Sabre

VIRTUAL
Developer
Bench

Sabre Red 360 SDK Basics

The Developer Experience Team

2021

8 September 2021

Presenters

Alexandre Meneghello
Software Engineering

Alex Xavier
Product Marketing

Avery Perkins
Product Marketing

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The Virtual Developer Bench

The Virtual Developer Bench is the developer's opportunity to engage *directly* with the Sabre experts who know their product inside and out.

By the end of today's call you will:

- Know how to install the SDK
- Understand IDE preparation
- Have viewed how to create a project structure for a Red App
- Know how to run/debug your project

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Red App ecosystem overview

Sabre Red 360 is responsible for an entire ecosystem involving Travel technology producers and consumers, through its innovative Red App Marketplace and Developer network.

Red App Certified Developer
Private Agency Developer
Developer Partner

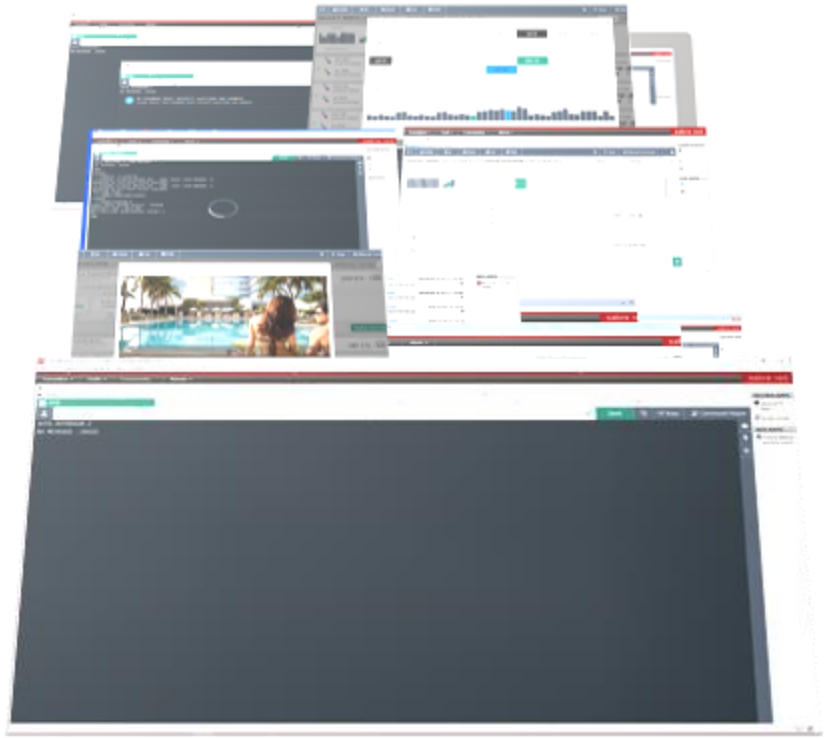
Red App Developers

Development Environment

Sabre Dev Studio

Apply → Build → Certify → Publish → Market

from Idea to Published Product



Travel Agencies
Travel Management companies
Leisure operators

sabre red app centre

Technology Providers

Sabre Red 360

Technology Consumer

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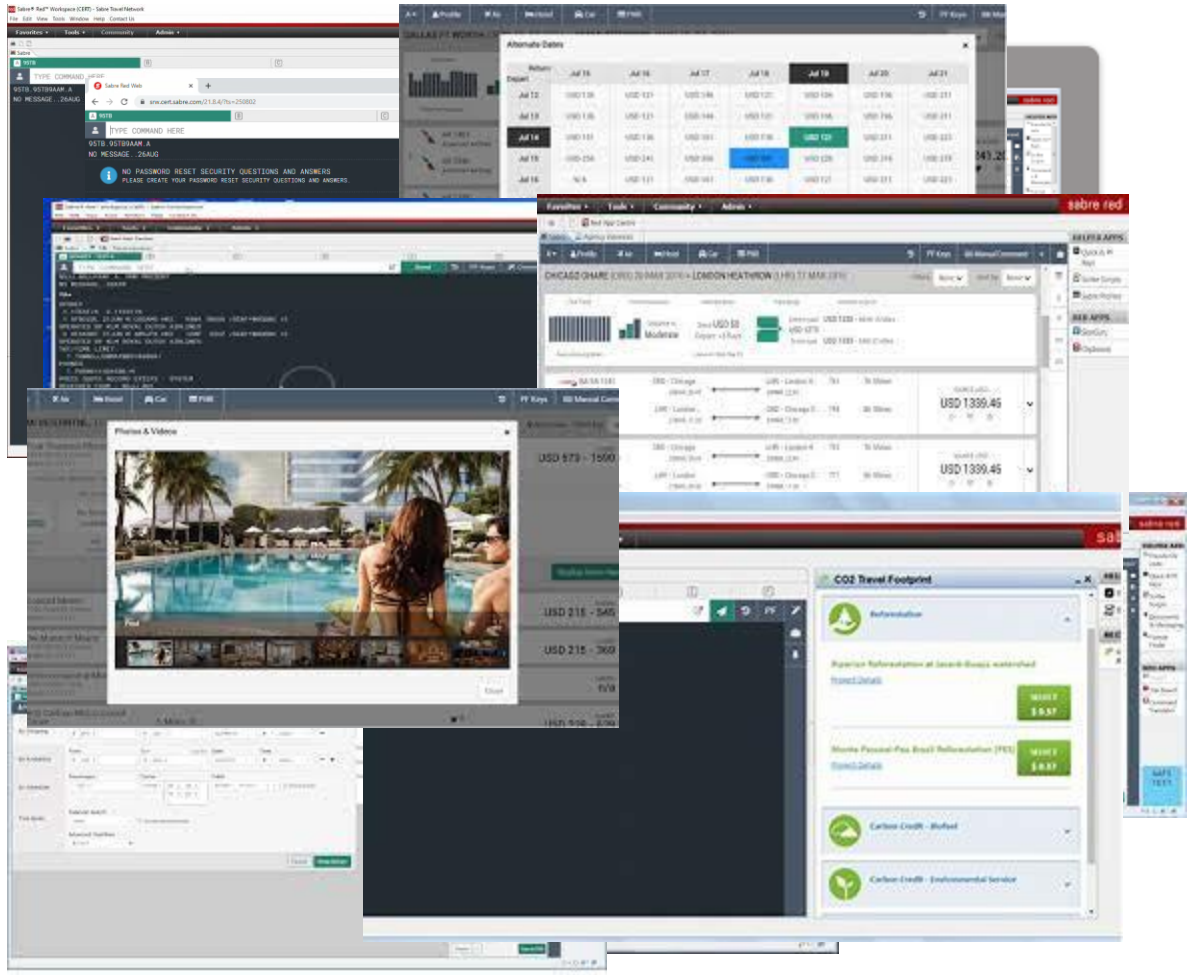
Sabre Red 360 & customization



- Sabre Red 360 is an end-to-end sales workspace that sells billions in Travel inventory each year. Could be extended by plugging-in modules, or Red Apps.
- Sabre Red 360 main View, offers advanced visualization capabilities and orchestration to the Travel consultant workflow.
  - Workflow, from Sabre Red 360 core, any business operation involved on **SHOP, SELL, BOOK, TICKET** and **MANAGE RESERVATIONS** of FLIGHT, HOTEL, CAR, CRUISE AND RAIL
- Sabre Red 360 Desktop App, it is a multi-windowed workspace application, which hosts Sabre's main view, complimentary user workflows and allows integrations with back-office and external systems.
- Sabre Red Web, Mobile design brings (big) part of sales workspace to Travel Consultant's pocket, or an internet café anywhere.

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Powered by Sabre Red Apps

- Red App bundles could be provisioned to SR 360 through Sabre Red App Centre, using 2 distinct business models:
  - **Private Agency Red Apps**, for limited distribution inside the Travel agency where it was developed.
  - **Public Red Apps,** which are marketed through Sabre Red App center, a B2B Marketplace where Travel agencies could navigate and purchase Red Apps from different Travel Technology and Content Providers.

Red App is a software package, created with Sabre Developer Tools, which bundles different extensions to customize Sabre Red 360 operations during runtime.

Contributions to the User Interface, allows Red Apps to customize the Travel consultant workspace (Eclipse) or the primary Sabre Red 360 UI (NGV)

Workflow extensions, allow access to data and controlled execution of Business operations done through Sabre Red 360 main View

Communication Foundations, allows Red Apps to access Sabre Red Platform Services exposed through SR 360 runtime and abroad

Tools and Utilities, general utility layer, allows to deal with user settings and authentication, as well integration with external systems and process automation.

UI Widgets	Workflow	Web Browser	Workspace
Pop-up Forms Tile Widgets Command button + Popover React bootstrap	Workflow panel button Nudge Add to PNR form Refresh PNR Interstitial	CrossWindow WebKit View / Editor Javascript API	View / Editor window Red App Sidebar Workspace Menus Notifications Modal Dialog

SHOP, PRICE	BOOK	SELL	TICKET	MANAGE
Air, Hotel Exchange Hotel Details	Air, Hotel	Air, Hotel, Car Passive Add	Air	End PNR Modify PNR Queue Place

Sabre APIs	Sabre Commands	Web	Active Listening	Security
REST and SOAP API calls GetReservation	Execute Sabre Commands LLS Calls - HOST	HTTP Request	EMU_RESPONSE Event EMU_COMMAND Service	SSO Assertions

Agency	Support	Workspace
Agent Profile Config Services	Log services First run	Plugin resources Internationalization

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Sabre Red 360 SDK

Red App Certified Developer
Private Agency Developer
Developer Partner

Red App Developers

Development Environment

Sabre Dev Studio

GitHub

Apply → Build → Certify → Publish → Market

from Idea to Published Product

- Who are Red App developers ?
  - A Red App Certified Provider is a developer who is approved by Sabre. After Sabre approves a developer and their proposal, the developer can start creating a Red App
  - Sabre developers require Sabre PCC + Agent ID on CERT environment, if you don't have access to the credentials, please contact your Agency Admin.
- Complete solution to build, test and publish Red Apps
  - Development Environment
    - Web SDK – Storefront, Web Developer Tools + Sabre Concierge Tool
    - Java SDK - Back office, workspace Integration, Eclipse IDE + Java
  - Idea to Product workflow
    - Apply, submit your idea
    - Build and Test source code using Development Environment
    - Generate Red App bundle and submit to beta test and certification process (CERT and PROD environments)
    - Publish your Red App on the B2B marketplace
    - Patch defects and release new features
  - Help and Resources, developer community
    - Sabre Red App Centre – upload , certify and publish your Red App. Manage user messaging and sales operations.
    - Sabre Dev Studio – developer portal, access SDK and API documentation, read blog posts and get up to date on latest Industry and Tech trends.
    - Online community – leverage Developer community, access sample codes and tutorials.

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Streamline Travel Consultant workflows

Travel Agencies
Travel Management companies
Leisure operators

- Who are potential users of a Red App ?
  - Travel agencies, travel management companies, leisure operators, over 370,000 agents in 135 countries, most of whom use the Sabre Red 360.
- How Red Apps are marketed and provisioned for end users?
  - The Sabre Red App Centre is the world's first B2B app marketplace for the travel industry, where agents can shop and request Red Apps that they can use to extend the capabilities of their Sabre Red 360
    - Shop Red Apps that extend the power of SR 360
    - Order your Red App in the Sabre Red App Centre
    - Activate your Red App using Admin tools

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Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project

- Developers Resources & Downloads
- Setup Development Environment
- Build and Debug Red Apps
- Bundle and Publishing procedures

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Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project

Developers Resources & Downloads	
☐ Visit **developer.sabre.com**, Sabre*'s Developers Portal*	
☐ Head over to Sabre Red 360 SDK section, familiarize wit*h* help, gett*ing started and resources areas*	
☐ Download the SDK	Released monthly, Available on PC / Mac platform Sabre Concierge Tool Sabre Red 360 Target Platform Red App Developer tools for Eclipse IDE Sample Red App projects SDK Documentation
☐ Download any other necessary tools and apps	Eclipse IDE, Java runtime Sabre *Red 360* CERT / PROD Installers *Chrome Browser with access to Developer Tools* *Visual Studio Code*

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Home page | Dev Studio

Home page | Dev Studio

https://developer.sabre.com/home

InPrivate

Sabre Dev Studio PRODUCT CATALOG GUIDES DISCOVER SUPPORT RELEASE NOTES BLOG Sign in

Product Type

View all Sabre APIs and SDKs, or filter to find what meets your needs.

REST APIs
SOAP APIs
SDK - Sabre Red 360
Widgets

Product Collections

View our Product Collections, carefully curated groups of APIs with you in mind.

Agency Sabre Basics
Airline Profiles Collection
Content Services for Lodging
Passenger Name Record
Hospitality Profile and Loyalty Management
Inspirational Search and Intelligence
Digital Connect Check-In
Cruise

Services

Check out how to leverage our APIs to create powerful solutions.

Air Availability Data
Hotel Descriptive Data Services
Data Services
Event Notification Services
Market Fare View

hat move the world

s and Services, Made Right.

In a Sabre minute

3.5K Messages sent to travelers

5.2K Hotel rooms shopped

$26K In booked revenue

Travel Agencies

Connect to the Sabre Platform with Travel Solutions APIs to create B2C or B2B travel applications. From a corporate travel portal to a web-based booking engine, cruise booking engine, or rental car reservation system, easily integrate content and services with high adaptability and reduced time-to-market. Travel agencies can select the products with the right business logic to meet their unique needs.

Online Travel Agencies

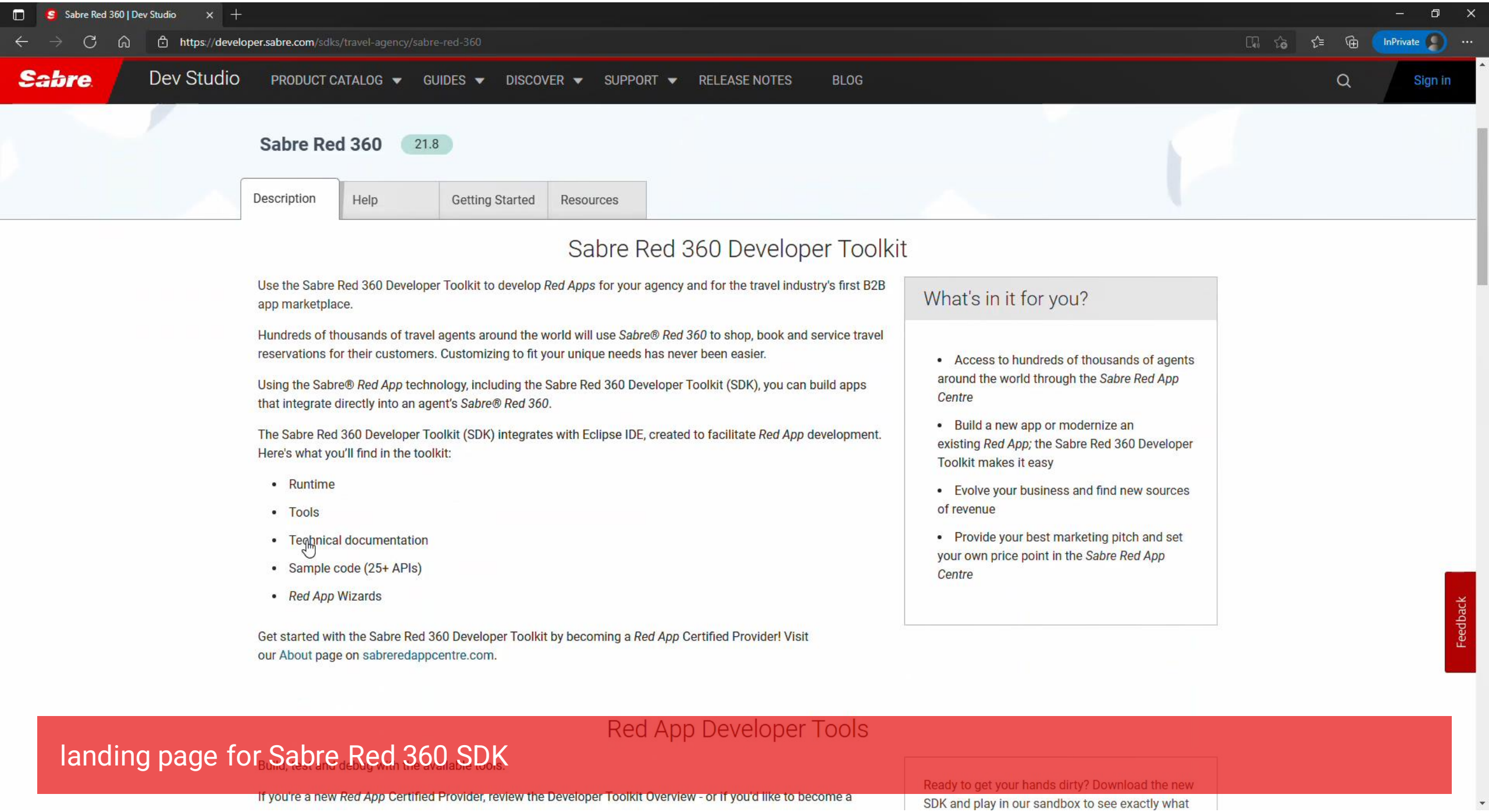
Search Engines

Booking Engines

Feedback

go to developer.sabre.com , choose PRODUCT CATALOG menu, then SDK - Sabre Red 360

https://developer.sabre.com/product-catalog?f%5B0%5D=product_type%3Asdk_reference



landing page for Sabre Red 360 SDK

Sabre Red 360 | Dev Studio

https://developer.sabre.com/sdks/travel-agency/sabre-red-360/help?page=sabre-red-360-software-development-kit-help

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Sabre Red 360 21.8

Description | Help | Getting Started | Resources

Sabre Red 360 Software Development Kit Help

Getting Started
- Getting Started with Red Apps
- Red Apps Developer FAQs
- Sabre SDK Runner Tool

Sabre Red Workspace Developer Toolkit Help
- Sabre Red Workspace Developer Toolkit Help Home
- How Do I Start?
- Red App Legal Disclaimers
- Red App Advisories
- Audience
- Red App Development using WebKit Browser
- Introducing Red Apps and the Developer Toolkit
- Red App Requirements and Standards
- Plug-in Projects
- Workbench or UI Elements
- Development Languages and Technologies

Search

Sabre Red 360 Software Development Kit Help

Release 21.8

August 2021

How do I start?

Feedback

access to online documentation

Waiting for developer.sabre.com...

Sabre Red 360 21.8

Description | Help | Getting Started | Resources

Getting Started with the Sabre Red 360 Software Developer Toolkit

Intro

Welcome to the Getting Started guide for the Sabre Red 360 Developer Toolkit, also known as **SR 360 SDK**. The objective of this guide is to give you a quick overview of the Sabre Red App ecosystem and development practices, as well guidance on prerequisites and installation to help you get ready.

Purpose of the Sabre Red 360 SDK

The purpose of the Developer Toolkit is to allow customization and build solutions for runtime integrations within Sabre Red's point-of-sale products and the Sabre Red platform (GDS). Sabre Red products, mainly **Sabre Red 360** and **Sabre Red Web**, are used by Travel Consultants in different business scenarios to fullfil different needs of serving the travel industry.

Who Is the Sabre Red 360 SDK For?

The intended audience for the SDK are Software Developers and software divisions inside the travel business industry who wish to plan, code, test, and deploy applications to the Sabre Red Marketplace, known as **Red App Developers**.

Feel free to check out some of our developer resources:

- Sabre's Developer Portal: DevStudio.
- Our online community: DevStudio Blog, Stack Overflow, YouTube Channel, DevStudio on GitHub.

everything you need to start creating Red Apps

Sabre Red App Centre

The **Sabre Red App Centre (RAC)** is the world's first B2B travel app marketplace, your one-stop shop to the Sabre Red point-of-sale product suite. RAC supports the Sabre Red

Feedback

Sabre Red 360 | Dev Studio

https://developer.sabre.com/sdks/travel-agency/sabre-red-360/resource

Sabre Dev Studio PRODUCT CATALOG GUIDES DISCOVER SUPPORT RELEASE NOTES BLOG Sign in

Sabre Red 360 21.8

Description | Help | Getting Started | Resources

Build, test, and debug with the tools listed below.

If you're a new *Red App* Certified Provider, review the Developer Toolkit Overview (or if you'd like to become a certified provider, visit the Sabre *Red App* Centre About page.

Before developing your app, please submit a proposal. To ensure you succeed in the Market Centre, we'll research that your idea is not currently in development.

Downloads

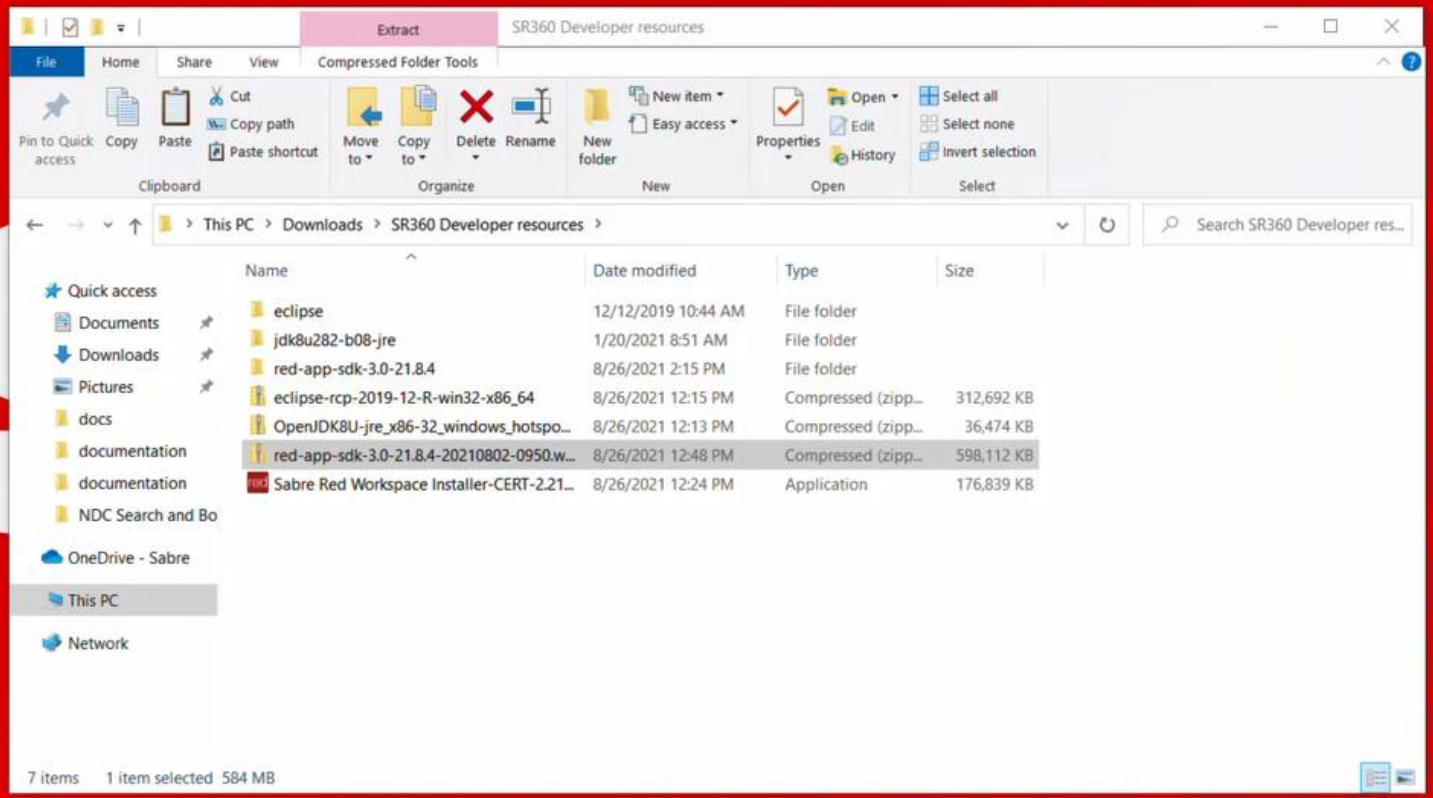
- Sabre Red 360 SDK 21.8
- Sabre Red 360 SDK macOS 21.8 BETA
- Sabre Red Web SDK 21.8
- Sabre Red Web SDK macOS 21.8 BETA
- Java Development Kit 8 (AdoptOpenJDK 8u282) for Windows 32-bit
- Java Development Kit 8 (AdoptOpenJDK 8u282) for macOS
- Eclipse Download for Windows
- Eclipse Download for macOS
- Sabre Red 360 Certification Environment
- Sabre Red 360 Production Environment

Developer Resources

Sabre Red App Quick Reference Guide

Feedback

Navigate to Red App developer resources page, download SDK distribution file and any pre-requisite according to your platform, PC or Mac.



Prepare a folder with downloaded resource files, then let’s begin installing Development environment…

2:15 PM
8/26/2021

Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project

Developers Resources & Downloads

Setup Development Environment

Build and Debug Red Apps

Bundle and Publishing procedures

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Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project

Setup Development Environment

- **Java SDK + Eclipse IDE,** a framework used to build Red Apps which are based on the Eclipse RCP specification, coded using Java language and extensions to the Eclipse workspace manager.

- **Web SDK,** framework used to build Web Modules, or Web Red Apps, which are customizations that applies to Sabre Red 360 Next Generation View (NGV)

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Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project

Setup Development Environment

Java SDK + Eclipse IDE

Unpack and run Eclipse IDE
Configure Target Platform
Configure Eclipse run/debug settings
Configure Red App Tools

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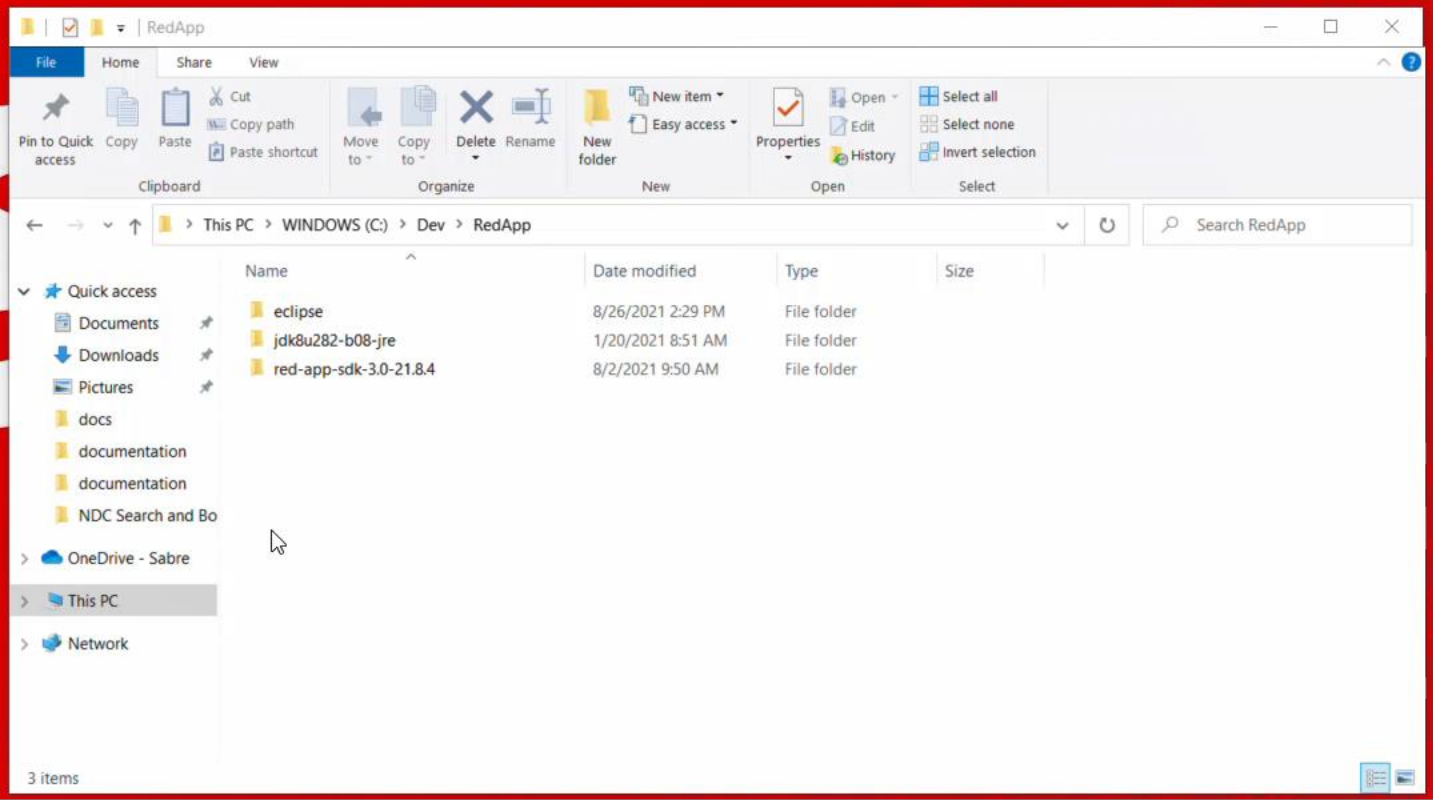

create a folder for Eclipse IDE and unpack downloaded file

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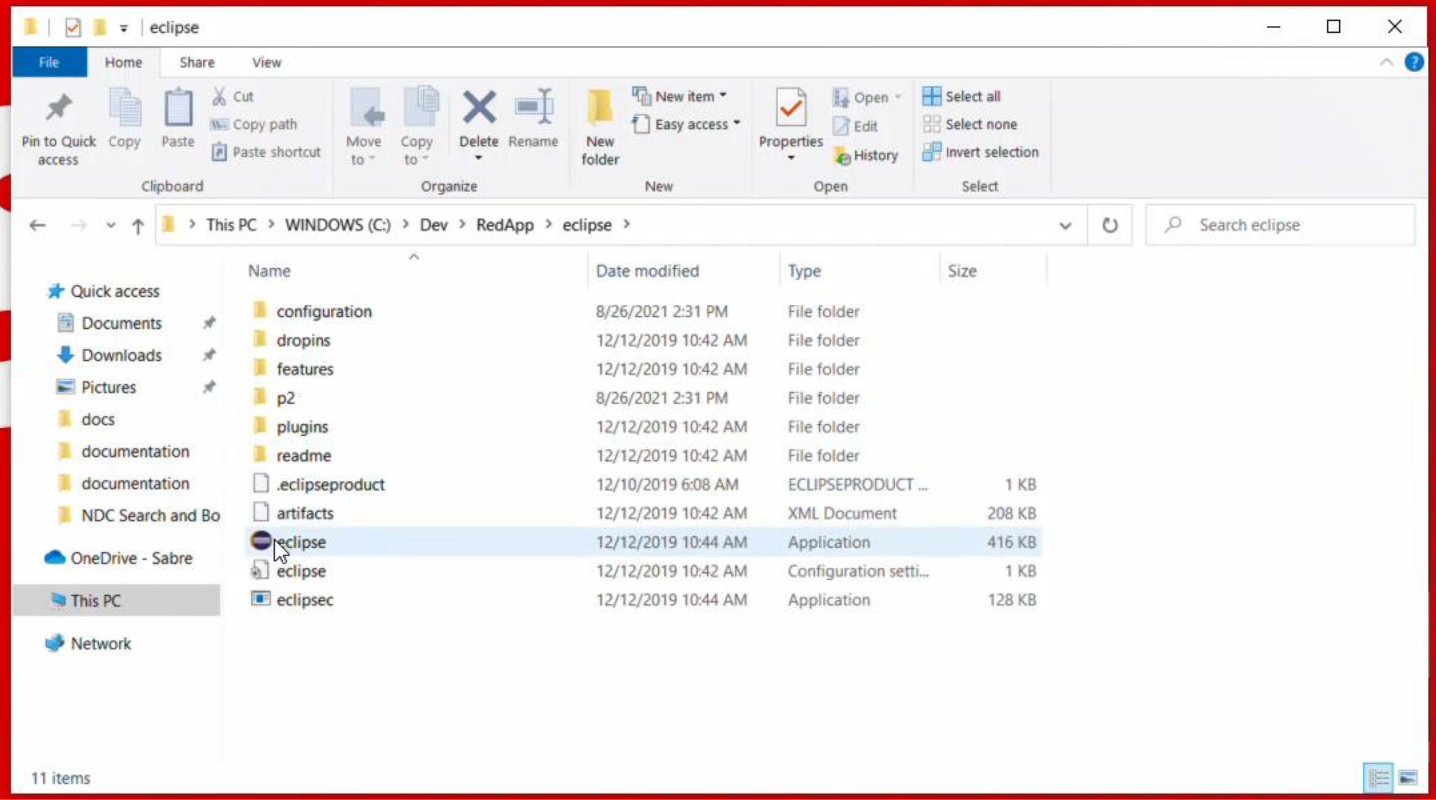
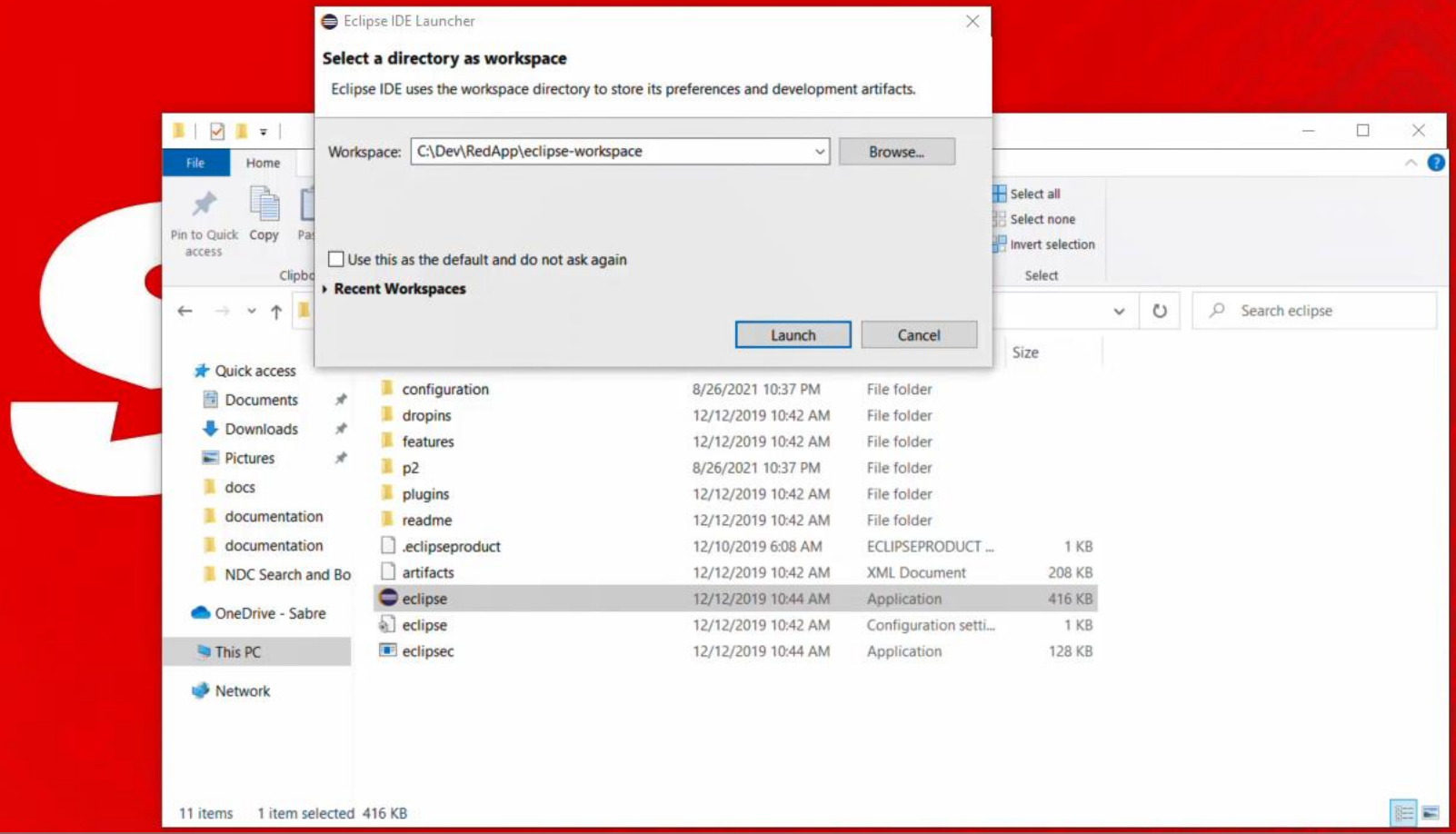
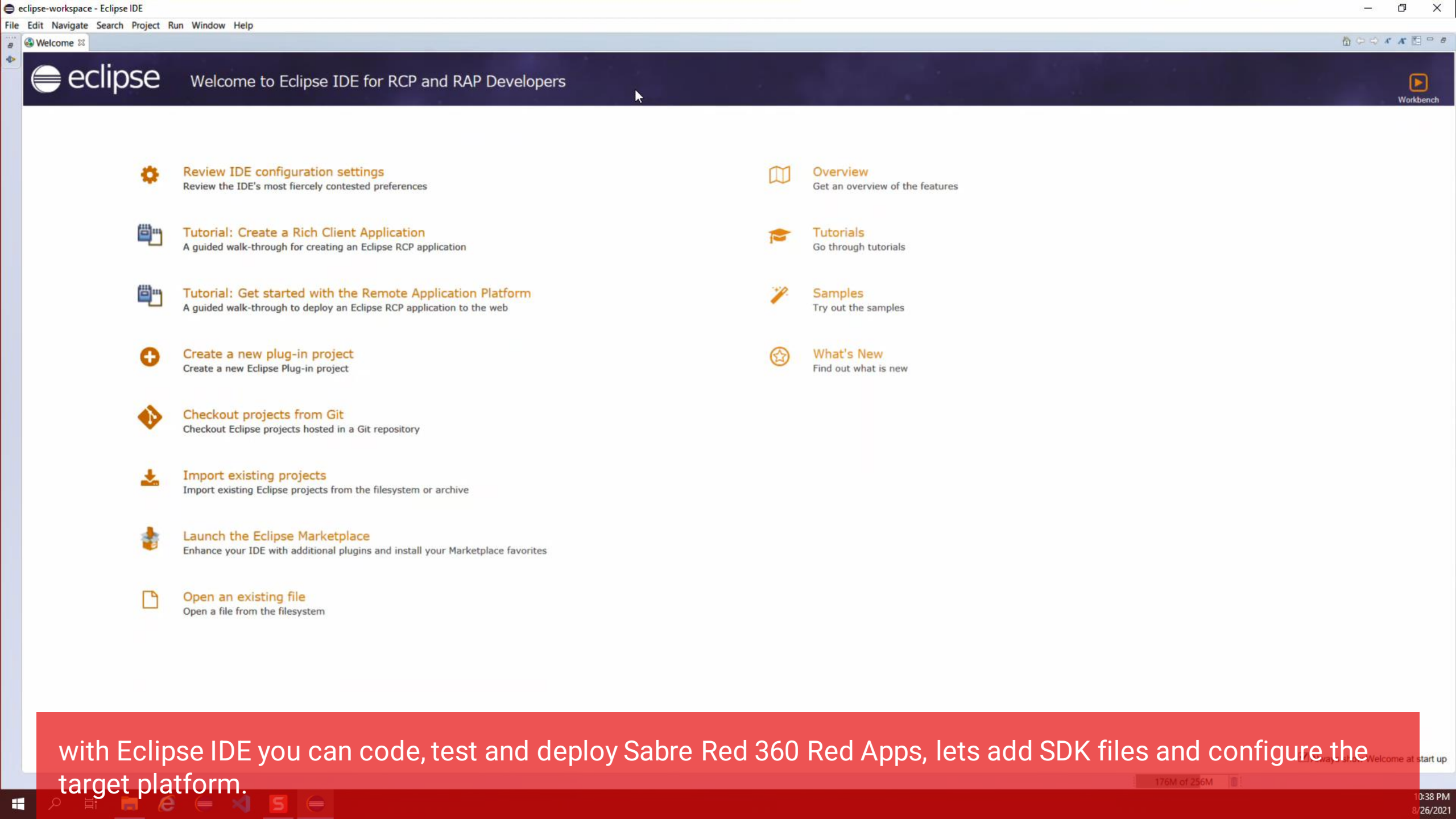
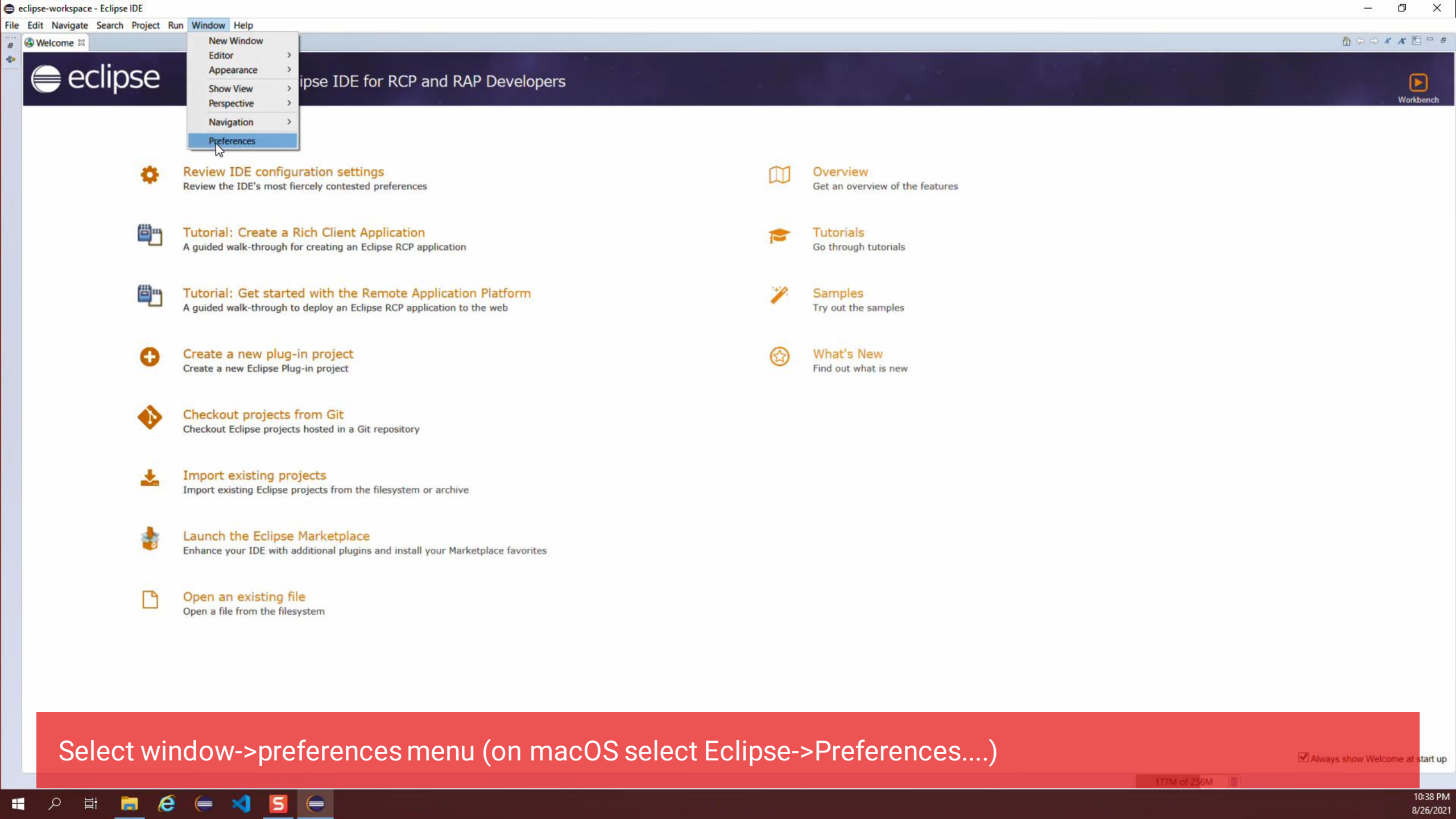


Eclipse IDE does not require installation, after unpacked just locate and run the application



Define a folder where Eclipse IDE will save your development workspace, then hit Launch to start the IDE.


eclipse-workspace - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Welcome
eclipse
Welcome to Eclipse IDE for RCP and RAP Developers
Workbench
Review IDE configuration settings
Review the IDE's most fiercely contested preferences
Tutorial: Create a Rich Client Application
A guided walk-through for creating an Eclipse RCP application
Tutorial: Get started with the Remote Application Platform
A guided walk-through to deploy an Eclipse RCP application to the web
Create a new plug-in project
Create a new Eclipse Plug-in project
Checkout projects from Git
Checkout Eclipse projects hosted in a Git repository
Import existing projects
Import existing Eclipse projects from the filesystem or archive
Launch the Eclipse Marketplace
Enhance your IDE with additional plugins and install your Marketplace favorites
Open an existing file
Open a file from the filesystem
Overview
Get an overview of the features
Tutorials
Go through tutorials
Samples
Try out the samples
What's New
Find out what is new
with Eclipse IDE you can code, test and deploy Sabre Red 360 Red Apps, lets add SDK files and configure the target platform.
176M of 256M
10:38 PM
8/26/2021



Select window->preferences menu (on macOS select Eclipse->Preferences....)

eclipse-workspace - Eclipse IDE

File Edit Navigate Search Project Run Window Help

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eclipse Welcome to Eclipse IDE for RCP and RAP Developers

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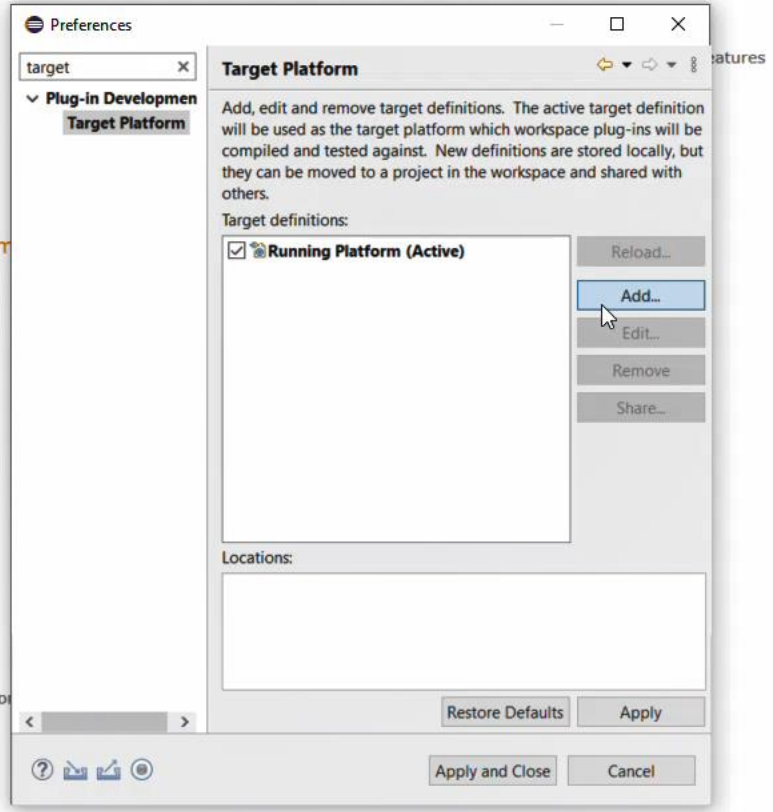
Import existing projects
Import existing Eclipse projects from the filesystem or archive

Launch the Eclipse Marketplace
Enhance your IDE with additional plugins and install your Marketplace favo

Open an existing file
Open a file from the filesystem



You can type Target platform on the filter field on navigate to plug-in Development->Target Platform section, then under Target definitions section select Add... button to create a new definition

Show Welcome at start up

209M of 256M

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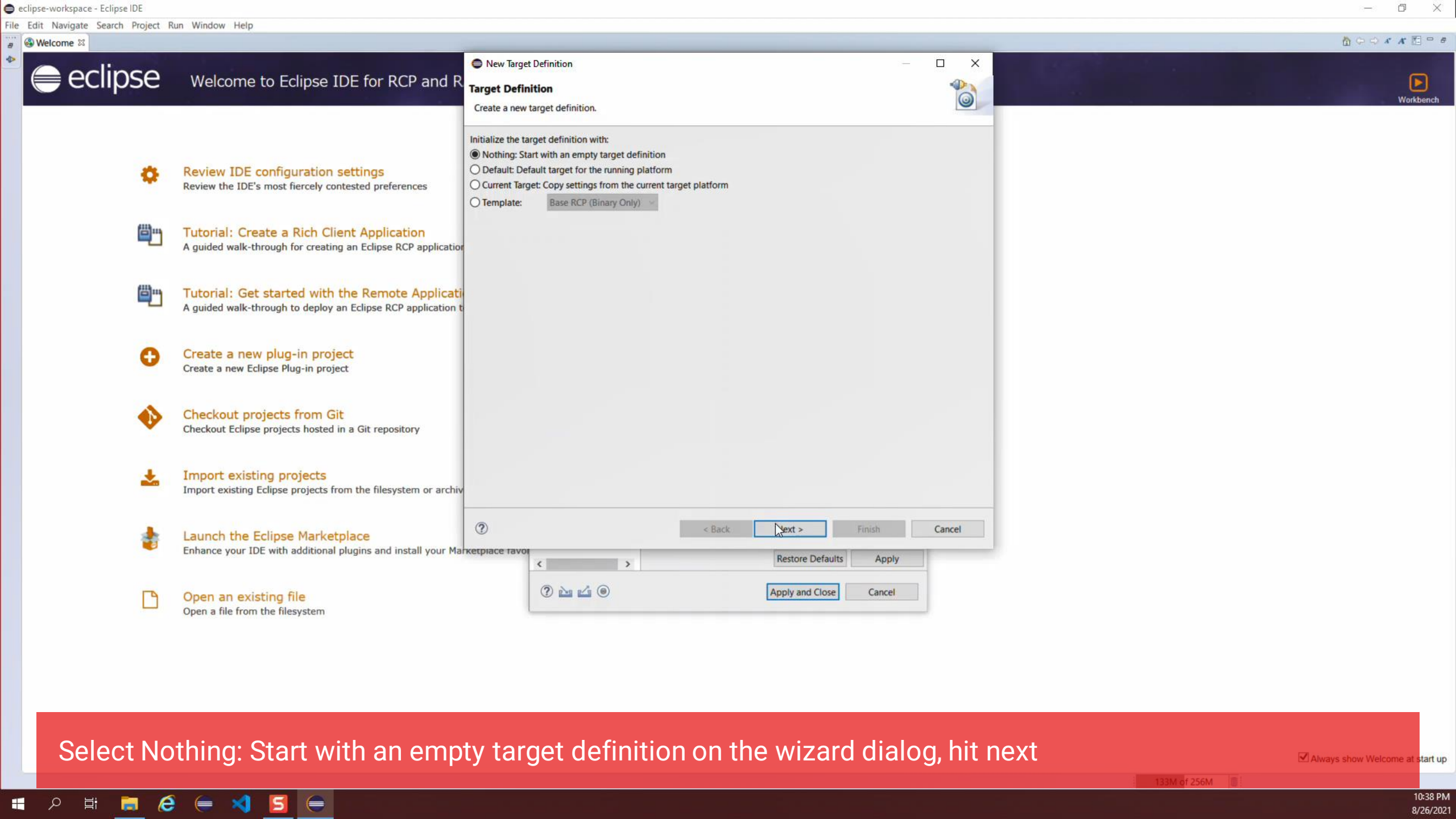
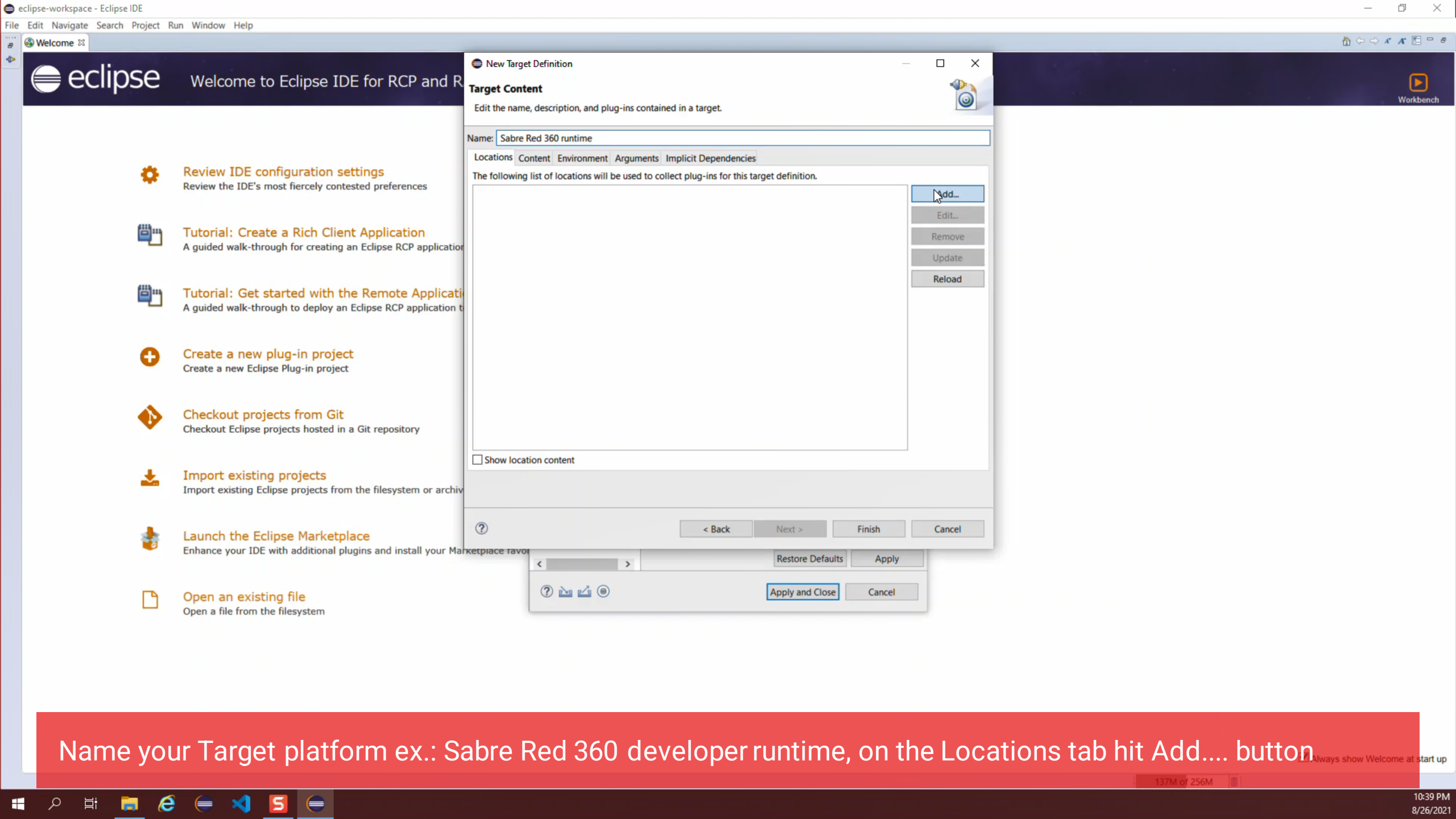
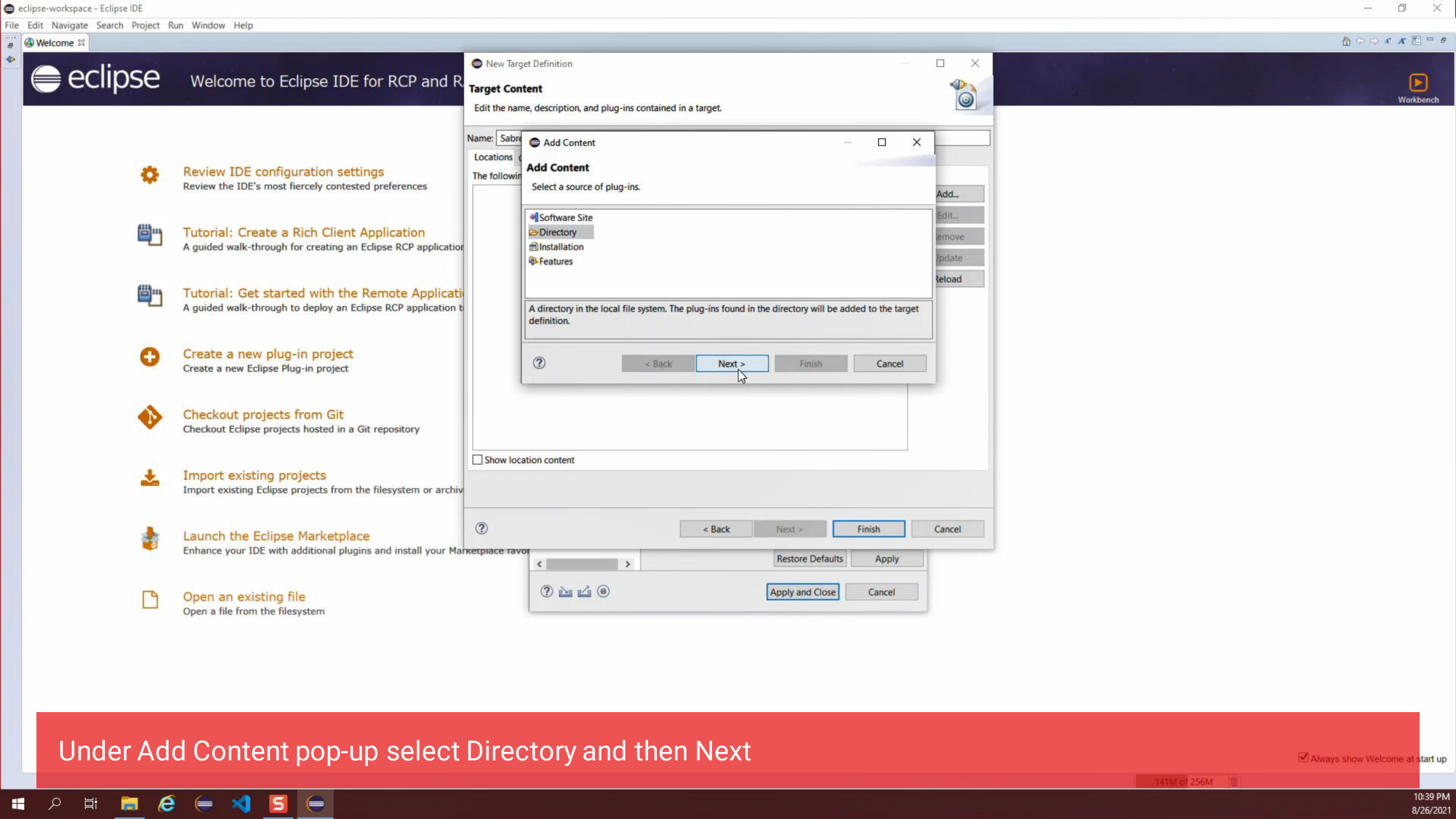
8/26/2021



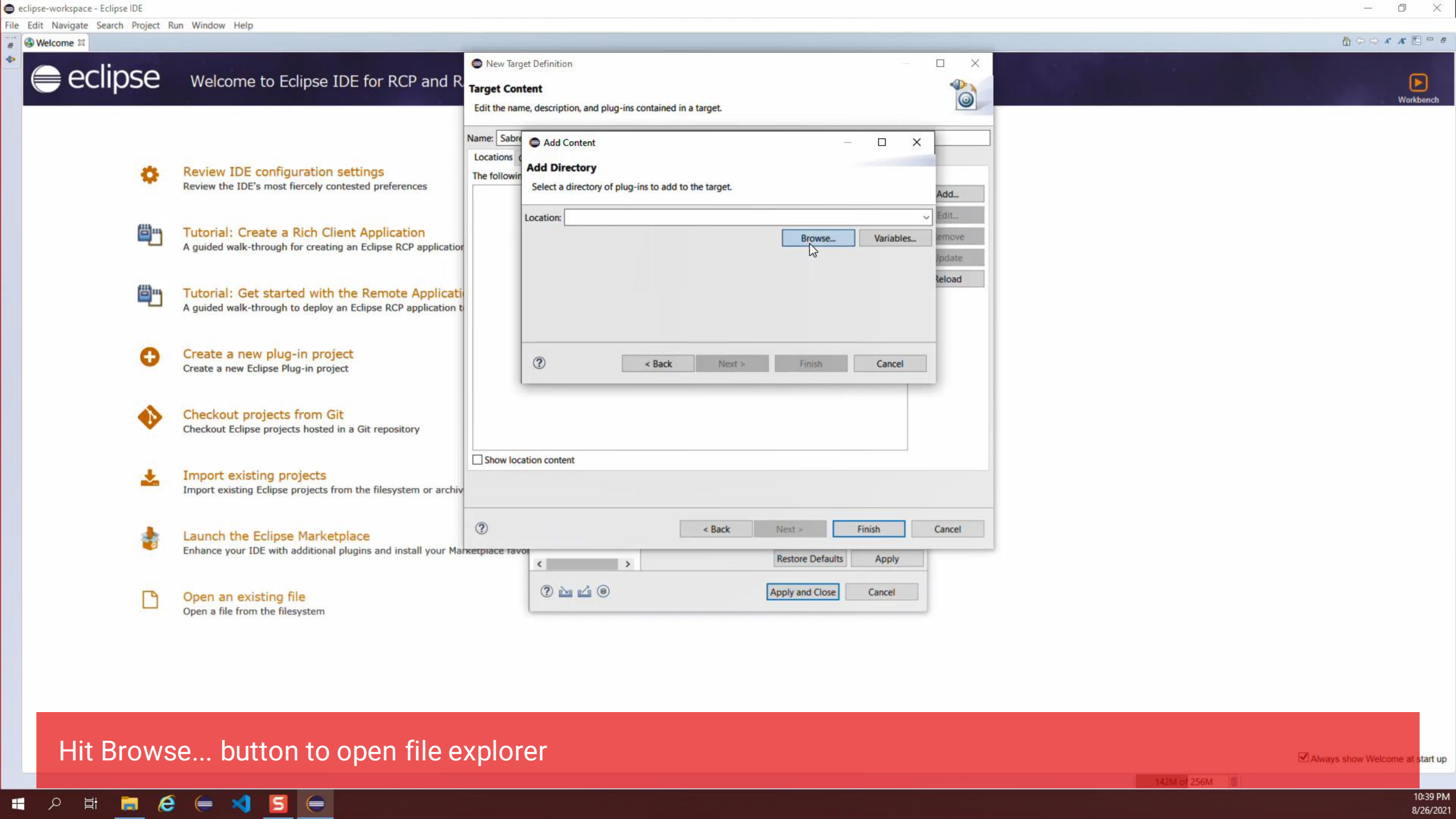
Select Nothing: Start with an empty target definition on the wizard dialog, hit next



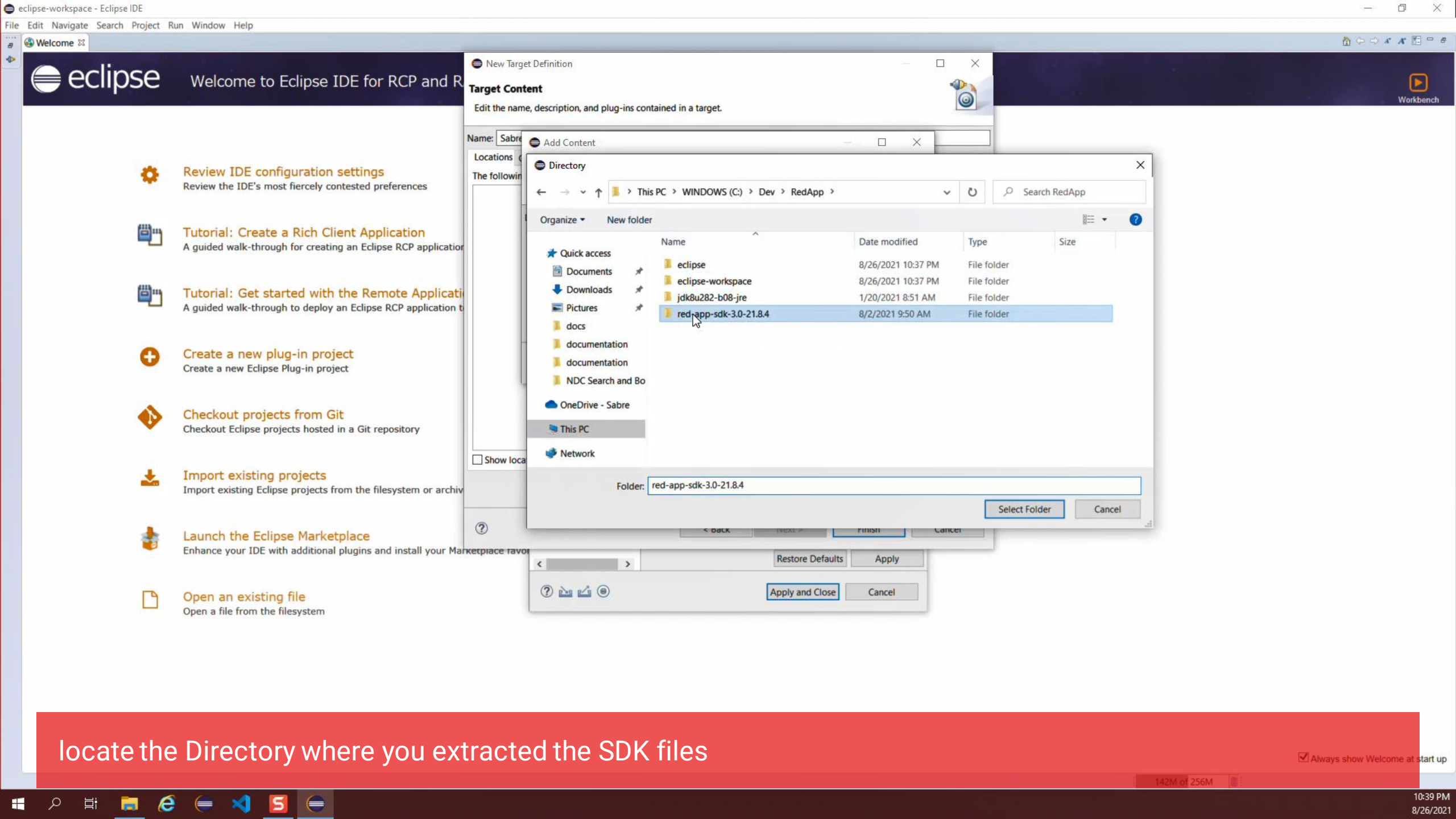
Name your Target platform ex.: Sabre Red 360 developer runtime, on the Locations tab hit Add.... button



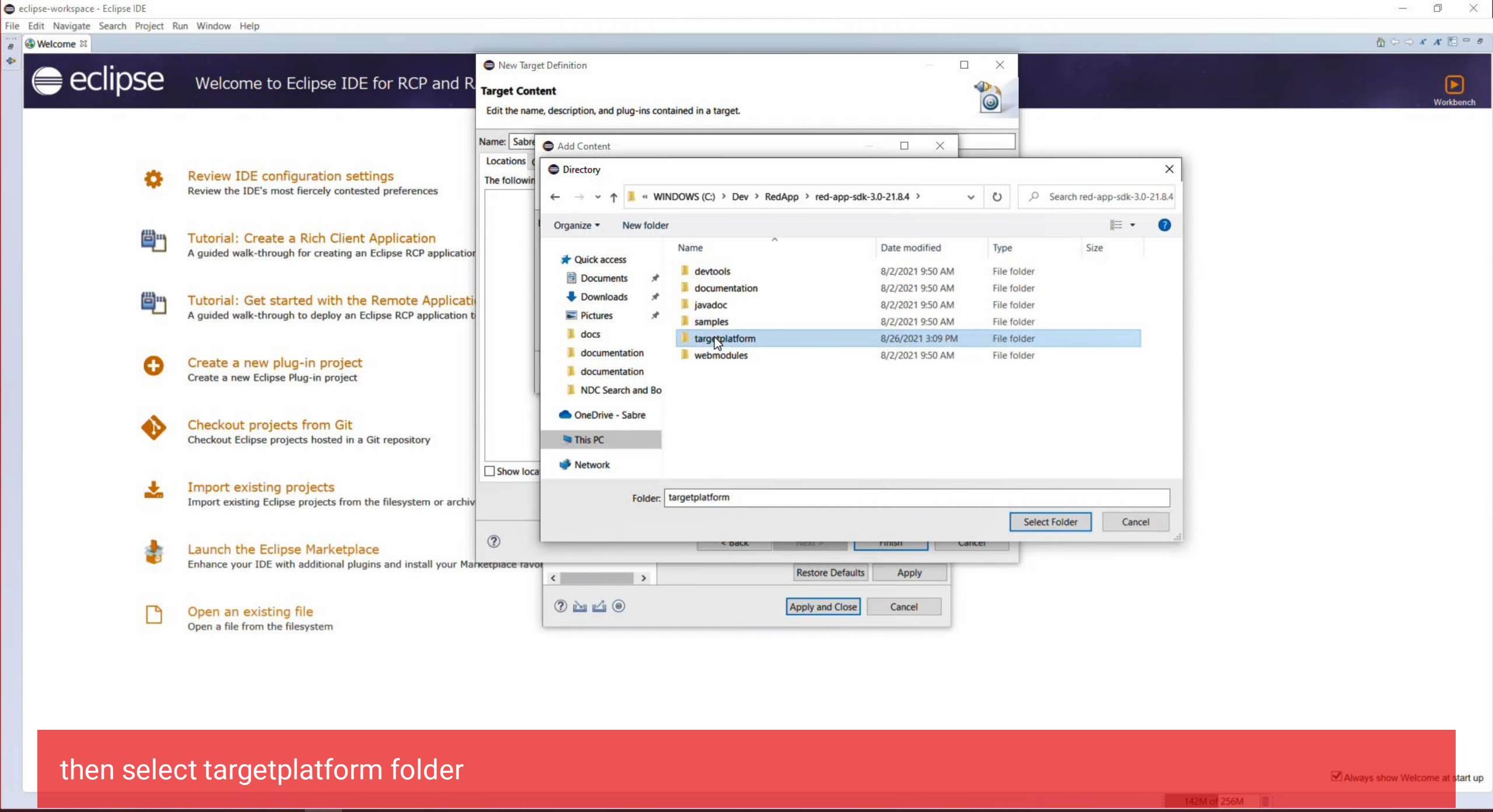
Under Add Content pop-up select Directory and then Next



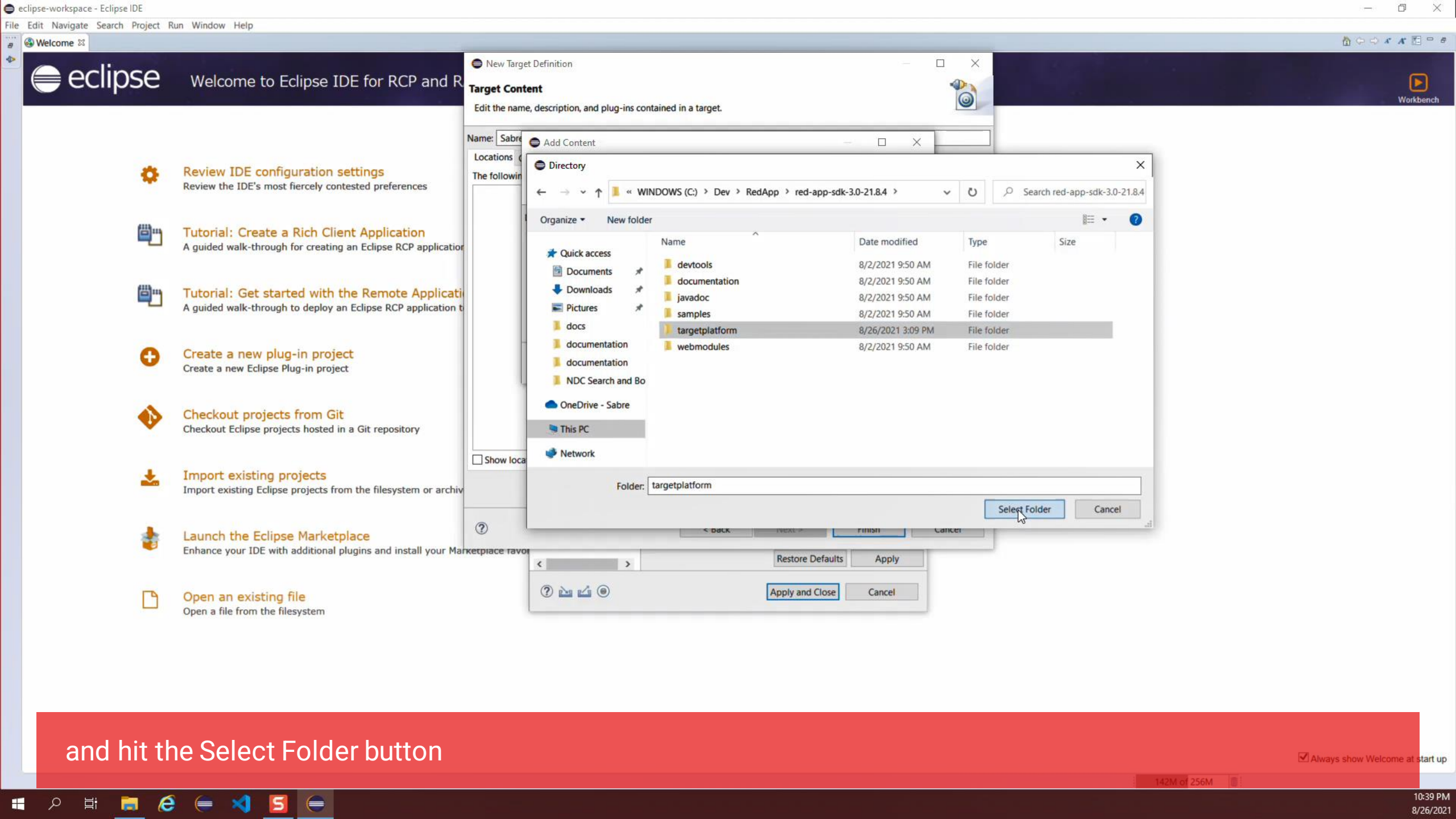
Hit Browse... button to open file explorer



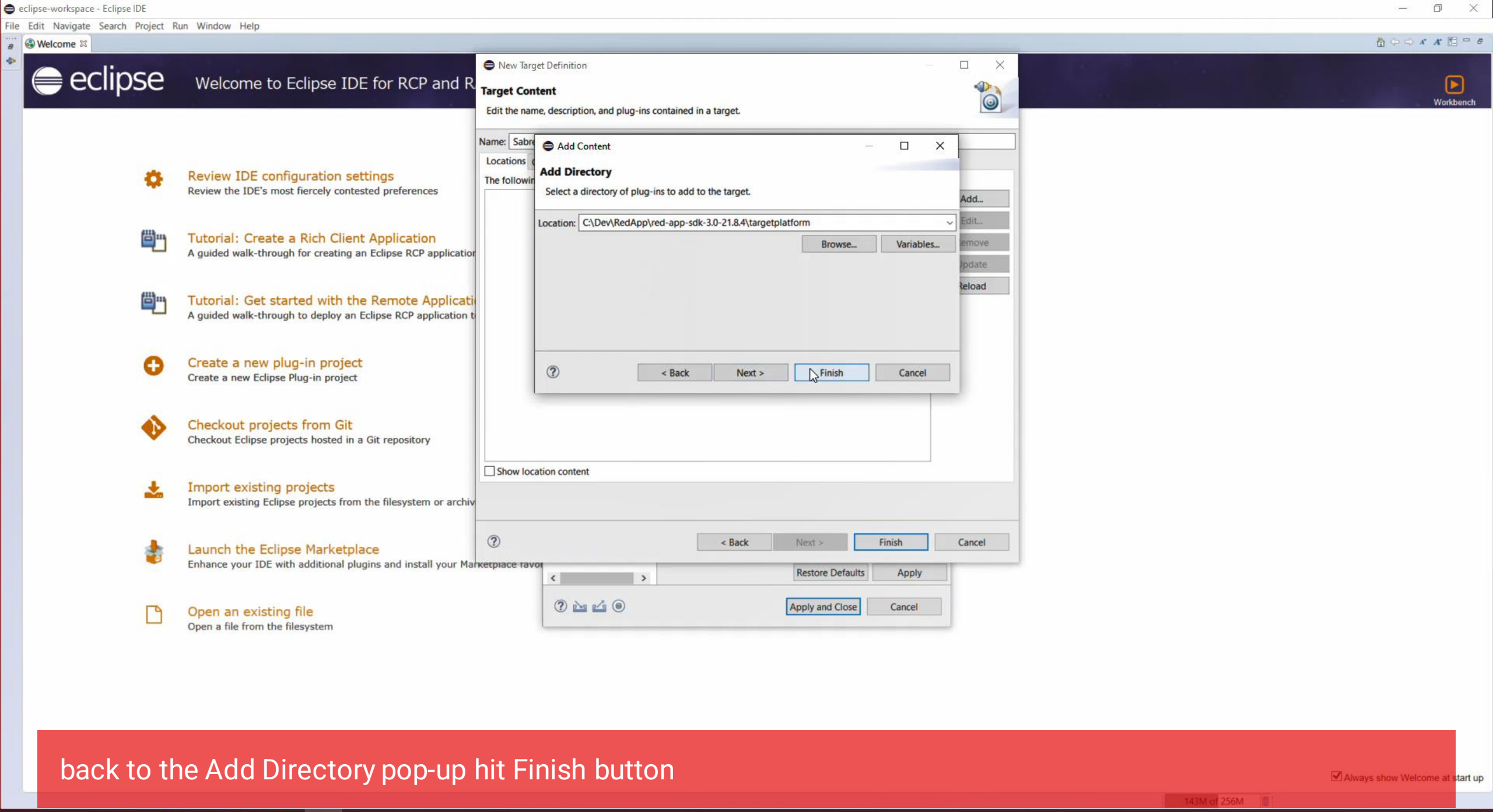
locate the Directory where you extracted the SDK files



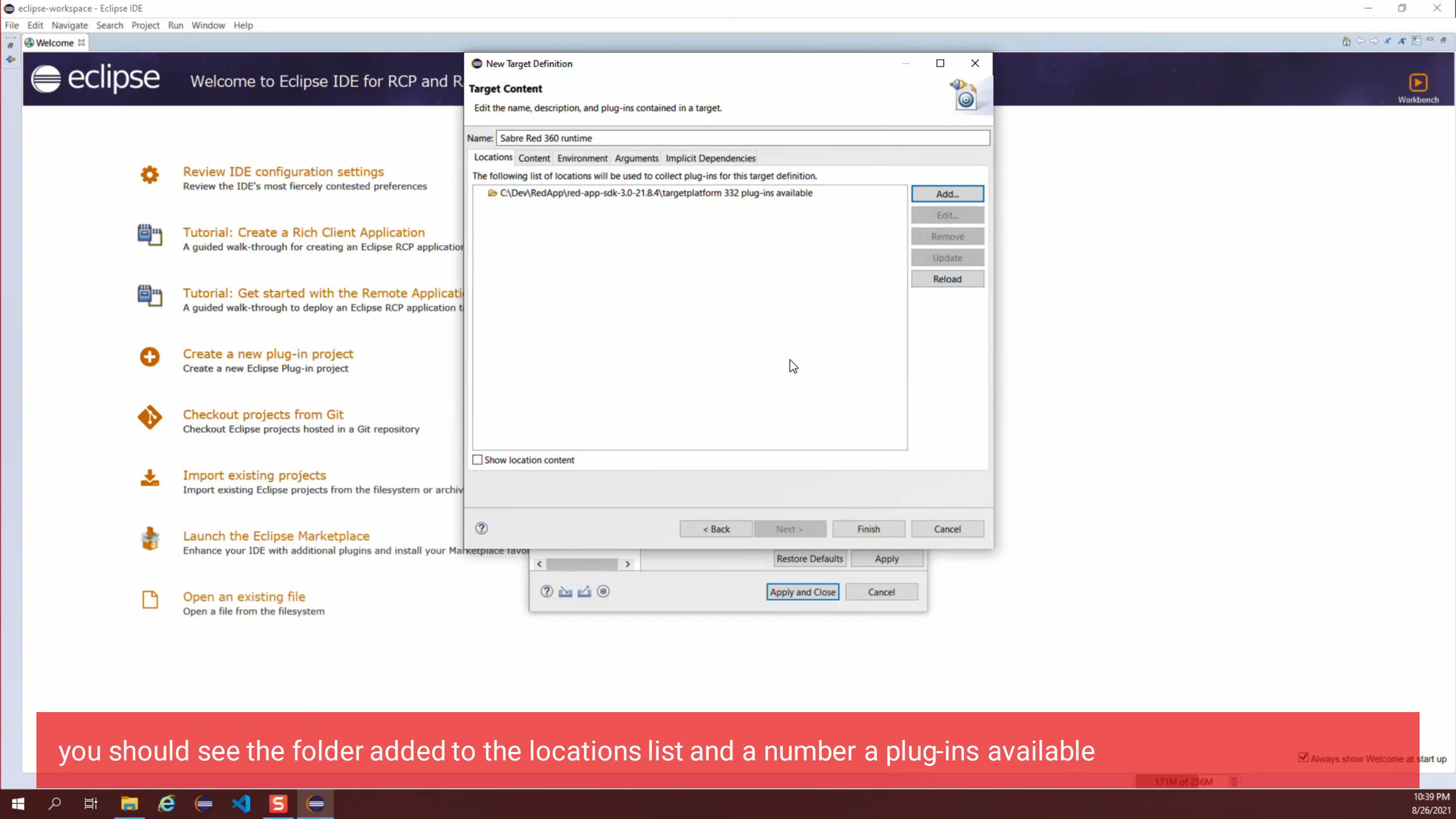
then select targetplatform folder



and hit the Select Folder button



back to the Add Directory pop-up hit Finish button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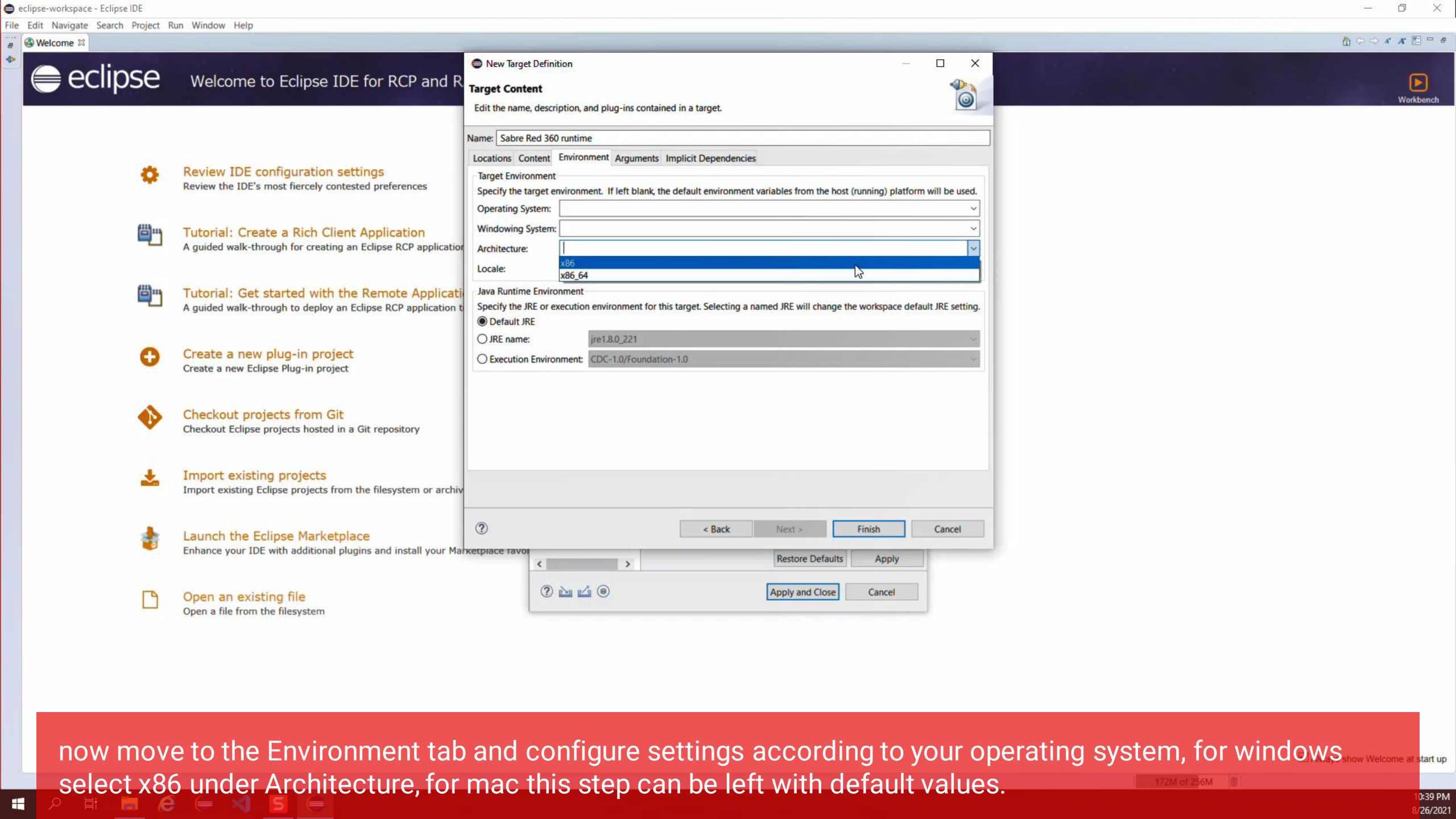
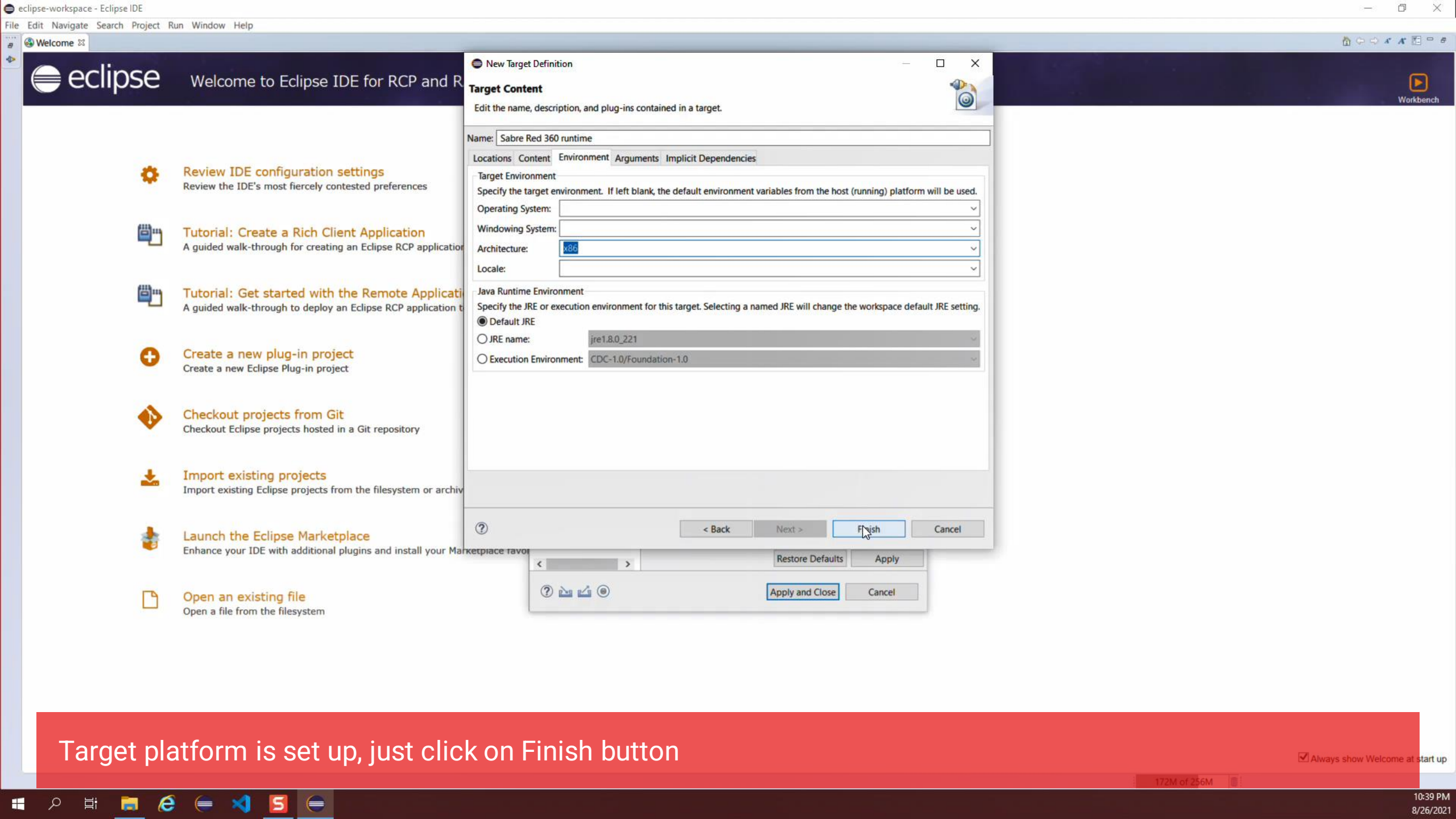
Enhance your IDE with additional plugins and install your Marketplace favor
Open an existing file
Open a file from the filesystem
New Target Definition
Target Content
Edit the name, description, and plug-ins contained in a target.
Name: Sabre Red 360 runtime
Locations Content Environment Arguments Implicit Dependencies
The following list of locations will be used to collect plug-ins for this target definition.
C:\Dev\RedApp\red-app-sdk-3.0-21.8.4\targetplatform 332 plug-ins available
Add...
Edit...
Remove
Update
Reload
Show location content
< Back
Next >
Finish
Cancel
Restore Defaults
Apply
Apply and Close
Cancel
you should see the folder added to the locations list and a number a plug-ins available
Always show Welcome at start up
171M of 256M
10:39 PM
8/26/2021



now move to the Environment tab and configure settings according to your operating system, for windows select x86 under Architecture, for mac this step can be left with default values.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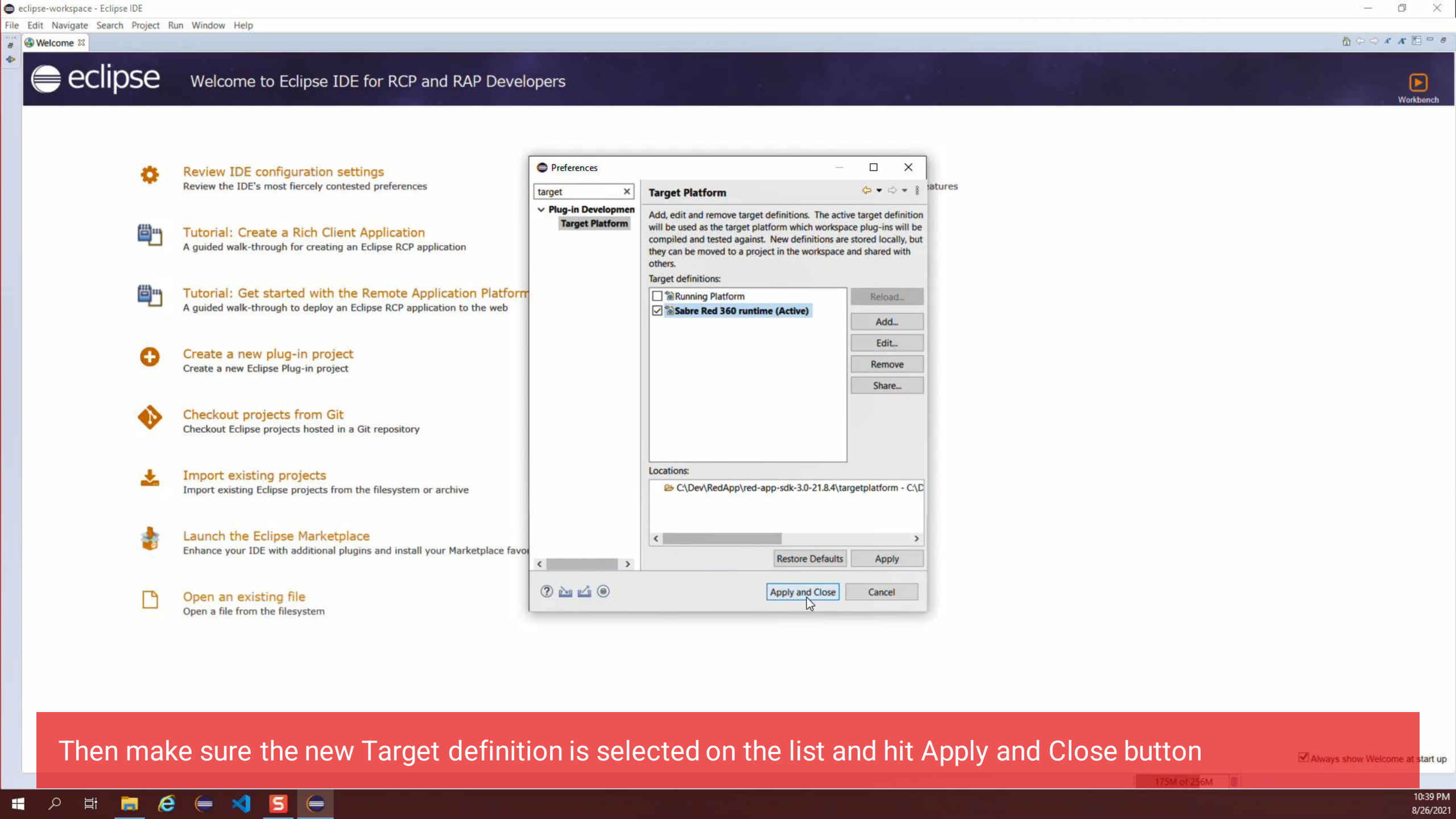
Open a file from the filesystem
New Target Definition
Target Content
Edit the name, description, and plug-ins contained in a target.
Name: Sabre Red 360 runtime
Locations Content Environment Arguments Implicit Dependencies
Target Environment
Specify the target environment. If left blank, the default environment variables from the host (running) platform will be used.
Operating System:
Windowing System:
Architecture: x86
Locale:
Java Runtime Environment
Specify the JRE or execution environment for this target. Selecting a named JRE will change the workspace default JRE setting.
Default JRE
JRE name: jre1.8.0_221
Execution Environment: CDC-1.0/Foundation-1.0
< Back
Next >
Finish
Cancel
Restore Defaults
Apply
Apply and Close
Cancel
Always show Welcome at start up
172M of 256M
Target platform is set up, just click on Finish button
10:39 PM
8/26/2021


eclipse-workspace - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Welcome
eclipse
Welcome to Eclipse IDE for RCP and RAP Developers
Workbench
Review IDE configuration settings
Review the IDE's most fiercely contested preferences
Tutorial: Create a Rich Client Application
A guided walk-through for creating an Eclipse RCP application
Tutorial: Get started with the Remote Application Platform
A guided walk-through to deploy an Eclipse RCP application to the web
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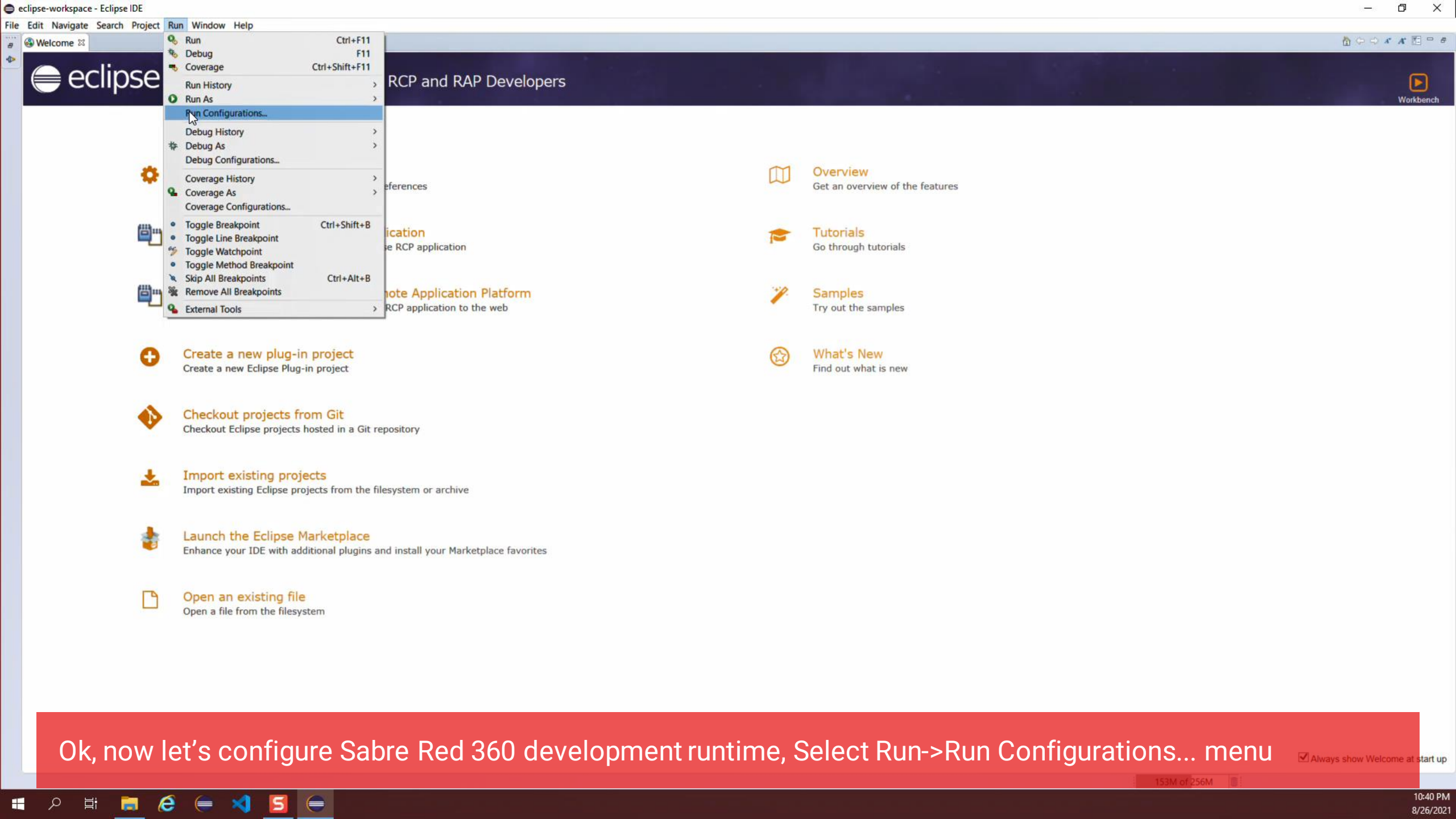
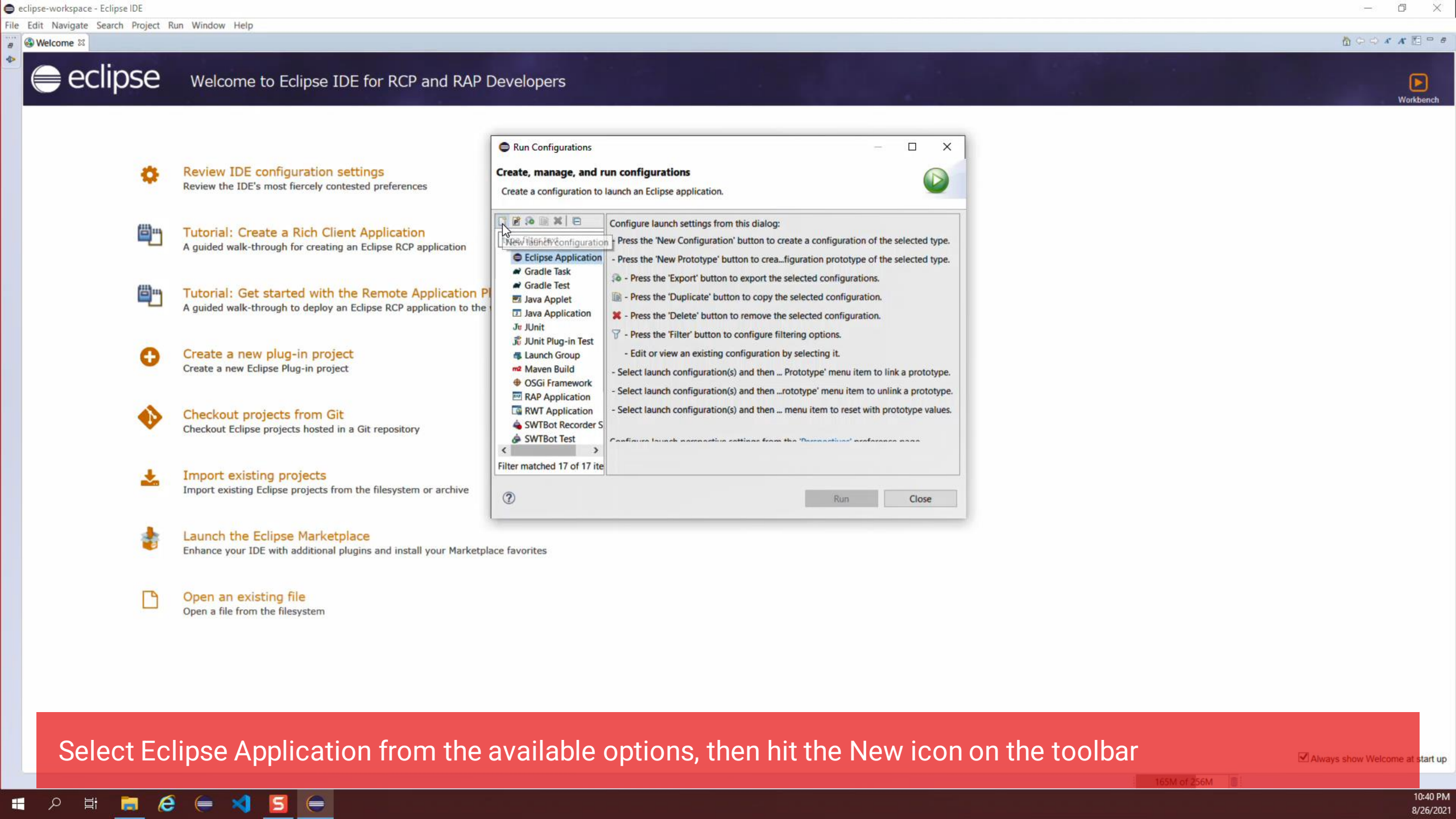
Launch the Eclipse Marketplace
Enhance your IDE with additional plugins and install your Marketplace favo
Open an existing file
Open a file from the filesystem
Preferences
target
Plug-in Developmen
Target Platform
Target Platform
Add, edit and remove target definitions. The active target definition will be used as the target platform which workspace plug-ins will be compiled and tested against. New definitions are stored locally, but they can be moved to a project in the workspace and shared with others.
Target definitions:
Running Platform
Sabre Red 360 runtime (Active)
Reload...
Add...
Edit...
Remove
Share...
Locations:
C:\Dev\RedApp\red-app-sdk-3.0-21.8.4\targetplatform - C:\D
Restore Defaults
Apply
Apply and Close
Cancel
Then make sure the new Target definition is selected on the list and hit Apply and Close button
Always show Welcome at start up
175M of 256M
10:39 PM
8/26/2021



Ok, now let’s configure Sabre Red 360 development runtime, Select Run->Run Configurations... menu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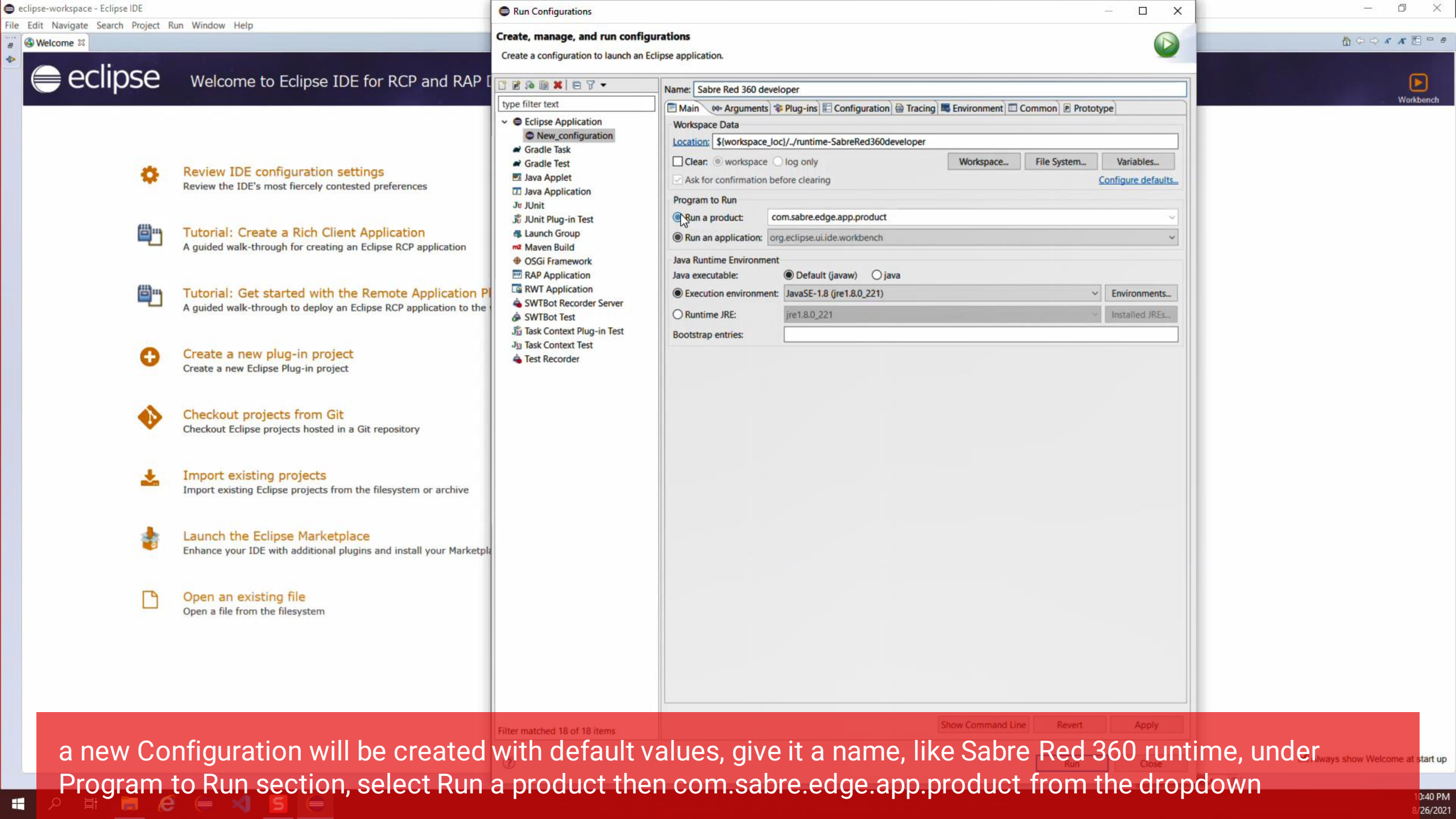
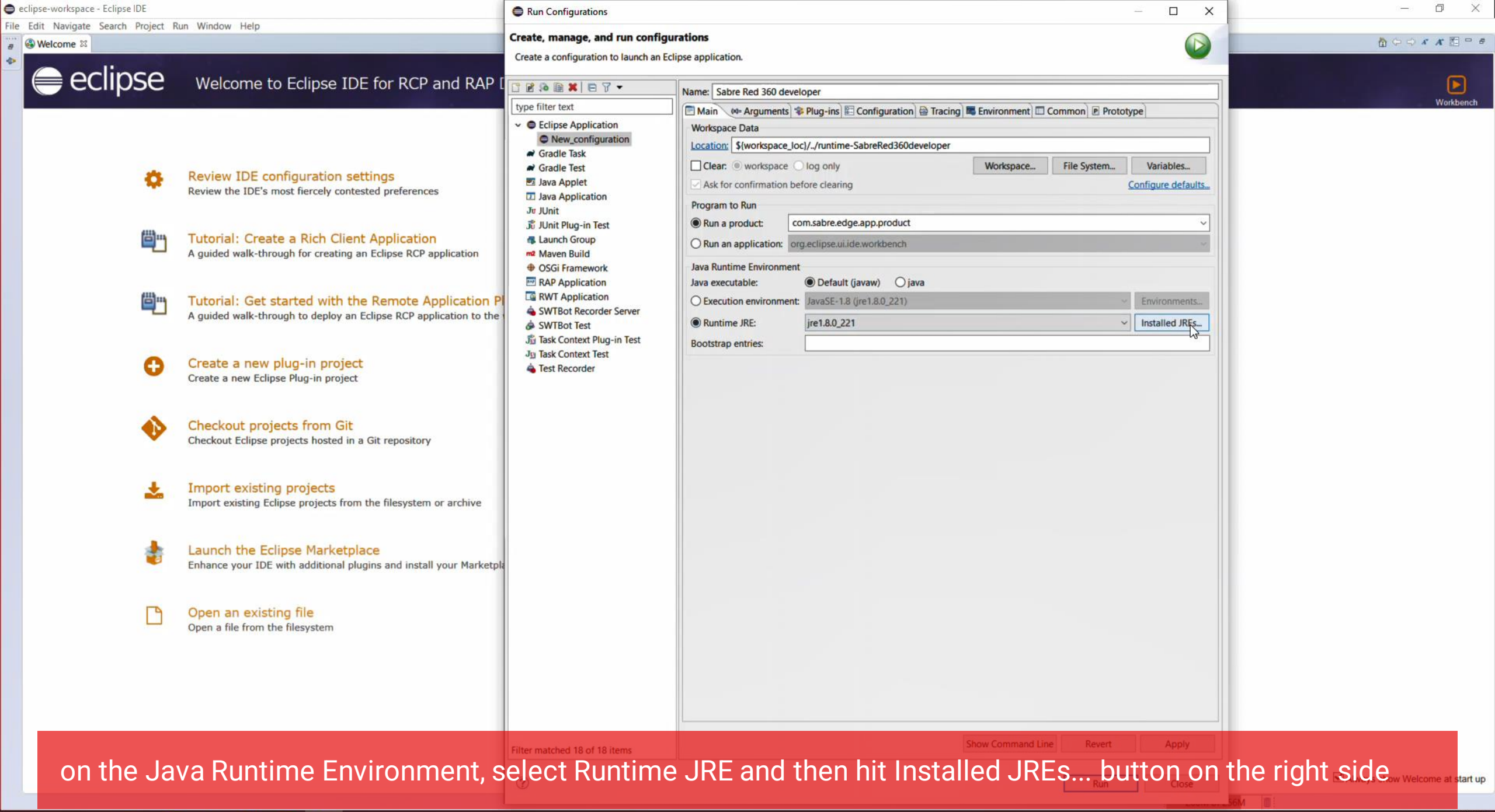
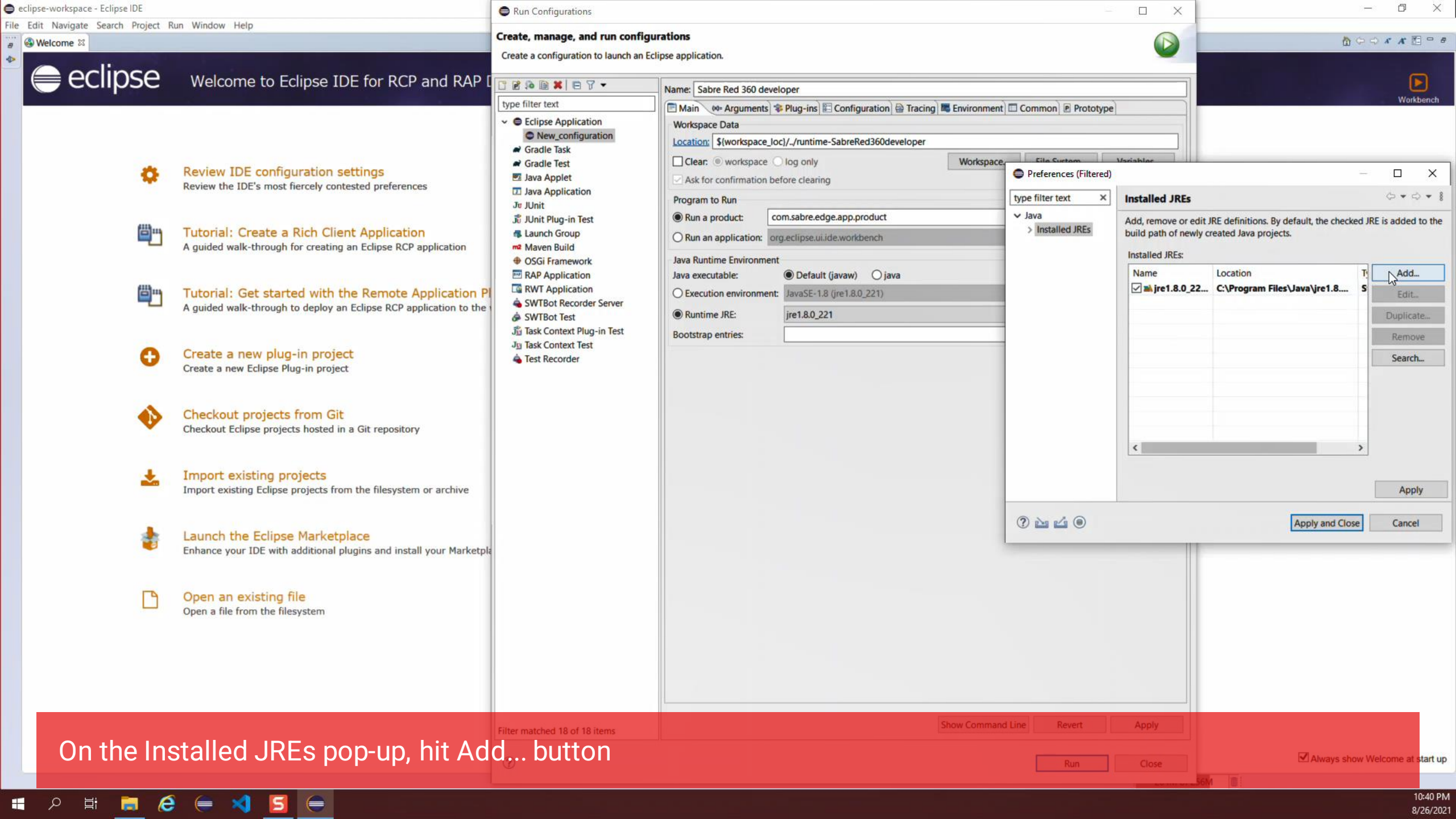
New launch configuration
Eclipse Application
Gradle Task
Gradle Test
Java Applet
Java Application
JUnit
JUnit Plug-in Test
Launch Group
Maven Build
OSGi Framework
RAP Application
RWT Application
SWTBot Recorder S
SWTBot Test
Filter matched 17 of 17 ite
Configure launch settings from this dialog:
- Press the 'New Configuration' button to create a configuration of the selected type.
- Press the 'New Prototype' button to crea...figuration prototype of the selected type.
- Press the 'Export' button to export the selected configurations.
- Press the 'Duplicate' button to copy the selected configuration.
- Press the 'Delete' button to remove the selected configuration.
- Press the 'Filter' button to configure filtering options.
- Edit or view an existing configuration by selecting it.
- Select launch configuration(s) and then ... Prototype' menu item to link a prototype.
- Select launch configuration(s) and then ...rototype' menu item to unlink a prototype.
- Select launch configuration(s) and then ... menu item to reset with prototype values.
Run
Close
Select Eclipse Application from the available options, then hit the New icon on the toolbar
Always show Welcome at start up
165M of 256M
10:40 PM
8/26/2021



a new Configuration will be created with default values, give it a name, like Sabre Red 360 runtime, under Program to Run section, select Run a product then com.sabre.edge.app.product from the dropdown



on the Java Runtime Environment, select Runtime JRE and then hit Installed JREs... button on the right side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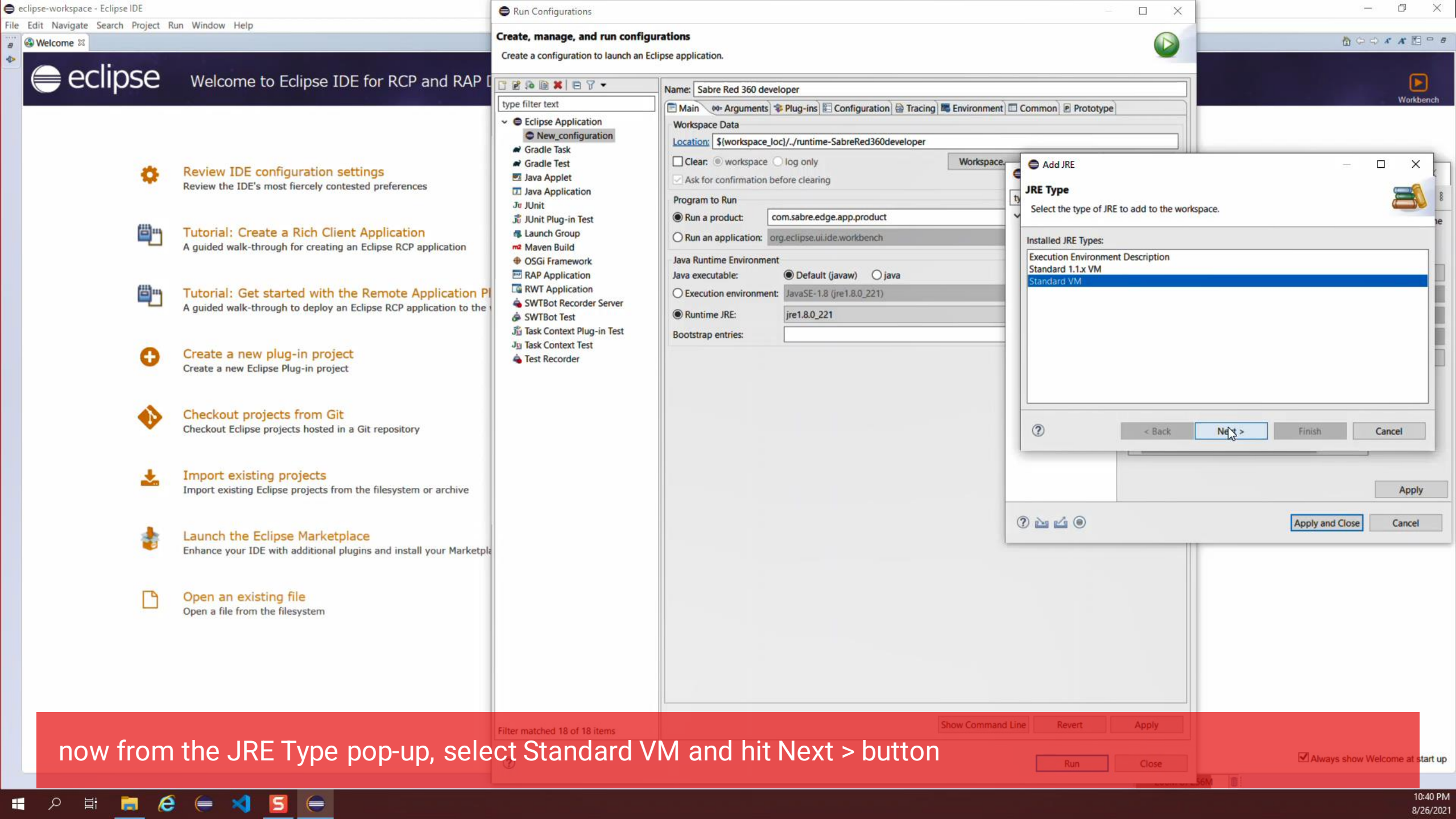
type filter text
Eclipse Application
New_configuration
Gradle Task
Gradle Test
Java Applet
Java Application
JUnit
JUnit Plug-in Test
Launch Group
Maven Build
OSGi Framework
RAP Application
RWT Application
SWTBot Recorder Server
SWTBot Test
Task Context Plug-in Test
Task Context Test
Test Recorder
Filter matched 18 of 18 items
Name: Sabre Red 360 developer
Main
Arguments
Plug-ins
Configuration
Tracing
Environment
Common
Prototype
Workspace Data
Location: ${workspace_loc}/../runtime-SabreRed360developer
Clear: workspace log only
Workspace...
File System...
Variables...
Ask for confirmation before clearing
Program to Run
Run a product: com.sabre.edge.app.product
Run an application: org.eclipse.ui.ide.workbench
Java Runtime Environment
Java executable: Default (javaw) java
Execution environment: JavaSE-1.8 (jre1.8.0_221)
Runtime JRE: jre1.8.0_221
Bootstrap entries:
Show Command Line
Revert
Apply
Run
Close
Preferences (Filtered)
type filter text
Java
Installed JREs
Installed JREs
Add, remove or edit JRE definitions. By default, the checked JRE is added to the build path of newly created Java projects.
Installed JREs:
Name
Location
jre1.8.0_22...
C:\Program Files\Java\jre1.8....
Add...
Edit...
Duplicate...
Remove
Search...
Apply
Apply and Close
Cancel
On the Installed JREs pop-up, hit Add... button
10:40 PM
8/26/2021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Workspace...
Ask for confirmation before clearing
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Run a product: com.sabre.edge.app.product
Run an application: org.eclipse.ui.ide.workbench
Java Runtime Environment
Java executable: Default (javaw) java
Execution environment: JavaSE-1.8 (jre1.8.0_221)
Runtime JRE: jre1.8.0_221
Bootstrap entries:
Show Command Line
Revert
Apply
Run
Close
Add JRE
JRE Type
Select the type of JRE to add to the workspace.
Installed JRE Types:
Execution Environment Description
Standard 1.1.x VM
Standard VM
< Back
Next >
Finish
Cancel
Apply
Apply and Close
Cancel
now from the JRE Type pop-up, select Standard VM and hit Next > button
10:40 PM
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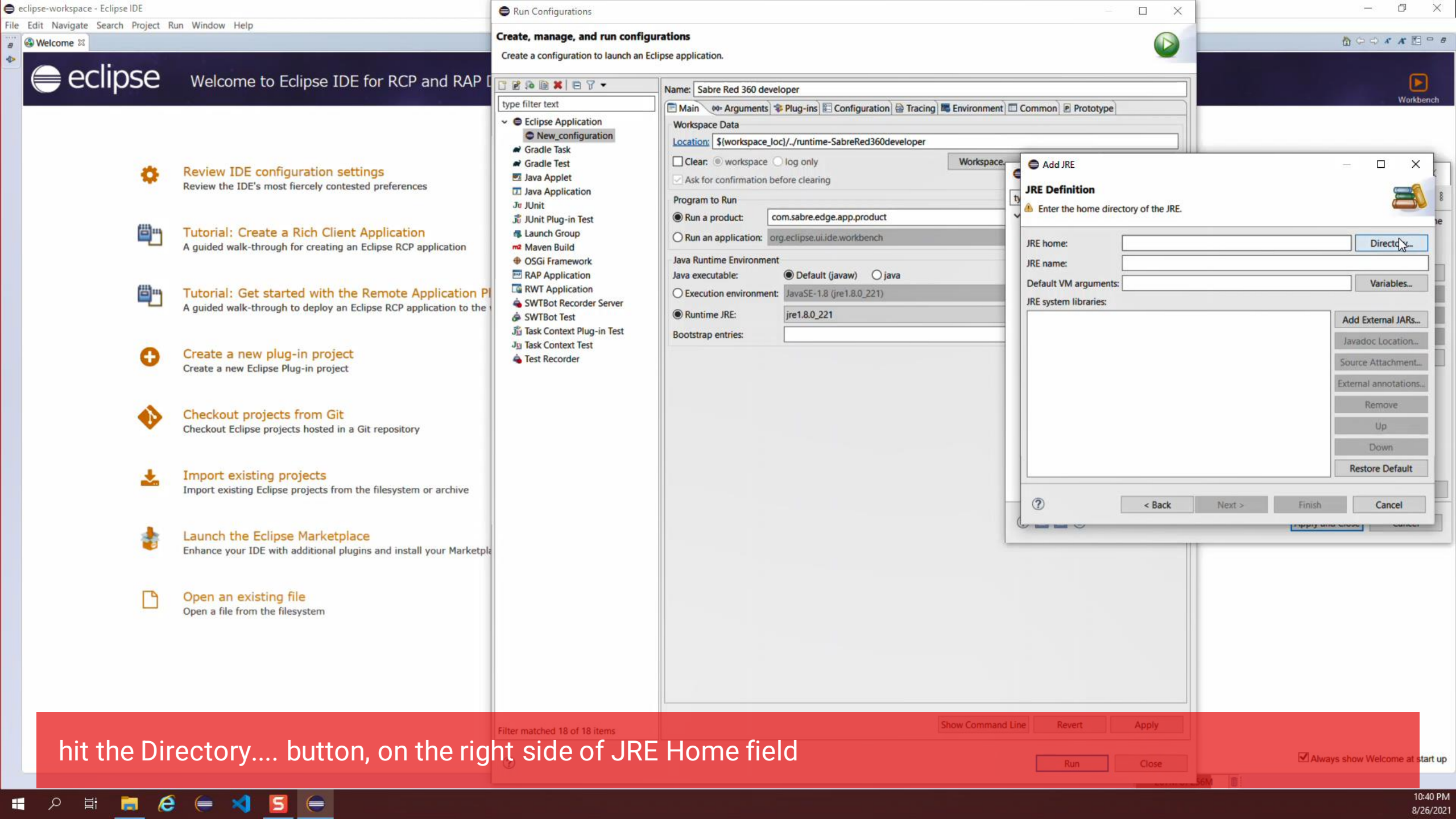
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New_configuration
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Task Context Test
Test Recorder
Filter matched 18 of 18 items
Name: Sabre Red 360 developer
Main Arguments Plug-ins Configuration Tracing Environment Common Prototype
Workspace Data
Location: ${workspace_loc}/../runtime-SabreRed360developer
Clear: workspace log only
Workspace...
Ask for confirmation before clearing
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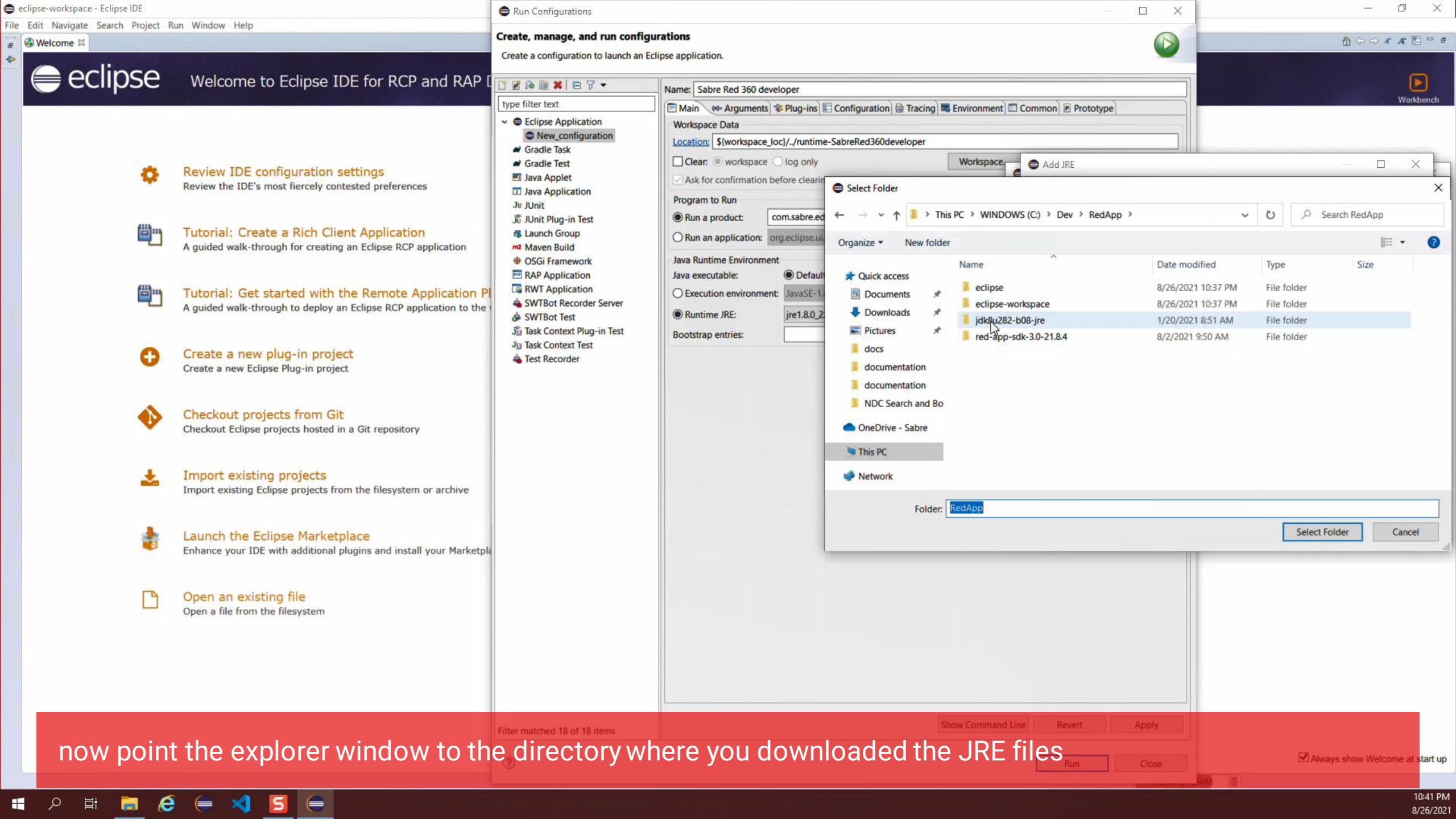
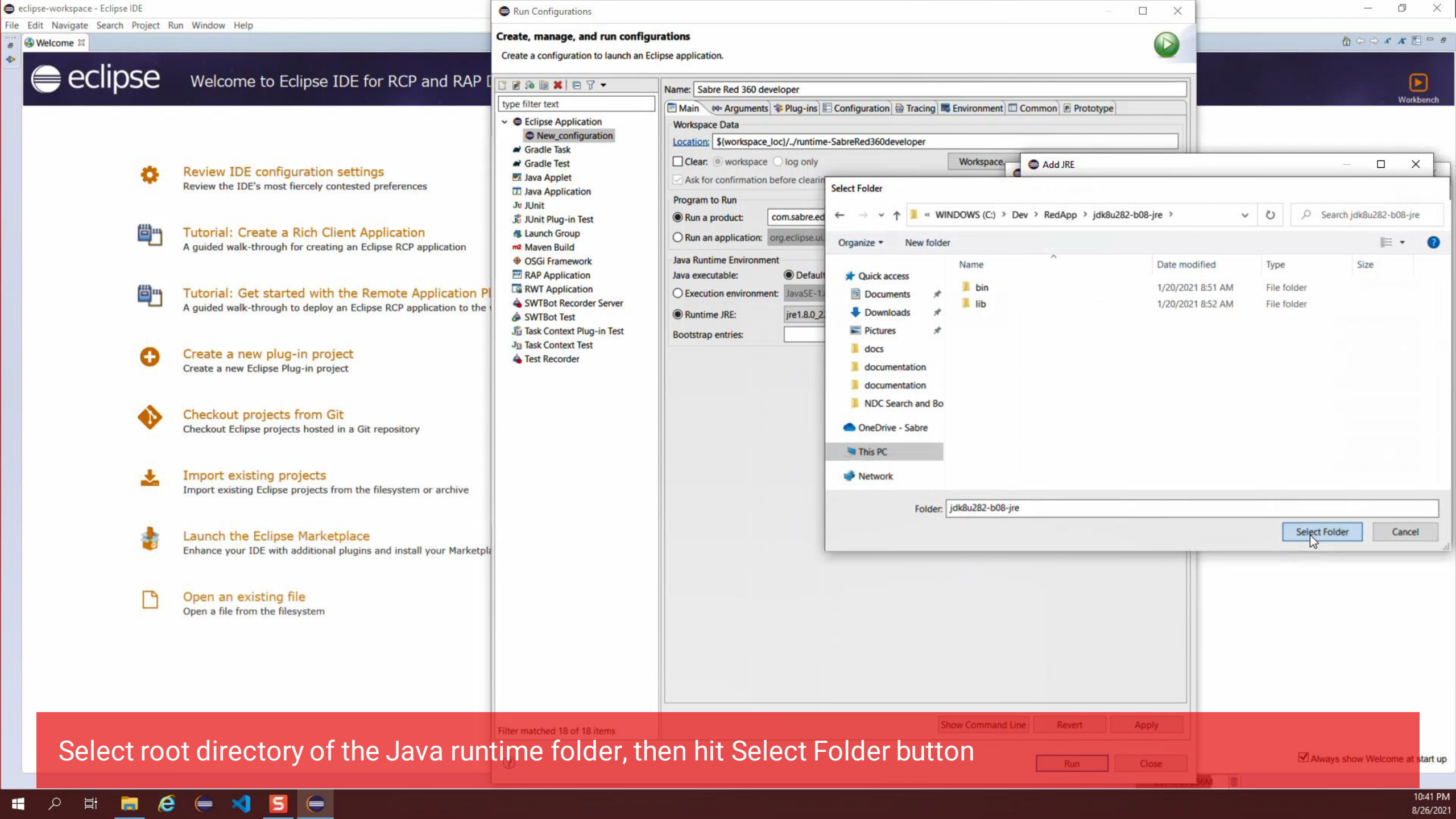
Run a product: com.sabre.edge.app.product
Run an application: org.eclipse.ui.ide.workbench
Java Runtime Environment
Java executable: Default (javaw) java
Execution environment: JavaSE-1.8 (jre1.8.0_221)
Runtime JRE: jre1.8.0_221
Bootstrap entries:
Show Command Line
Revert
Apply
Run
Close
Add JRE
JRE Definition
Enter the home directory of the JRE.
JRE home:
Directory...
JRE name:
Default VM arguments:
Variables...
JRE system libraries:
Add External JARs...
Javadoc Location...
Source Attachment...
External annotations...
Remove
Up
Down
Restore Default
< Back
Next >
Finish
Cancel
hit the Directory.... button, on the right side of JRE Home field
10:40 PM
8/26/2021



now point the explorer window to the directory where you downloaded the JRE files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New_configuration
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Task Context Plug-in Test
Task Context Test
Test Recorder
Filter matched 18 of 18 items
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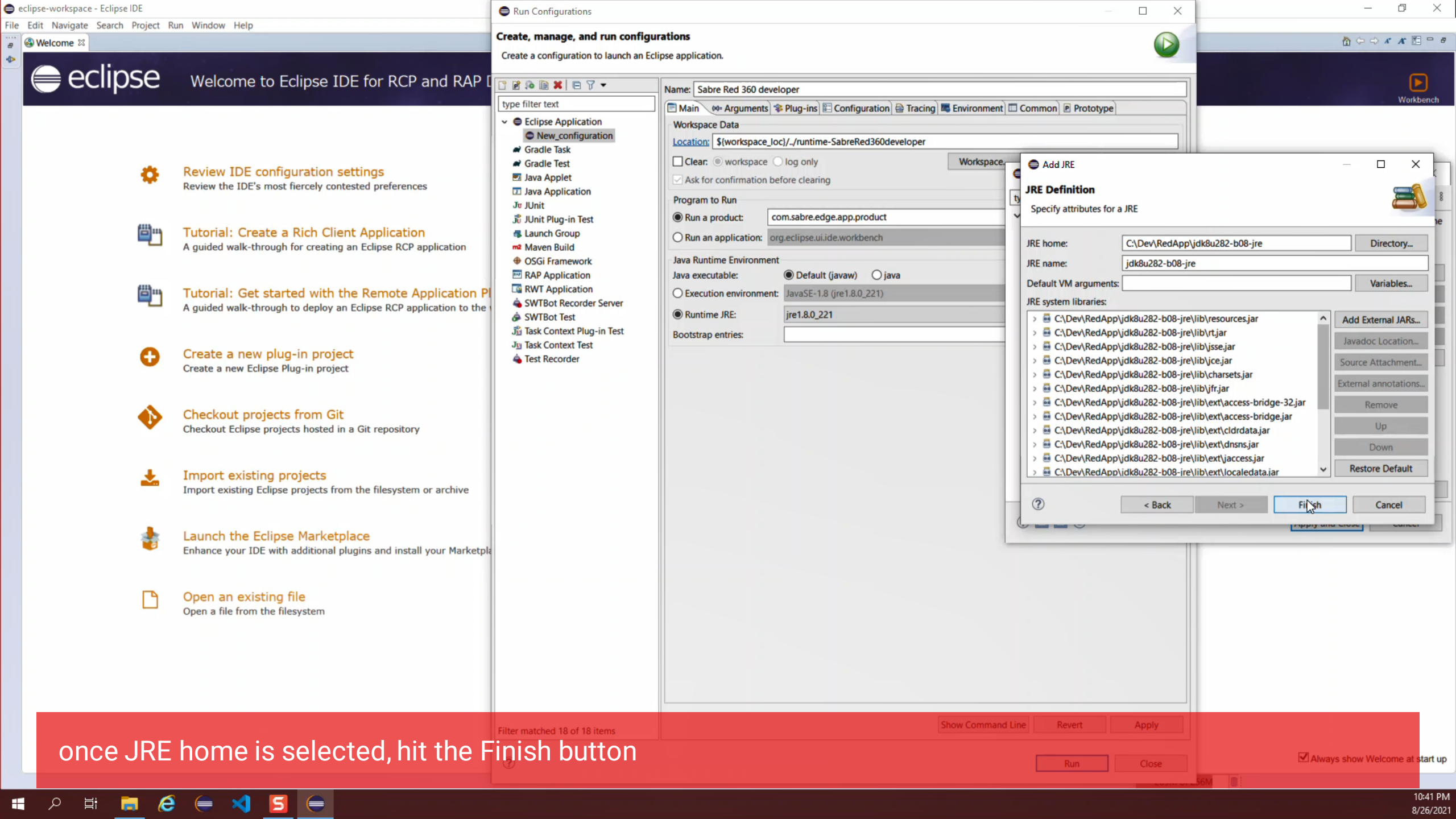
Main
Arguments
Plug-ins
Configuration
Tracing
Environment
Common
Prototype
Workspace Data
Location: ${workspace_loc}/../runtime-SabreRed360developer
Clear: workspace log only
Workspace...
Ask for confirmation before clearin
Program to Run
Run a product: com.sabre.ed
Run an application: org.eclipse.ui.
Java Runtime Environment
Java executable: Default
Execution environment: JavaSE-1.
Runtime JRE: jre1.8.0_2
Bootstrap entries:
Show Command Line
Revert
Apply
Run
Close
Add JRE
Select Folder
« WINDOWS (C:) › Dev › RedApp › jdk8u282-b08-jre ›
Search jdk8u282-b08-jre
Organize
New folder
Quick access
Documents
Downloads
Pictures
docs
documentation
documentation
NDC Search and Bo
OneDrive - Sabre
This PC
Network
Name
Date modified
Type
Size
bin
1/20/2021 8:51 AM
File folder
lib
1/20/2021 8:52 AM
File folder
Folder: jdk8u282-b08-jre
Select Folder
Cancel
Select root directory of the Java runtime folder, then hit Select Folder button
10:41 PM
8/26/2021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Prototype
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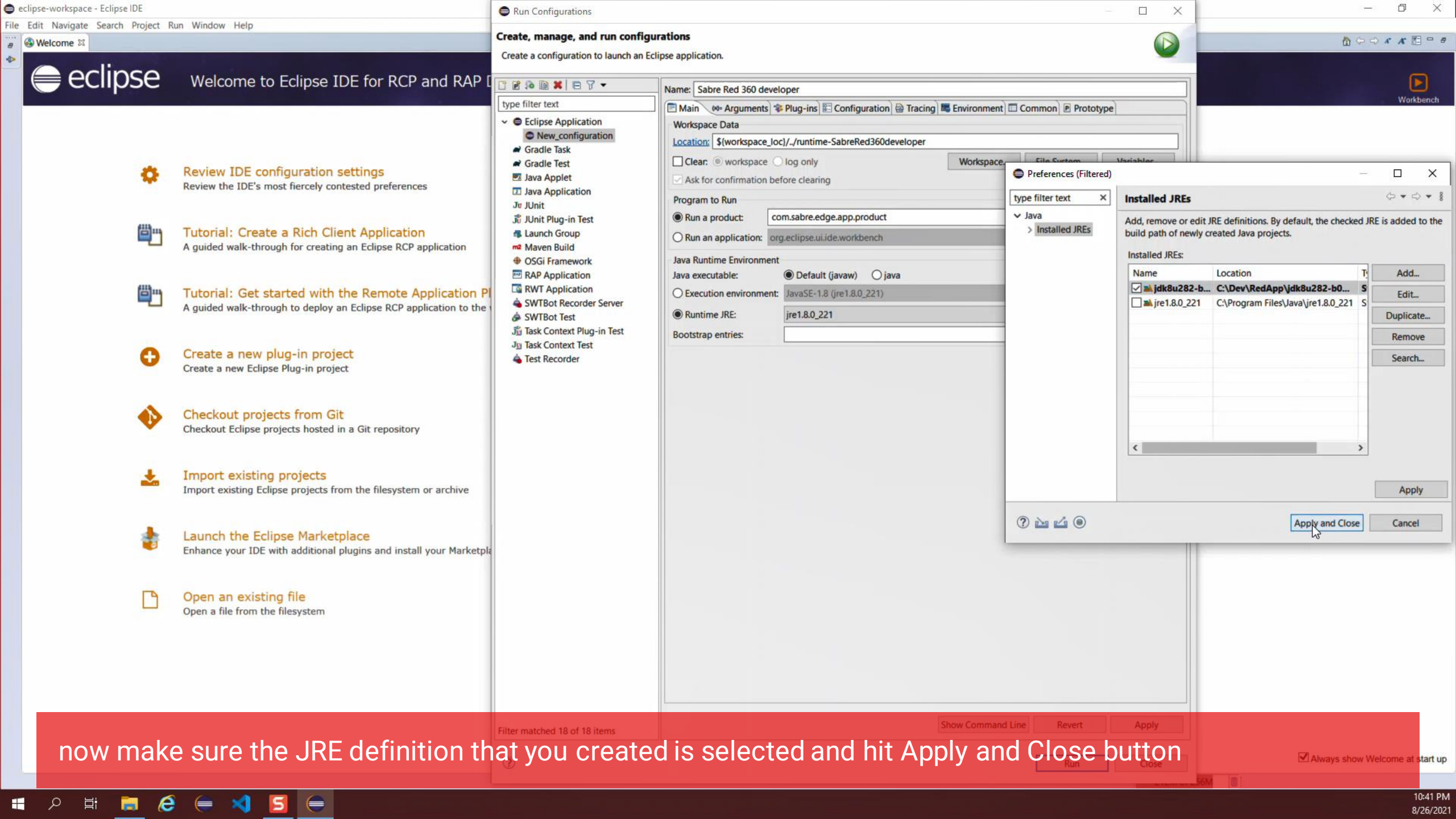
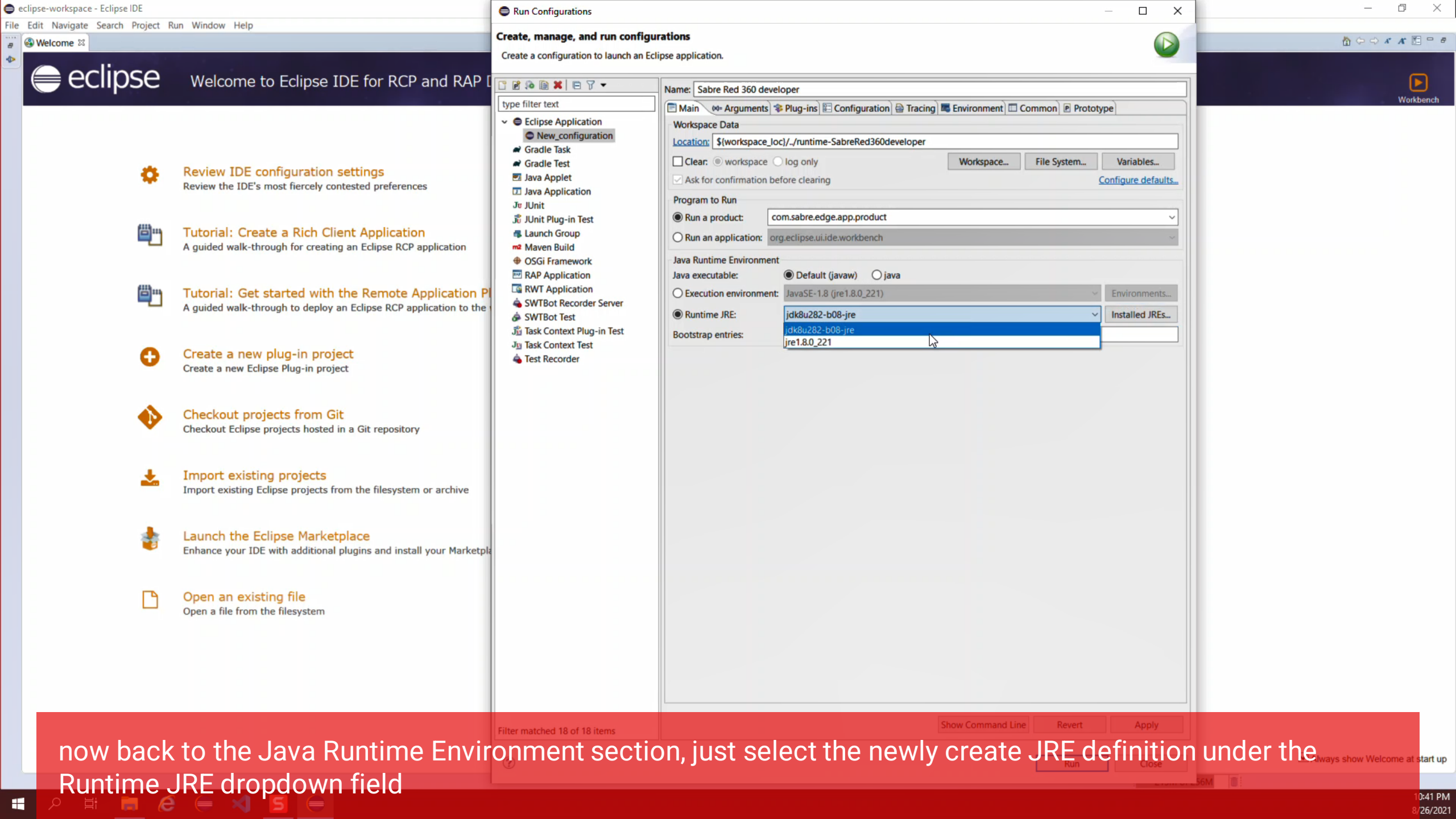
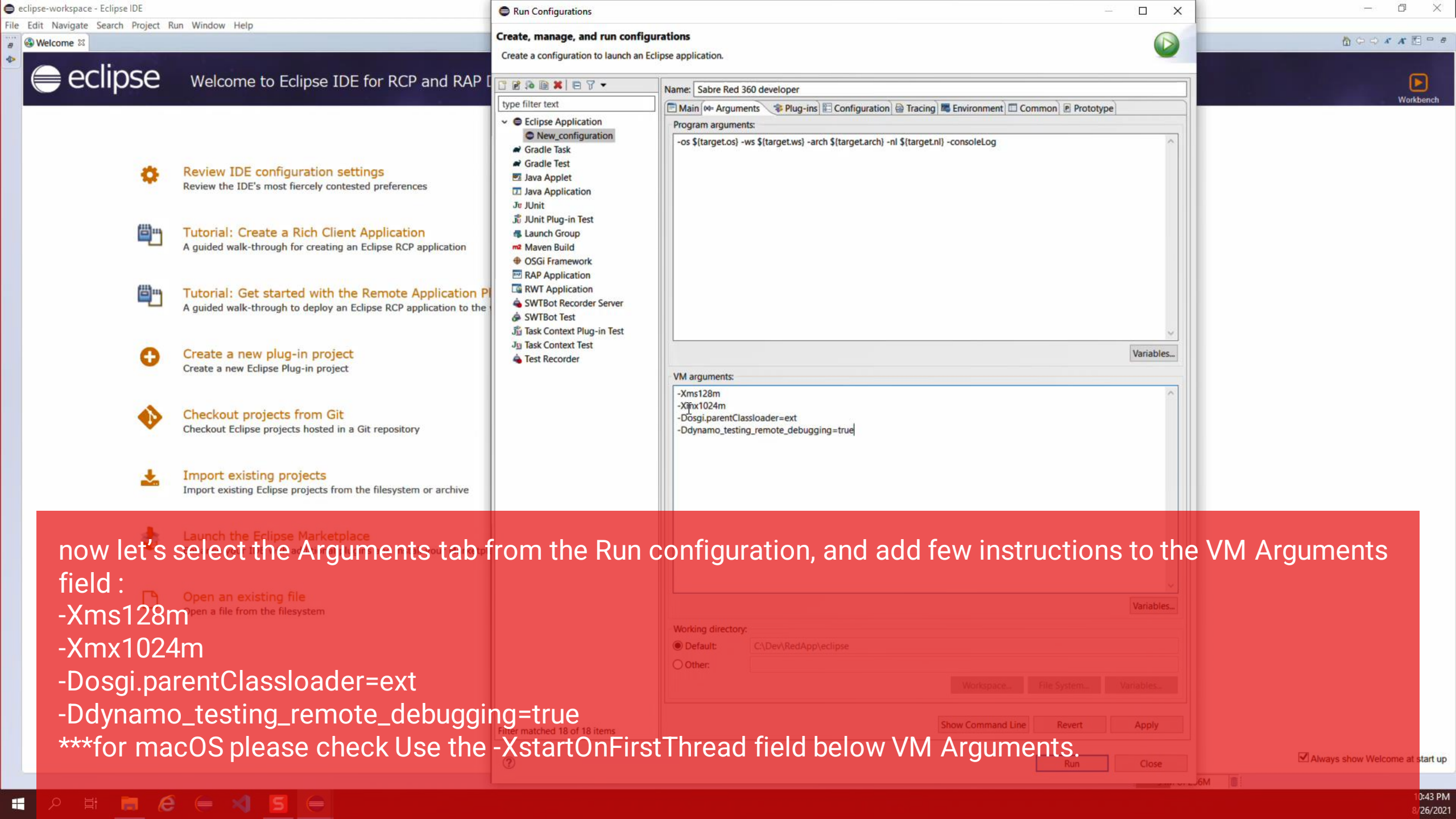
Location: ${workspace_loc}/../runtime-SabreRed360developer
Clear: workspace log only
Workspace...
Ask for confirmation before clearing
Program to Run
Run a product: com.sabre.edge.app.product
Run an application: org.eclipse.ui.ide.workbench
Java Runtime Environment
Java executable: Default (javaw) java
Execution environment: JavaSE-1.8 (jre1.8.0_221)
Runtime JRE: jre1.8.0_221
Bootstrap entries:
Show Command Line
Revert
Apply
Run
Close
Add JRE
JRE Definition
Specify attributes for a JRE
JRE home: C:\Dev\RedApp\jdk8u282-b08-jre
Directory...
JRE name: jdk8u282-b08-jre
Default VM arguments:
Variables...
JRE system libraries:
C:\Dev\RedApp\jdk8u282-b08-jre\lib\resources.jar
C:\Dev\RedApp\jdk8u282-b08-jre\lib\rt.jar
C:\Dev\RedApp\jdk8u282-b08-jre\lib\jsse.jar
C:\Dev\RedApp\jdk8u282-b08-jre\lib\jce.jar
C:\Dev\RedApp\jdk8u282-b08-jre\lib\charsets.jar
C:\Dev\RedApp\jdk8u282-b08-jre\lib\jfr.jar
C:\Dev\RedApp\jdk8u282-b08-jre\lib\ext\access-bridge-32.jar
C:\Dev\RedApp\jdk8u282-b08-jre\lib\ext\access-bridge.jar
C:\Dev\RedApp\jdk8u282-b08-jre\lib\ext\cldrdata.jar
C:\Dev\RedApp\jdk8u282-b08-jre\lib\ext\dnsns.jar
C:\Dev\RedApp\jdk8u282-b08-jre\lib\ext\jaccess.jar
C:\Dev\RedApp\jdk8u282-b08-jre\lib\ext\localedata.jar
Add External JARs...
Javadoc Location...
Source Attachment...
External annotations...
Remove
Up
Down
Restore Default
< Back
Next >
Finish
Cancel
once JRE home is selected, hit the Finish button
10:41 PM
8/26/2021



now make sure the JRE definition that you created is selected and hit Apply and Close button



now back to the Java Runtime Environment section, just select the newly create JRE definition under the Runtime JRE dropdown field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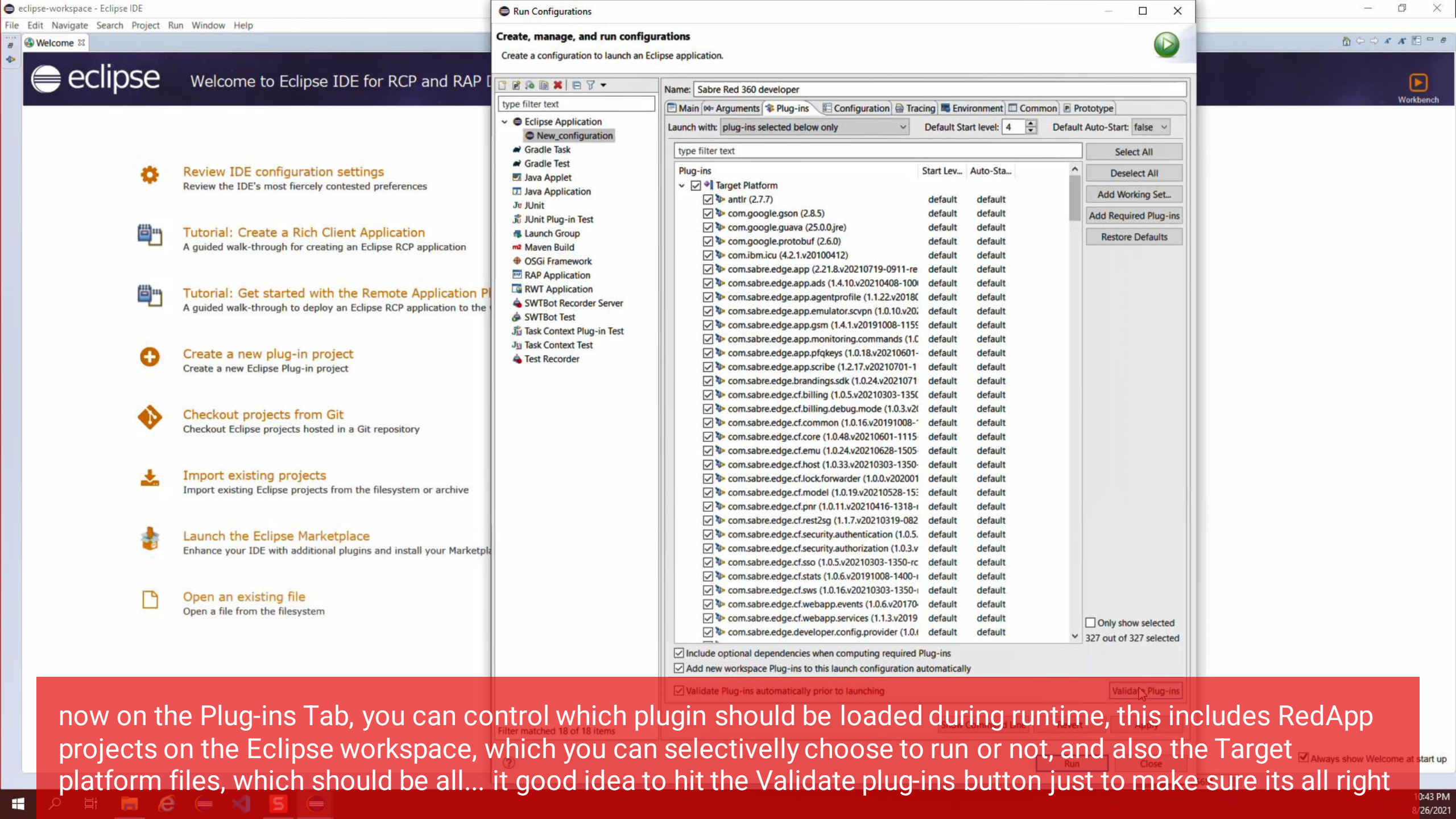
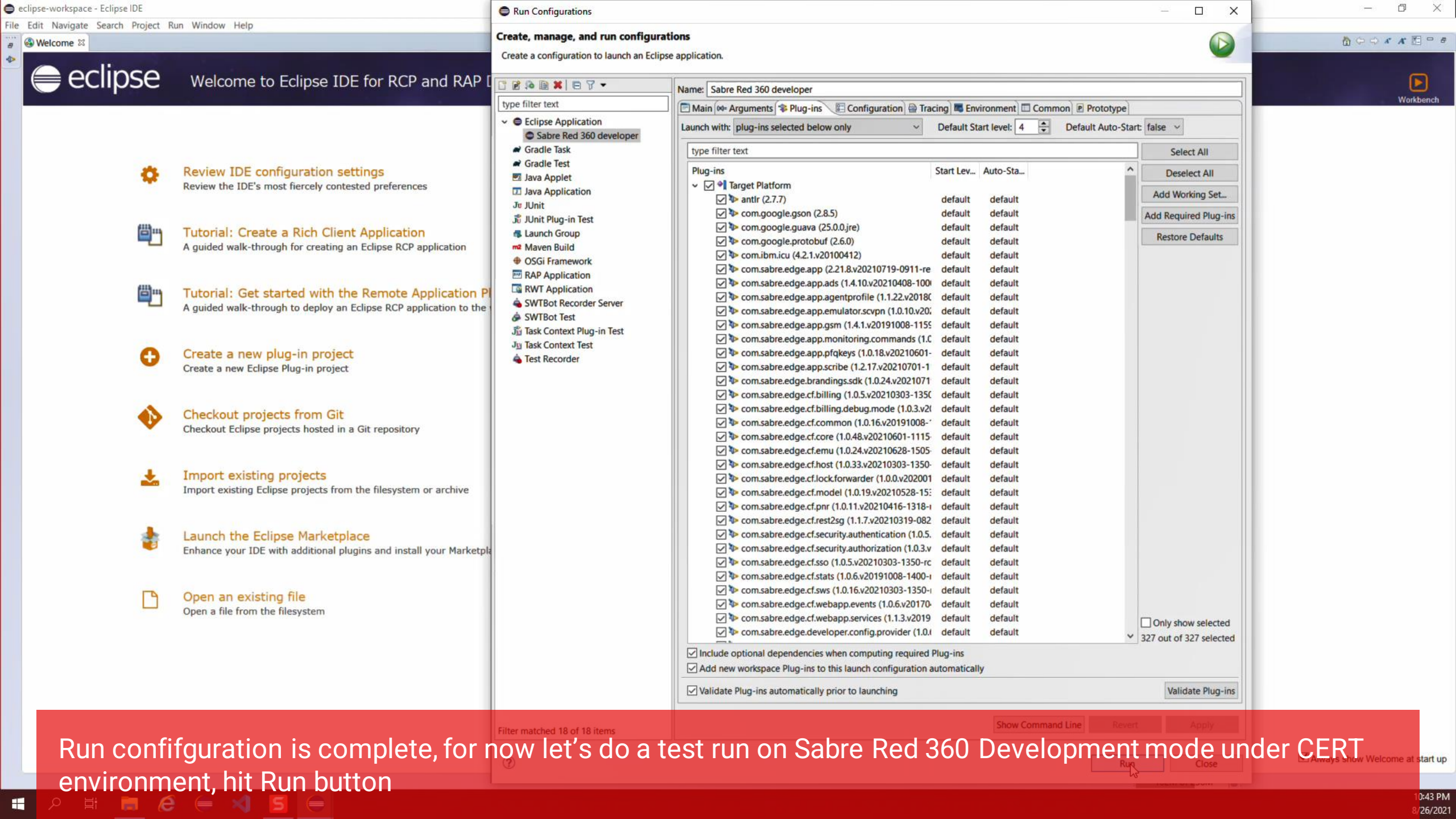
SWTBot Test
Task Context Plug-in Test
Task Context Test
Test Recorder
Filter matched 18 of 18 items
Name: Sabre Red 360 developer
Main Arguments Plug-ins Configuration Tracing Environment Common Prototype
Program arguments:
-os ${target.os} -ws ${target.ws} -arch ${target.arch} -nl ${target.nl} -consoleLog
Variables...
VM arguments:
-Xms128m
-Xmx1024m
-Dosgi.parentClassloader=ext
-Ddynamo_testing_remote_debugging=true
Variables...
Working directory:
Default:
C:\Dev\RedApp\eclipse
Other:
Workspace... File System... Variables...
Show Command Line
Revert
Apply
Run
Close
now let's select the Arguments tab from the Run configuration, and add few instructions to the VM Arguments field :
-Xms128m
-Xmx1024m
-Dosgi.parentClassloader=ext
-Ddynamo_testing_remote_debugging=true
***for macOS please check Use the -XstartOnFirstThread field below VM Arguments.
10:43 PM
8/26/2021



now on the Plug-ins Tab, you can control which plugin should be loaded during runtime, this includes RedApp projects on the Eclipse workspace, which you can selectivelly choose to run or not, and also the Target platform files, which should be all... it good idea to hit the Validate plug-ins button just to make sure its all right



Run confifguration is complete, for now let’s do a test run on Sabre Red 360 Development mode under CERT environment, hit Run button

eclipse-workspace - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Welcome Console

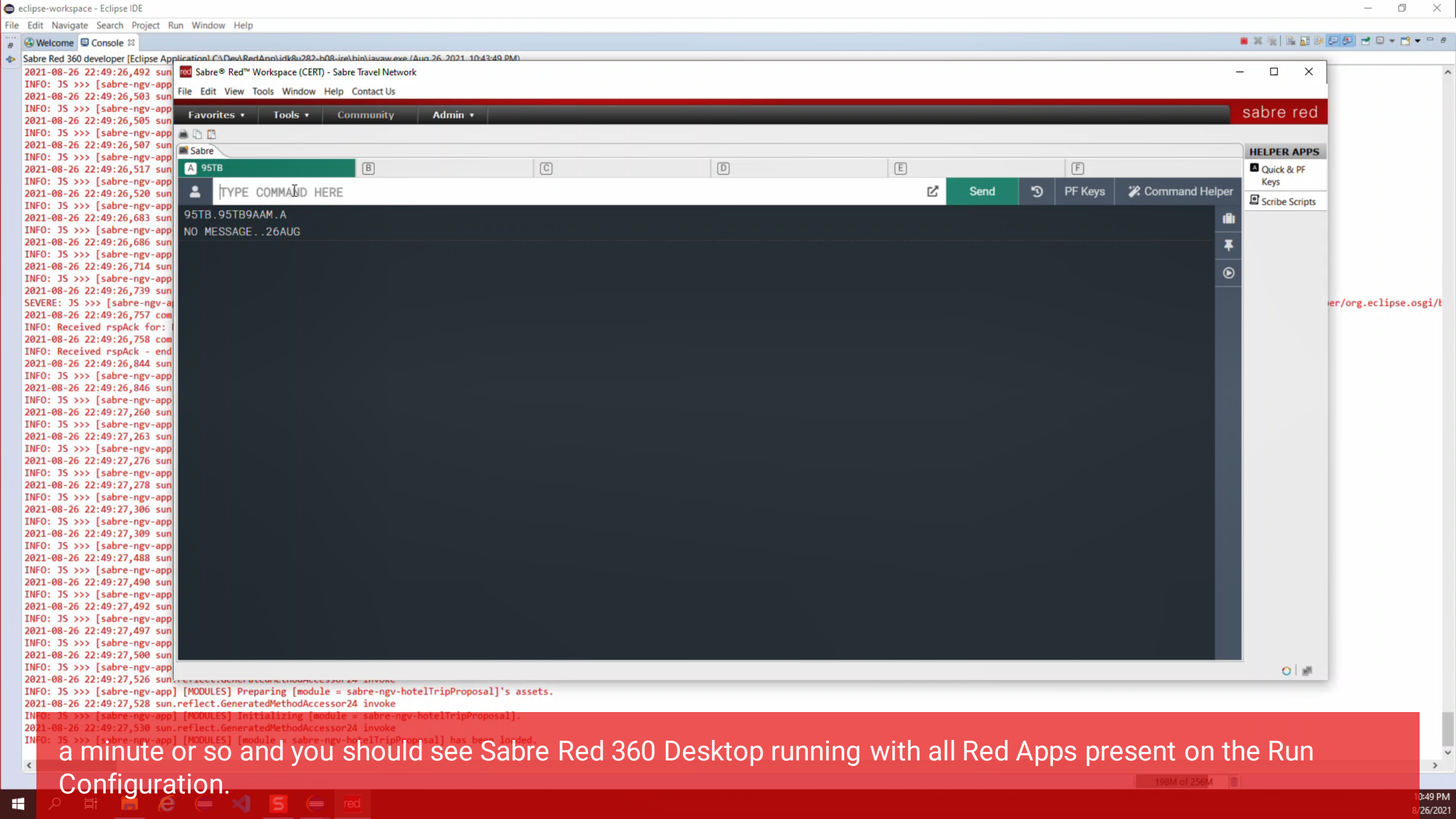
Sabre Red 360 developer [Eclipse Application] C:\Dev\RedApp\jdk8u282-b08-jre\bin\javaw.exe (Aug 26, 2021, 10:43:49 PM)

```
2021-08-26 22:43:58,816 com.sabre.edge.platform.core.branding.Activator start
INFO: Branding Framework plug-in (1.5.1.v20170630-1717-r17a15c) starting
2021-08-26 22:43:58,819 com.sabre.edge.platform.core.branding.Activator start
INFO: Branding Framework plug-in (1.5.1.v20170630-1717-r17a15c) started
2021-08-26 22:43:58,820 com.sabre.edge.platform.core.ui.internal.Activator start
INFO: User Interface add-ons plug-in (3.1.10.v20201217-1813-r8b4f1f) starting
2021-08-26 22:43:58,823 com.sabre.edge.platform.core.ui.internal.Activator start
INFO: User Interface add-ons plug-in (3.1.10.v20201217-1813-r8b4f1f) started
2021-08-26 22:43:58,965 com.sabre.edge.platform.core.rest.Activator start
INFO: RESTful WebServices Framework (1.5.25.v20210622-1609-r933b09) plug-in starting
2021-08-26 22:43:58,982 com.sabre.edge.platform.core.rest.Activator start
INFO: RESTful WebServices Framework (1.5.25.v20210622-1609-r933b09) plug-in started
2021-08-26 22:43:58,986 com.sabre.edge.platform.core.sso.Activator start
INFO: Single Sign-On (1.17.0.v20210715-1343-r2c178a) plug-in starting
2021-08-26 22:43:59,064 com.sabre.edge.platform.core.sso.Activator start
INFO: Single Sign-On (1.17.0.v20210715-1343-r2c178a) plug-in started
2021-08-26 22:43:59,071 com.sabre.edge.platform.core.pubsub.Activator start
INFO: Pub/Sub Framework (1.1.6.v20170630-1741-r2fdb7a) plug-in starting
2021-08-26 22:43:59,080 com.sabre.edge.platform.core.pubsub.Activator start
INFO: Pub/Sub Framework (1.1.6.v20170630-1741-r2fdb7a) plug-in started
2021-08-26 22:43:59,083 com.sabre.edge.platform.core.common.Activator start
INFO: Common MySabre Core (1.4.59.v20210629-1835-r805377) starting
2021-08-26 22:43:59,102 com.sabre.edge.platform.core.common.Activator start
INFO: Common MySabre Core (1.4.59.v20210629-1835-r805377) started
2021-08-26 22:43:59,108 com.sabre.edge.platform.core.branding.internal.BrandingService initialize
INFO: Branding initialization started.
2021-08-26 22:43:59,113 com.sabre.edge.brandings.sdk.Activator start
INFO: Red Branding plug-in (1.0.24.v20210719-0916-r9755f7) starting
2021-08-26 22:43:59,114 com.sabre.edge.brandings.sdk.Activator start
INFO: Red Branding plug-in (1.0.24.v20210719-0916-r9755f7) started
2021-08-26 22:43:59,120 com.sabre.edge.platform.core.branding.internal.BrandingService initialize
INFO: Branding initialization finished.
2021-08-26 22:43:59,121 com.sabre.edge.platform.core.branding.internal.BrandingService registerDefaultFonts
INFO: Initializing default fonts
2021-08-26 22:43:59,276 com.sabre.edge.platform.core.wizard.Activator start
INFO: Wizard Framework (1.0.8.v20170630-1750-r05a9e0) starting
2021-08-26 22:43:59,350 com.sabre.edge.platform.core.wizard.Activator start
INFO: Wizard Framework (1.0.8.v20170630-1750-r05a9e0) started
2021-08-26 22:43:59,357 com.sabre.edge.app.Activator start
INFO: Sabre Red Workspace Application plug-in (2.21.8.v20210719-0911-rea6c1c) started
2021-08-26 22:43:59,424 com.sabre.edge.app.application.Application start
INFO: Application start time 26 Aug 2021, 10:43:59:422 PM
2021-08-26 22:43:59,425 com.sabre.edge.app.application.Application start
INFO: Security checks took 3 ms
2021-08-26 22:43:59,588 com.sabre.edge.app.application.Application updateInstrumentationData
INFO: [BAI] Workflow instrumentation process ID: eWbHOstInAInZl5RR+CF3a0Y5q9WDoN4TrmNSA8ft1M=_XXXXXXXXX0187
2021-08-26 22:43:59,597 com.sabre.edge.platform.core.domain.Activator start
INFO: Sabre Domain Model plug-in (1.4.20.v20200417-0922-r68d6fe) starting
2021-08-26 22:43:59,598 com.sabre.edge.platform.core.domain.Activator start
INFO: Sabre Domain Model plug-in (1.4.20.v20200417-0922-r68d6fe) started
2021-08-26 22:43:59,601 com.sabre.edge.platform.core.domain.utils.MarketingVersionProvider getMarketingVersion
INFO: Returning MarketingVersion: 3.21.8, dynamo presence: true
2021-08-26 22:43:59,667 com.sabre.edge.platform.core.sso.ui.dialogs.SignInDialog <init>
INFO: Sign in dialog requested and created
2021-08-26 22:43:59,928 com.sabre.edge.platform.core.sso.ui.dialogs.AutofillSignInDialog attachHelperData
INFO: Helper data attached to Sign In dialog
```

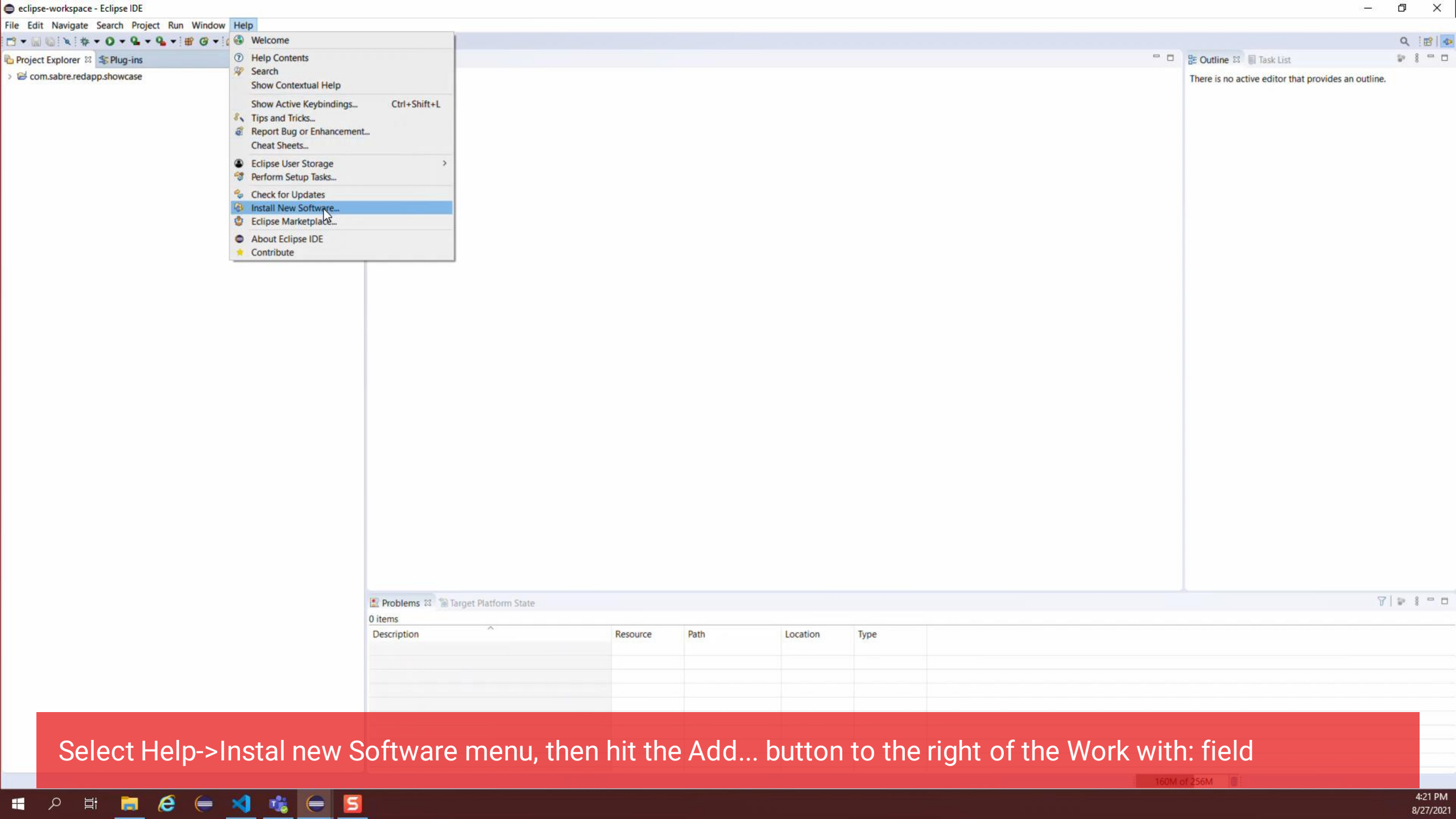
and you should see Sabre Red 360 sign-in dialog, enter your CERT credentials and hit Sign In button

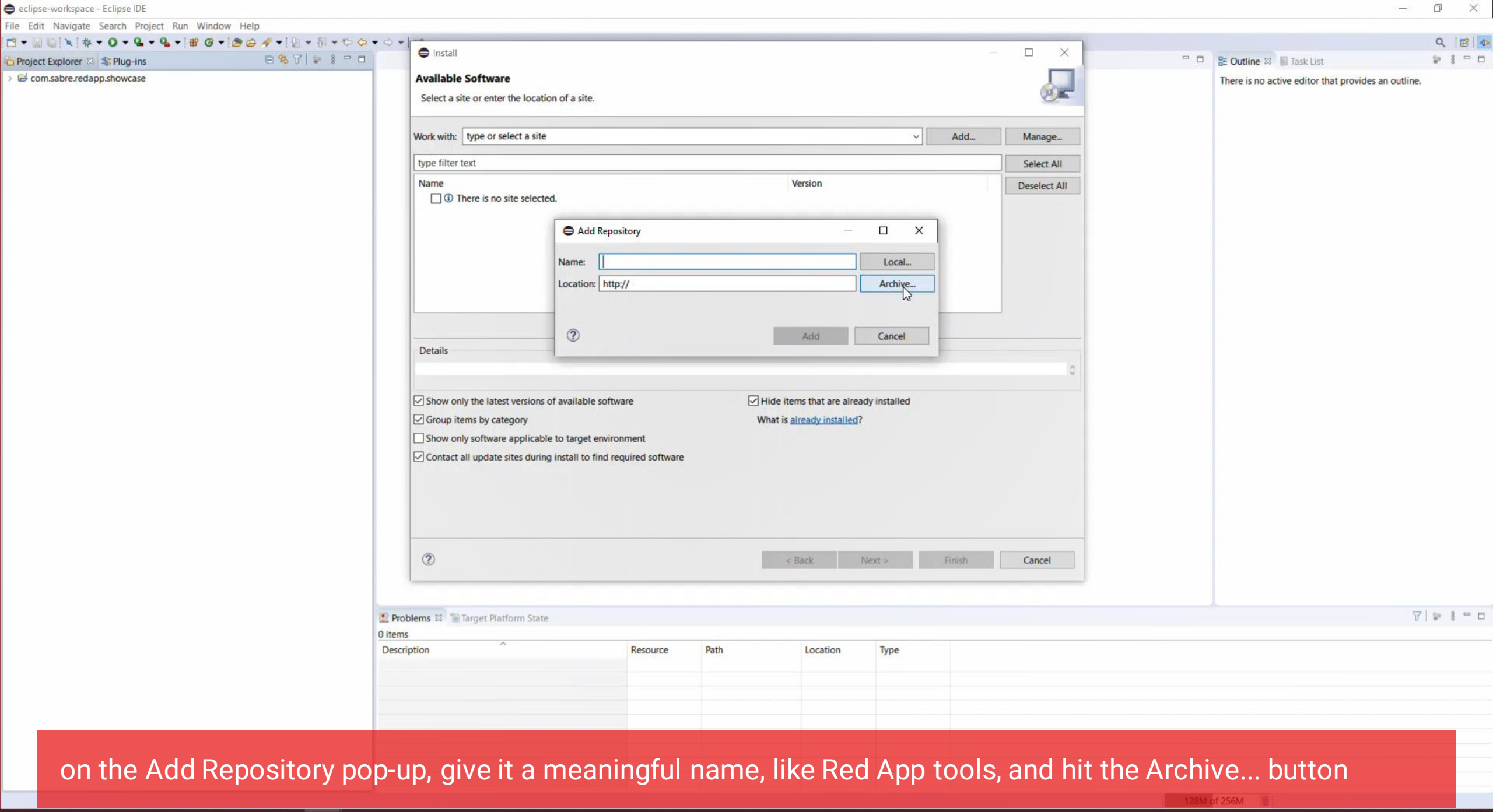
110M of 256M

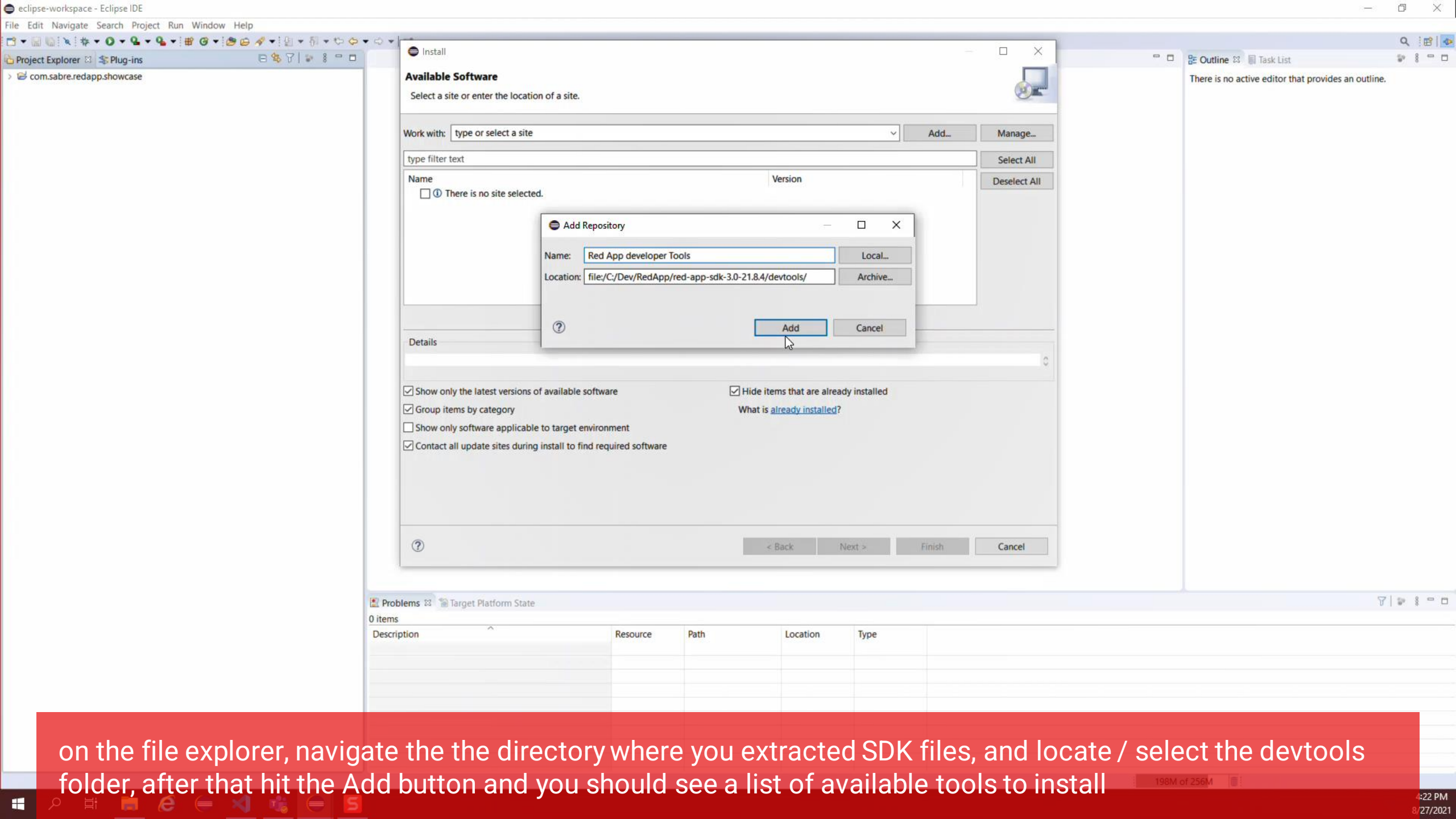
10:44 PM
8/26/2021



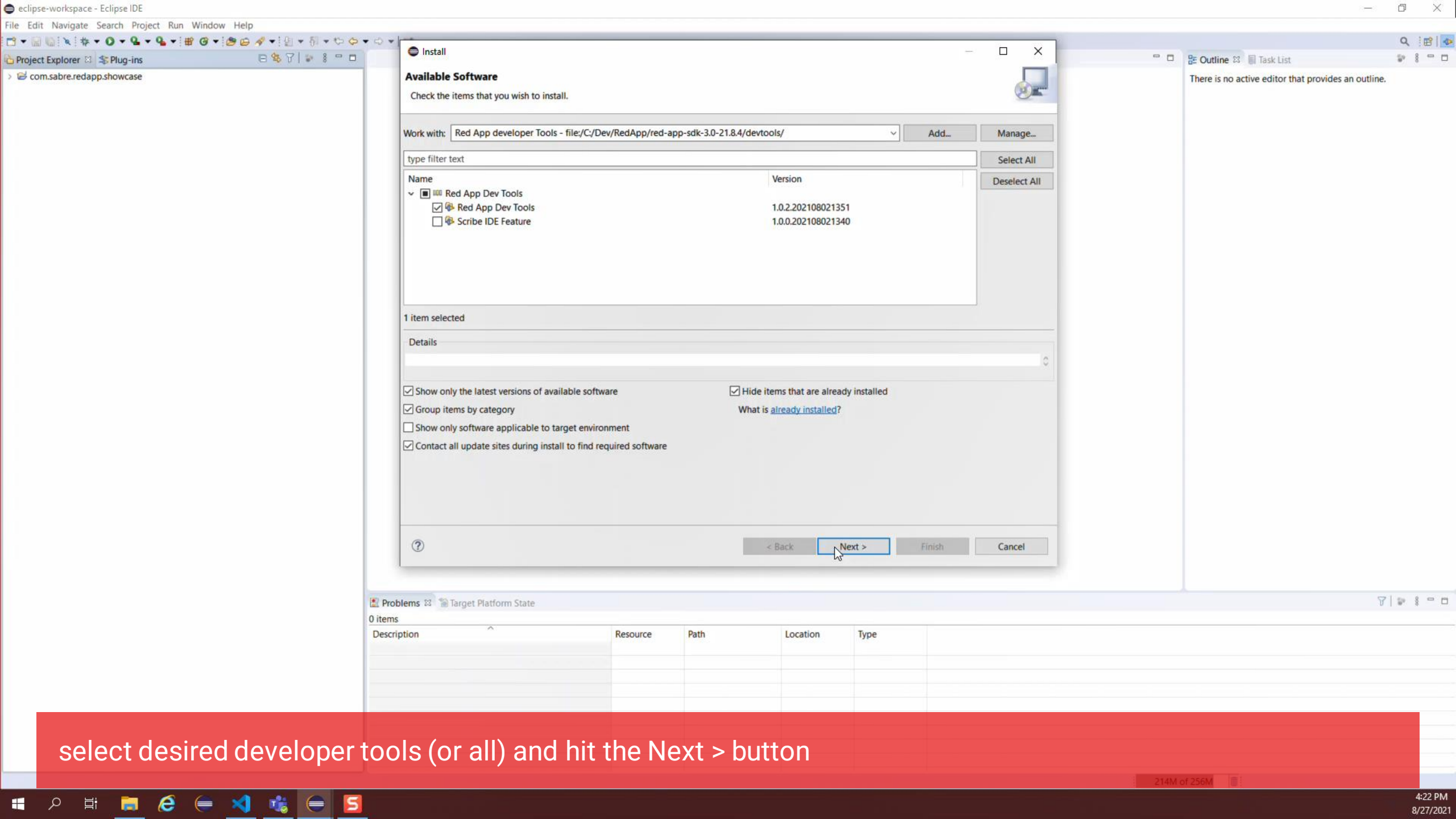
a minute or so and you should see Sabre Red 360 Desktop running with all Red Apps present on the Run Configuration.

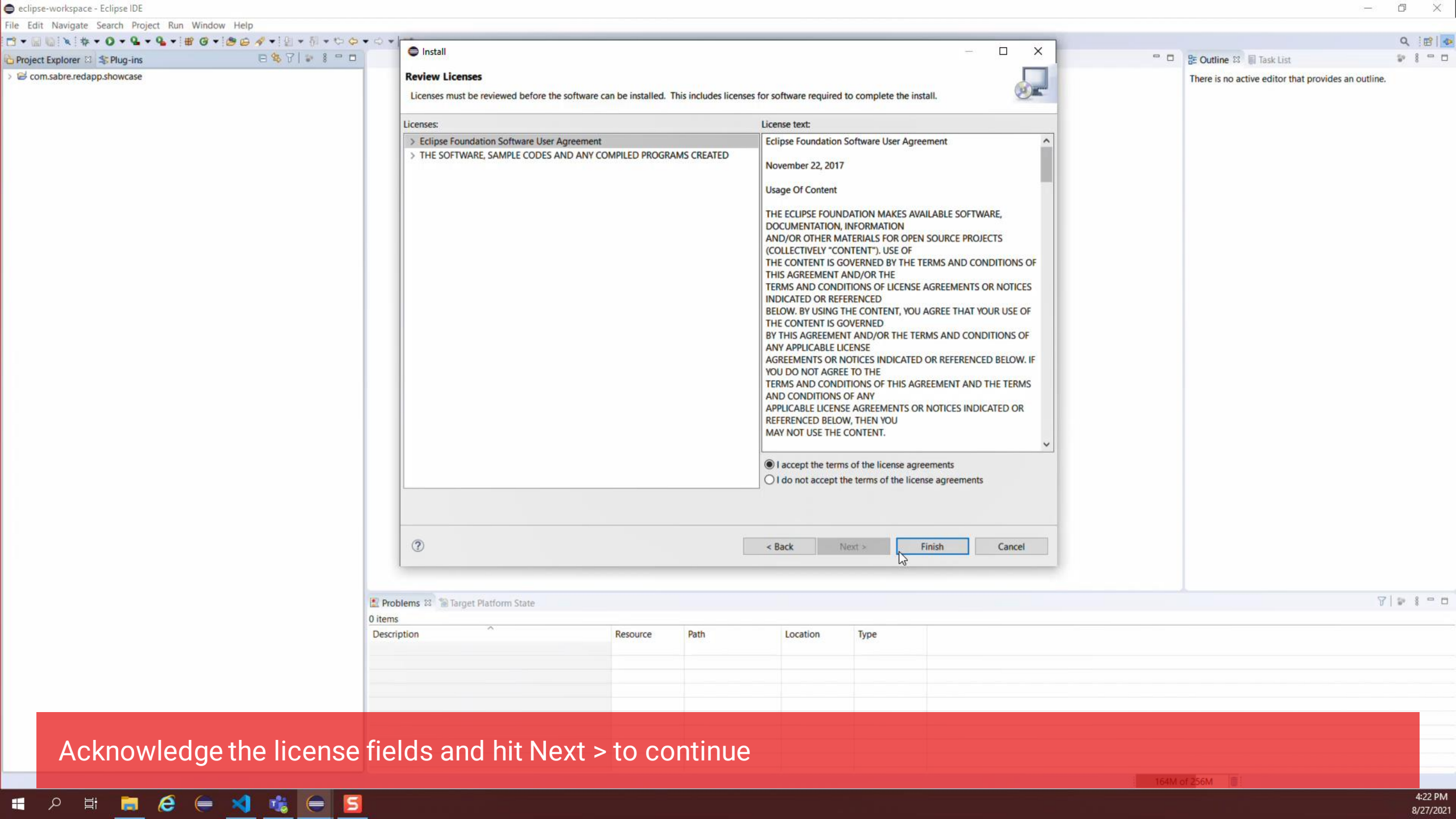

eclipse-workspace - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Welcome
Help Contents
Search
Show Contextual Help
Show Active Keybindings... Ctrl+Shift+L
Tips and Tricks...
Report Bug or Enhancement...
Cheat Sheets...
Eclipse User Storage
Perform Setup Tasks...
Check for Updates
Install New Software...
Eclipse Marketplace...
About Eclipse IDE
Contribute
Project Explorer
Plug-ins
com.sabre.redapp.showcase
Outline
Task List
There is no active editor that provides an outline.
Problems
Target Platform State
0 items
Description
Resource
Path
Location
Type
Select Help->Instal new Software menu, then hit the Add... button to the right of the Work with: field
160M of 256M
4:21 PM
8/27/2021


eclipse-workspace - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
Plug-ins
com.sabre.redapp.showcase
Install
Available Software
Select a site or enter the location of a site.
Work with:
type or select a site
Add...
Manage...
type filter text
Select All
Deselect All
Name
Version
There is no site selected.
Add Repository
Name:
Local...
Location:
http://
Archive...
Add
Cancel
Details
Show only the latest versions of available software
Group items by category
Show only software applicable to target environment
Contact all update sites during install to find required software
Hide items that are already installed
What is already installed?
< Back
Next >
Finish
Cancel
Outline
Task List
There is no active editor that provides an outline.
Problems
Target Platform State
0 items
Description
Resource
Path
Location
Type
on the Add Repository pop-up, give it a meaningful name, like Red App tools, and hit the Archive... button
128M of 256M
4:21 PM
8/27/2021



on the file explorer, navigate the the directory where you extracted SDK files, and locate / select the devtools folder, after that hit the Add button and you should see a list of available tools to install


eclipse-workspace - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
Plug-ins
com.sabre.redapp.showcase
Install
Available Software
Check the items that you wish to install.
Work with:
Red App developer Tools - file:/C:/Dev/RedApp/red-app-sdk-3.0-21.8.4/devtools/
Add...
Manage...
type filter text
Select All
Deselect All
Name
Version
Red App Dev Tools
Red App Dev Tools
1.0.2.202108021351
Scribe IDE Feature
1.0.0.202108021340
1 item selected
Details
Show only the latest versions of available software
Group items by category
Show only software applicable to target environment
Contact all update sites during install to find required software
Hide items that are already installed
What is already installed?
< Back
Next >
Finish
Cancel
Outline
Task List
There is no active editor that provides an outline.
Problems
Target Platform State
0 items
Description
Resource
Path
Location
Type
select desired developer tools (or all) and hit the Next > button
214M of 256M
4:22 PM
8/27/2021


eclipse-workspace - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
Plug-ins
com.sabre.redapp.showcase
Install
Review Licenses
Licenses must be reviewed before the software can be installed. This includes licenses for software required to complete the install.
Licenses:
License text:
Eclipse Foundation Software User Agreement
THE SOFTWARE, SAMPLE CODES AND ANY COMPILED PROGRAMS CREATED
Eclipse Foundation Software User Agreement
November 22, 2017
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THE CONTENT IS GOVERNED BY THE TERMS AND CONDITIONS OF THIS AGREEMENT AND/OR THE
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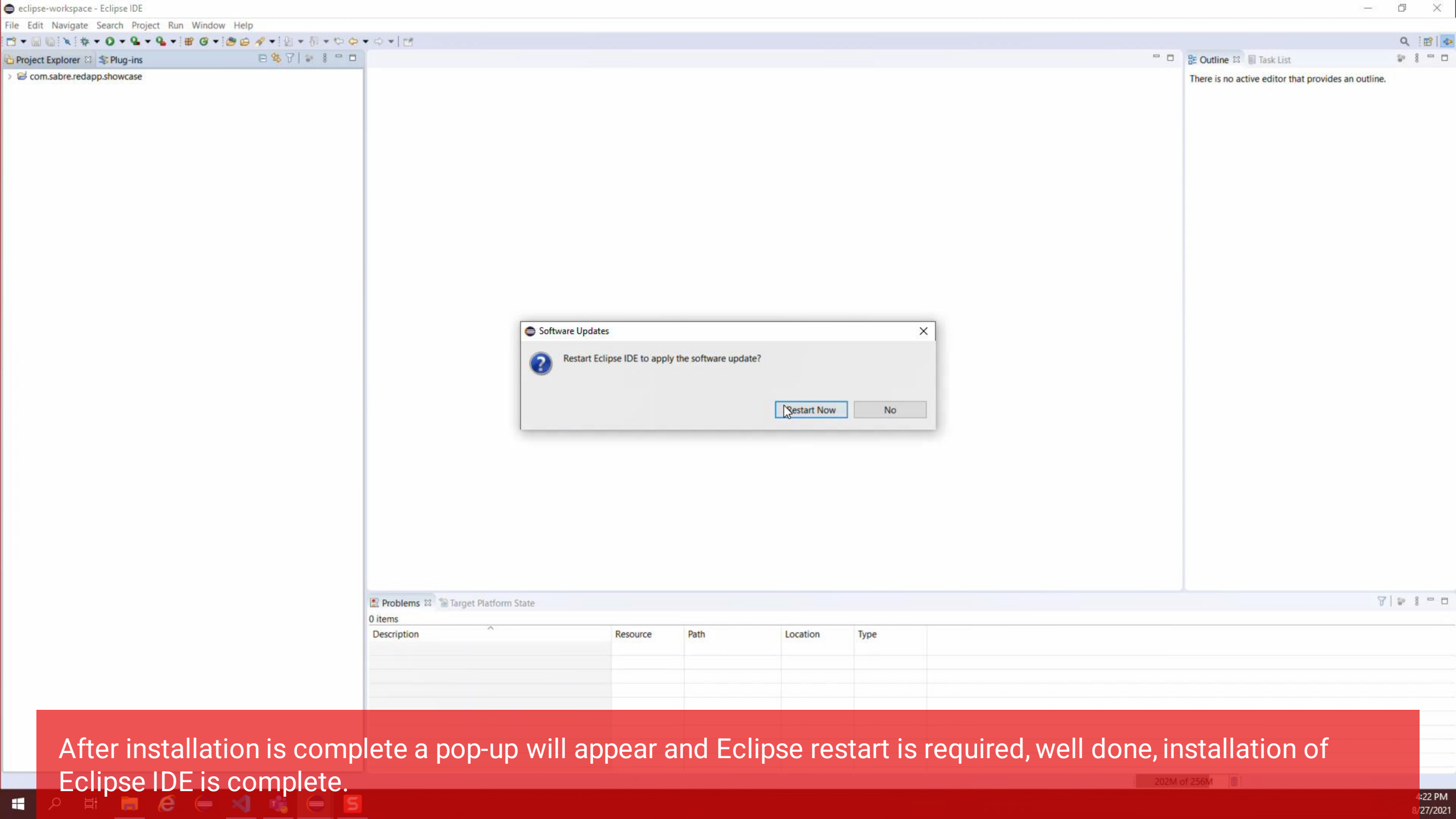
BY THIS AGREEMENT AND/OR THE TERMS AND CONDITIONS OF ANY APPLICABLE LICENSE
AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW. IF YOU DO NOT AGREE TO THE
TERMS AND CONDITIONS OF THIS AGREEMENT AND THE TERMS AND CONDITIONS OF ANY
APPLICABLE LICENSE AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW, THEN YOU
MAY NOT USE THE CONTENT.
I accept the terms of the license agreements
I do not accept the terms of the license agreements
< Back
Next >
Finish
Cancel
Outline
Task List
There is no active editor that provides an outline.
Problems
Target Platform State
0 items
Description
Resource
Path
Location
Type
Acknowledge the license fields and hit Next > to continue
4:22 PM
8/27/2021



After installation is complete a pop-up will appear and Eclipse restart is required, well done, installation of Eclipse IDE is complete.

Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project

Setup Development Environment

Web SDK, framework used to build Web Modules, or Web Red Aps, which are customizations that applies to Sabre Red 360 Next Generation View (NGV)

Install or upgrade Sabre Concierge Tool
install Web Development Tools (3rd party, optional)

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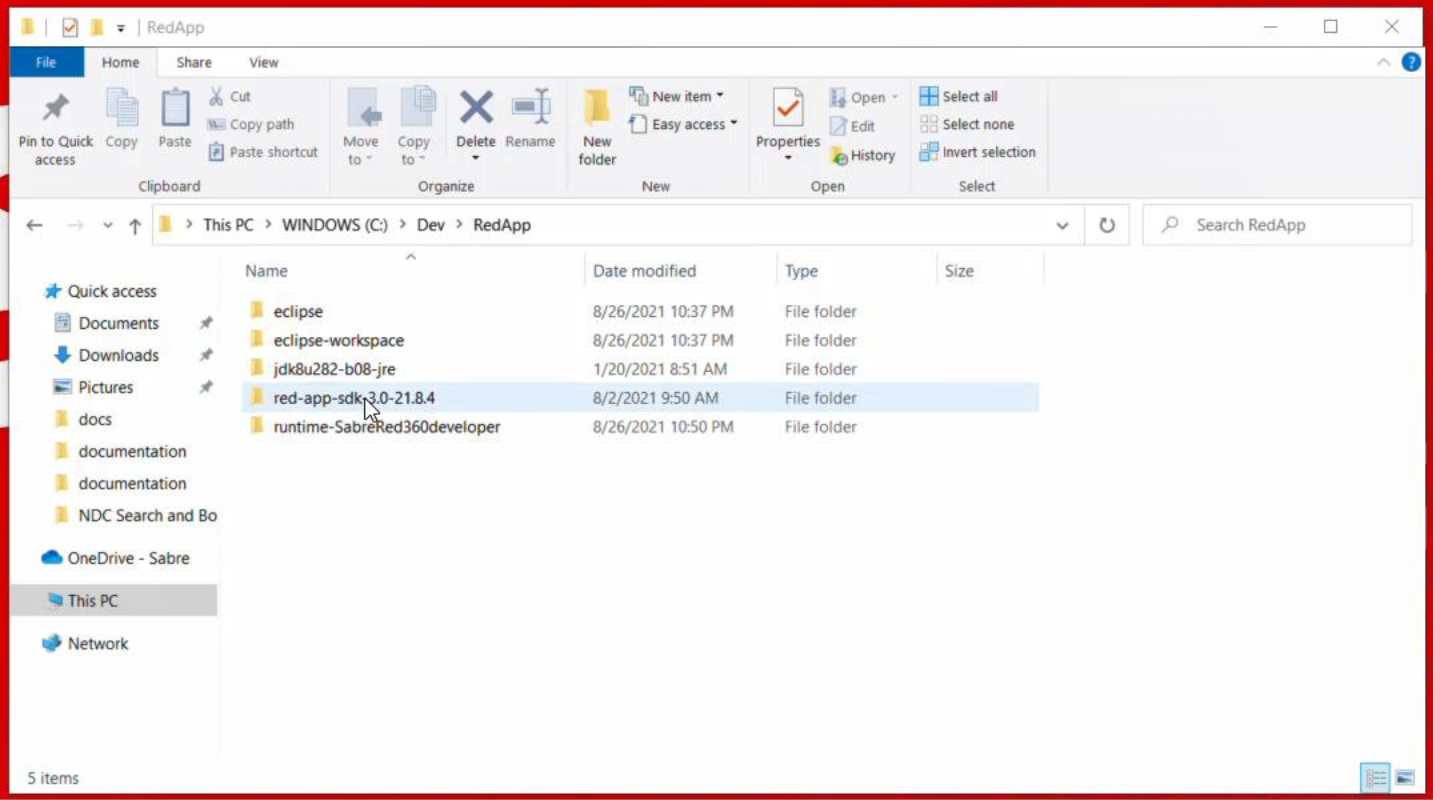
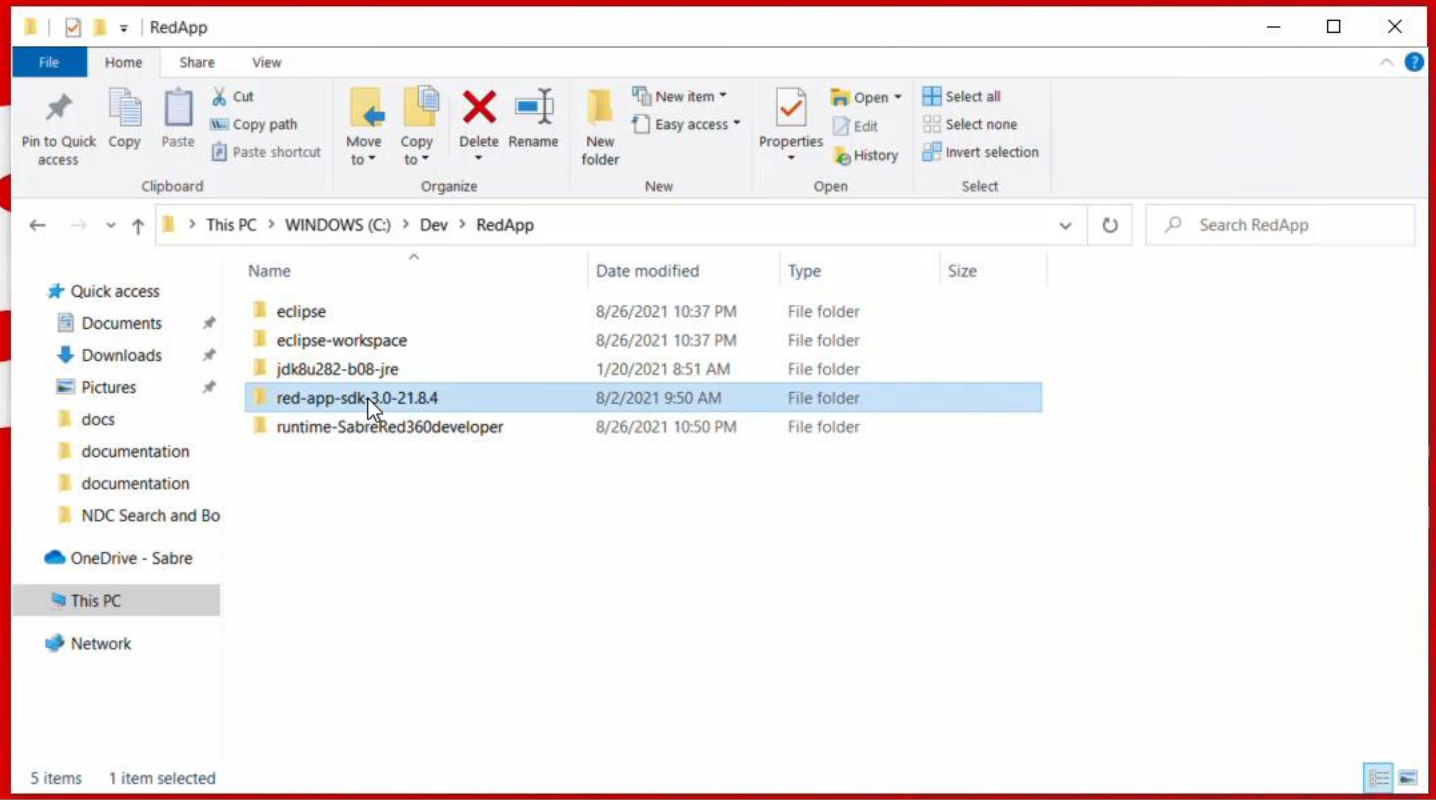
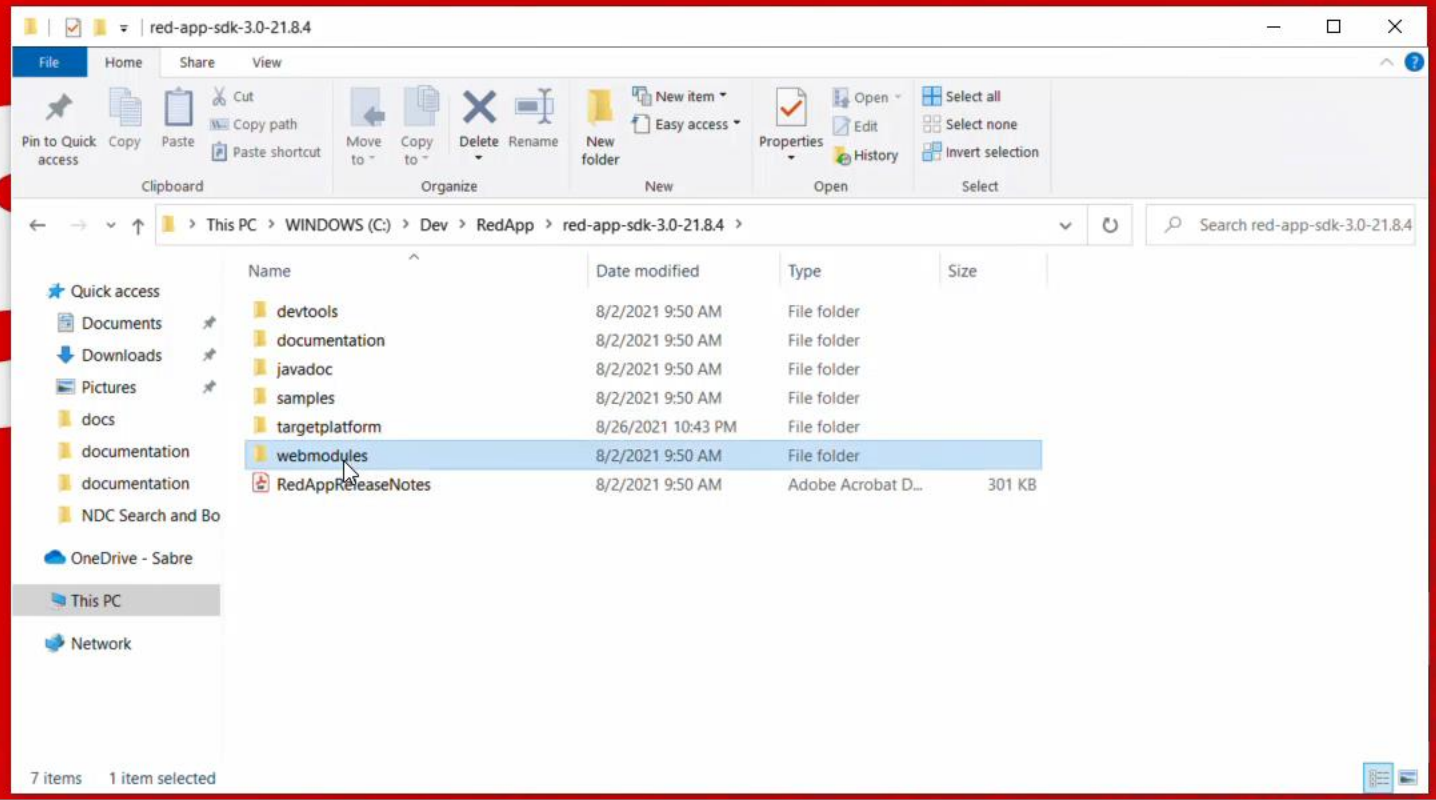


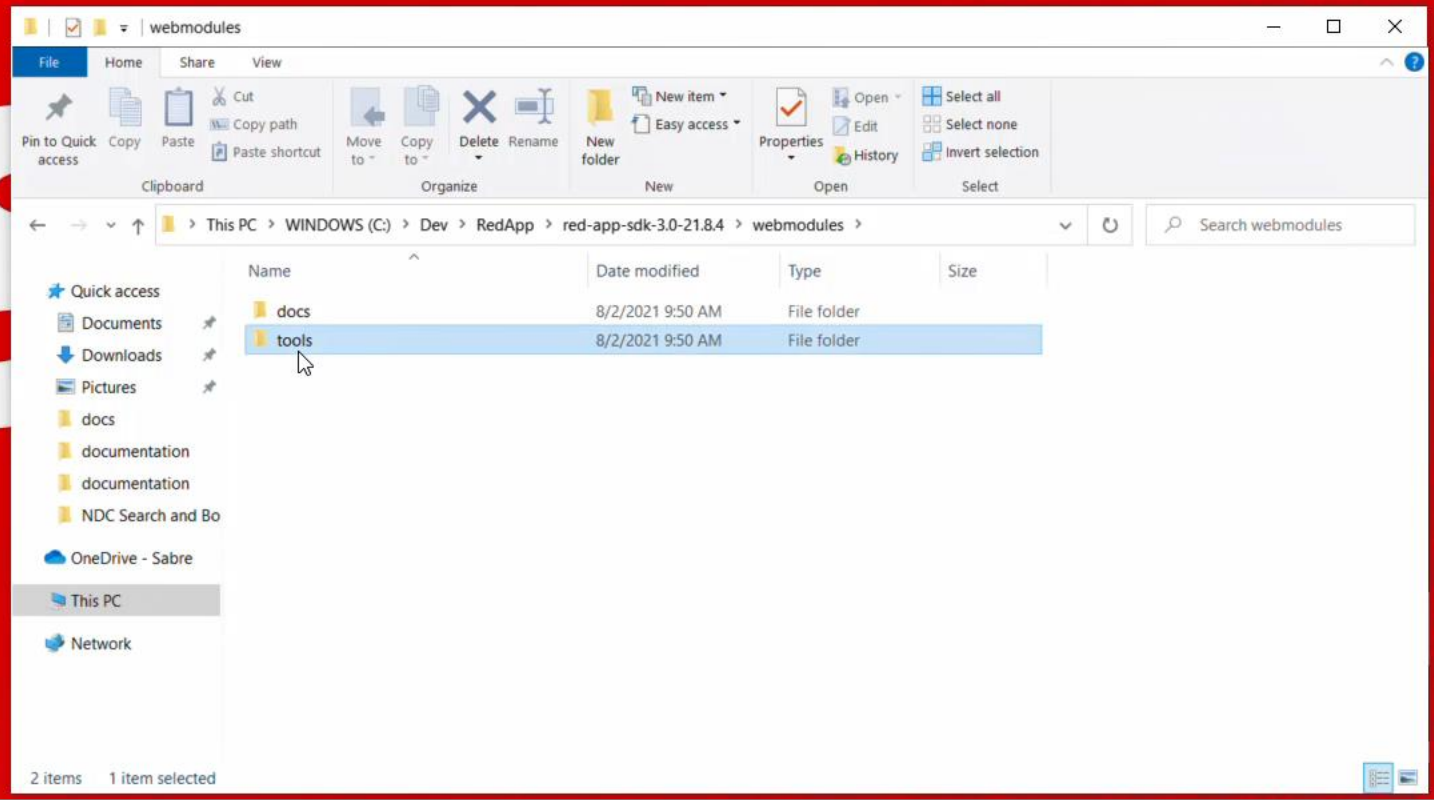
Locate the folder where you extracted SDK files



Open SDK main folder (named red-app-sdk[version])

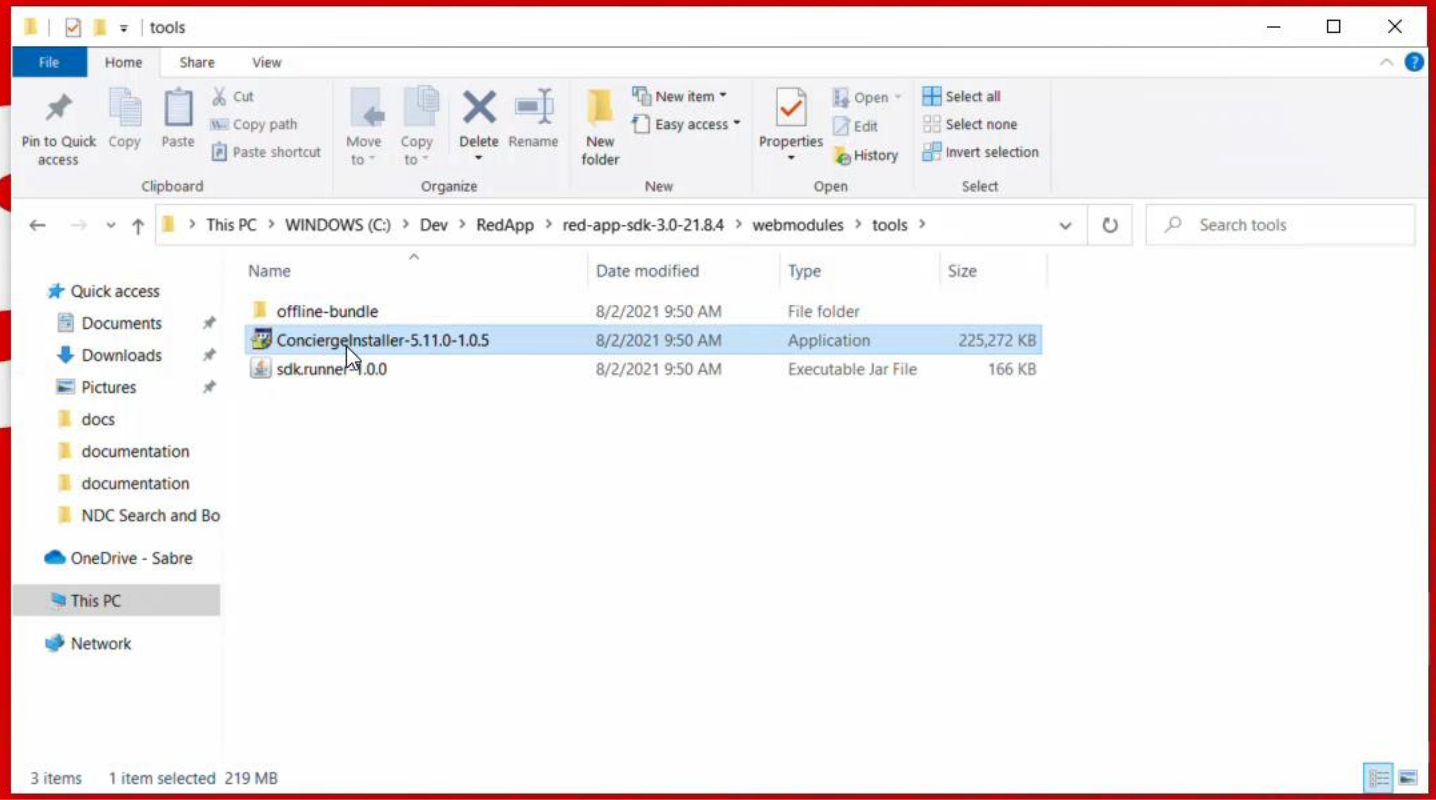


navigate to webmodules subfolder

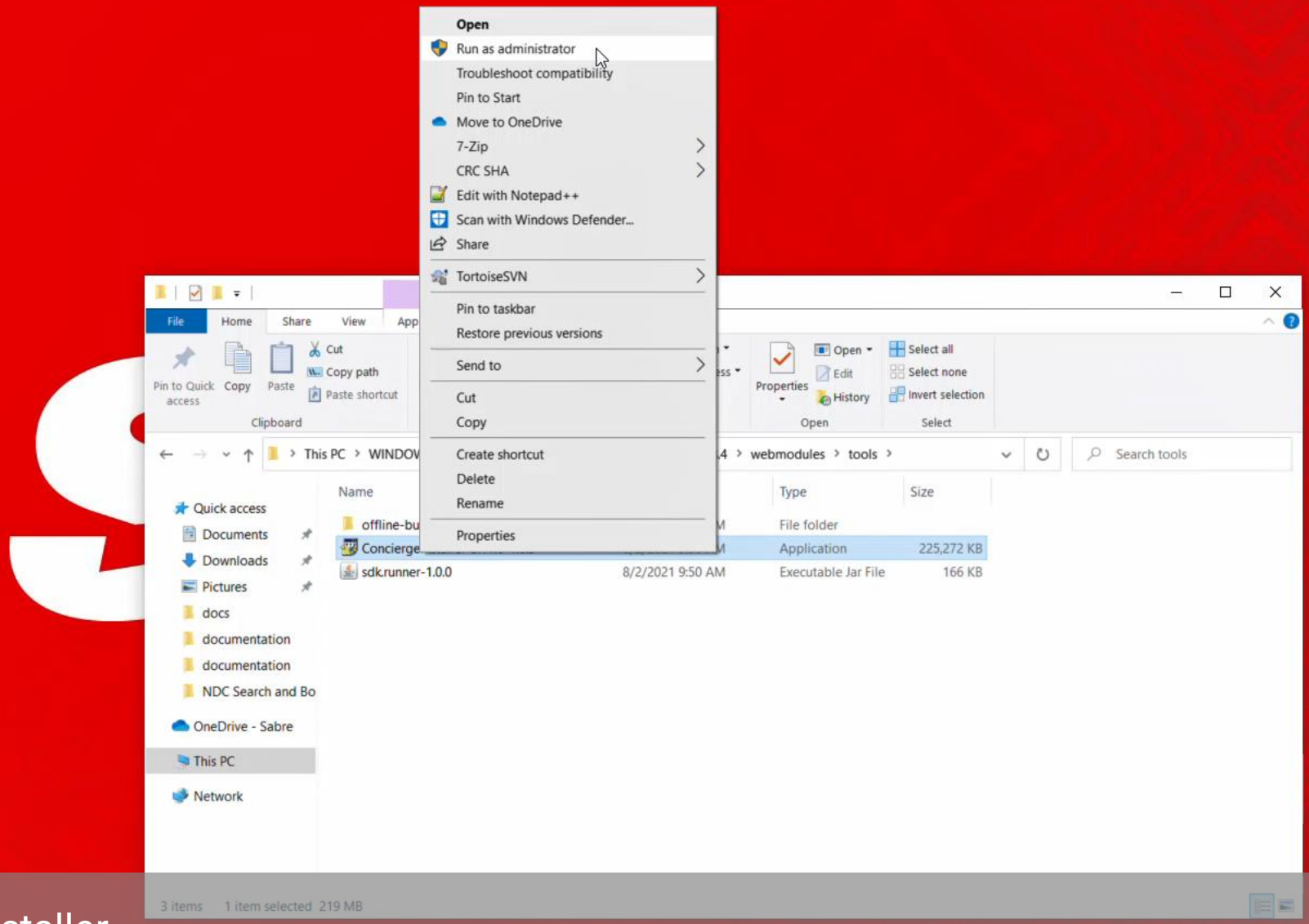


then tools

10:52 PM
8/26/2021

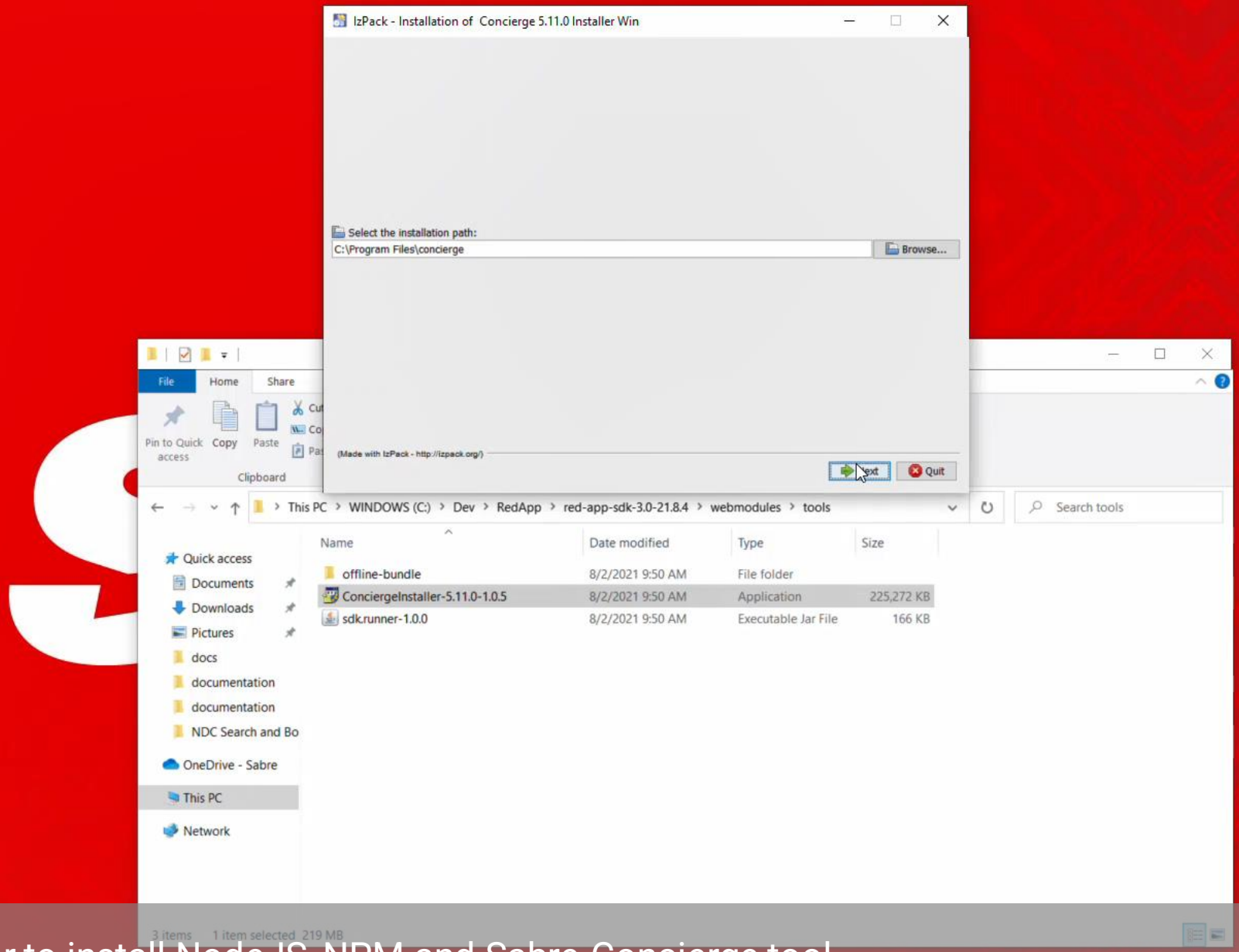


Locate the ConciergeInstaller executable (.jar file on macOS)



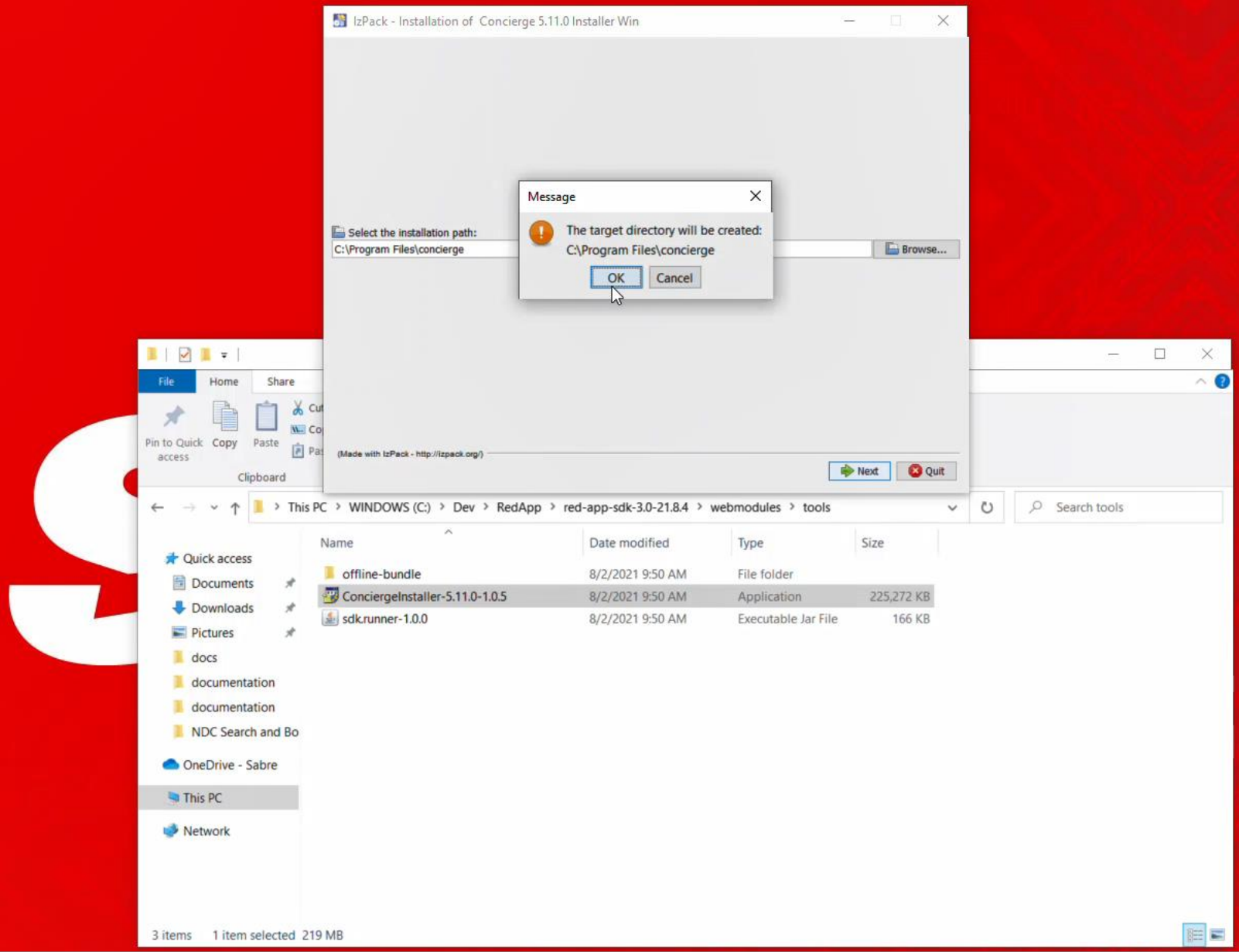
Run Sabre Concierge installer

*** It's recommended to run installer with Administrator rights, given it needs permission to create symbolic links and directories, it may fail otherwise.



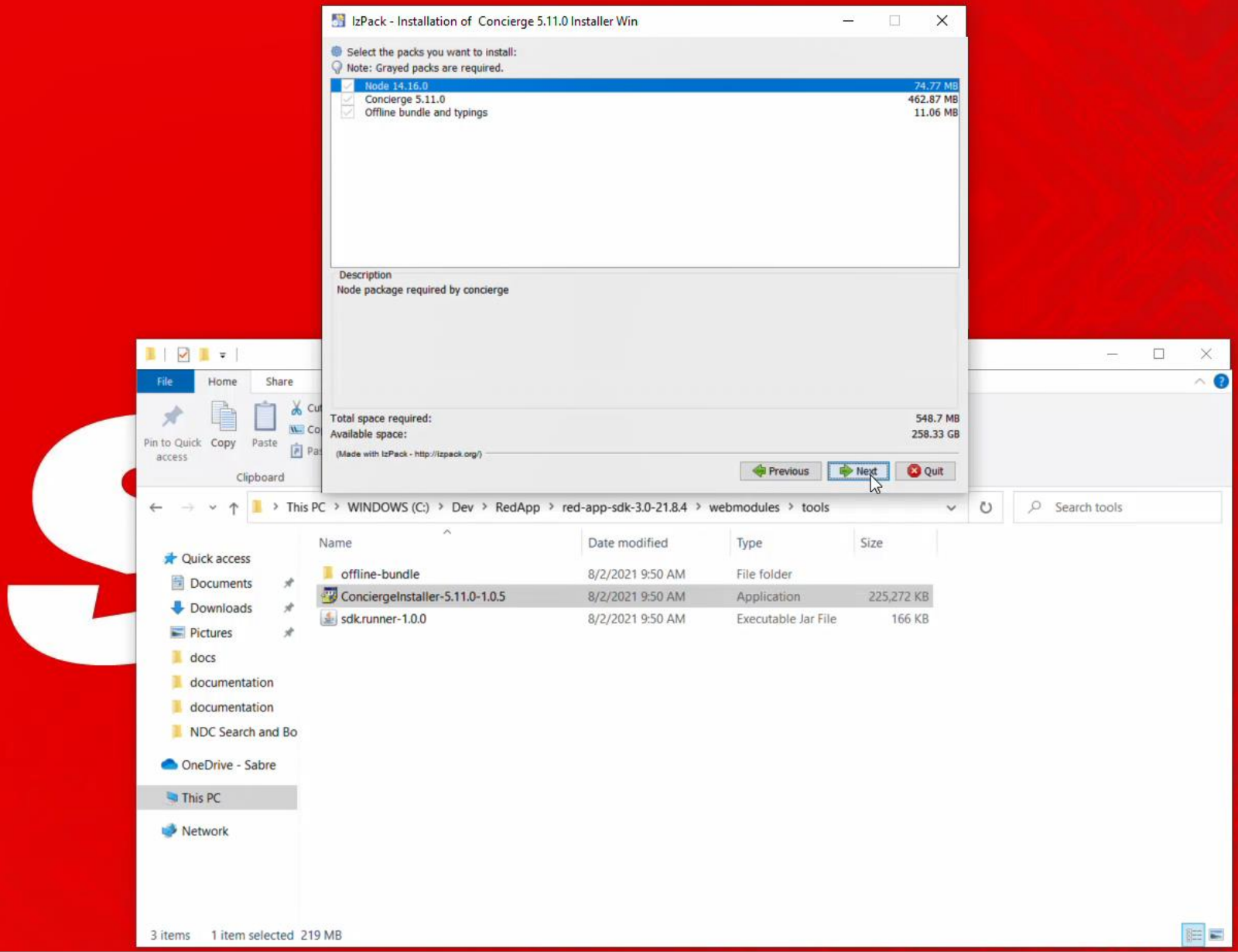
select destination folder to install NodeJS, NPM and Sabre Concierge tool.

*defaults to Program Files on the PC, but depending on the netowrk / user policies it would be recommended to left it out of Program files to avoid permission issues (like C:\Dev\RedApps\Concierge)

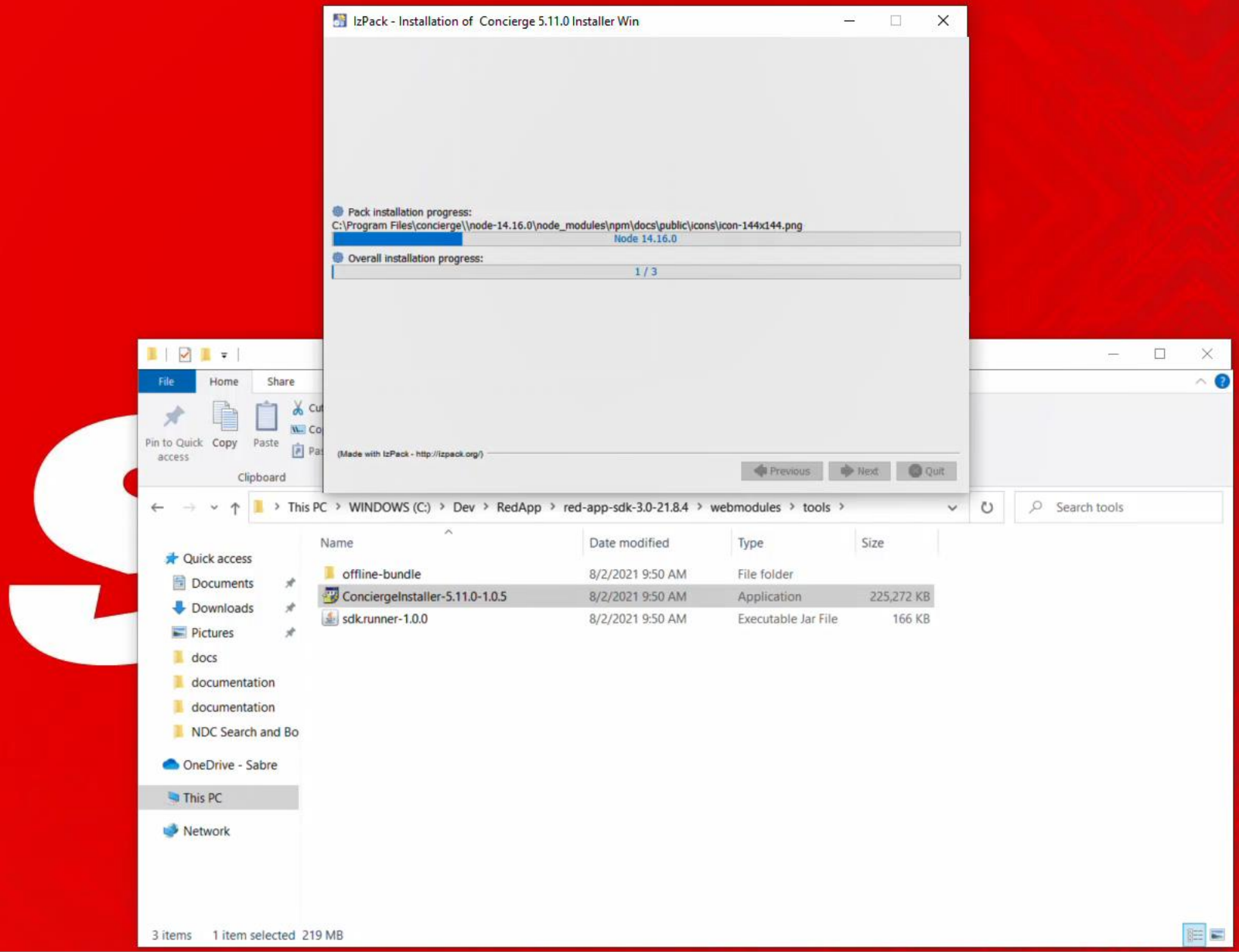


confirm Directory creation

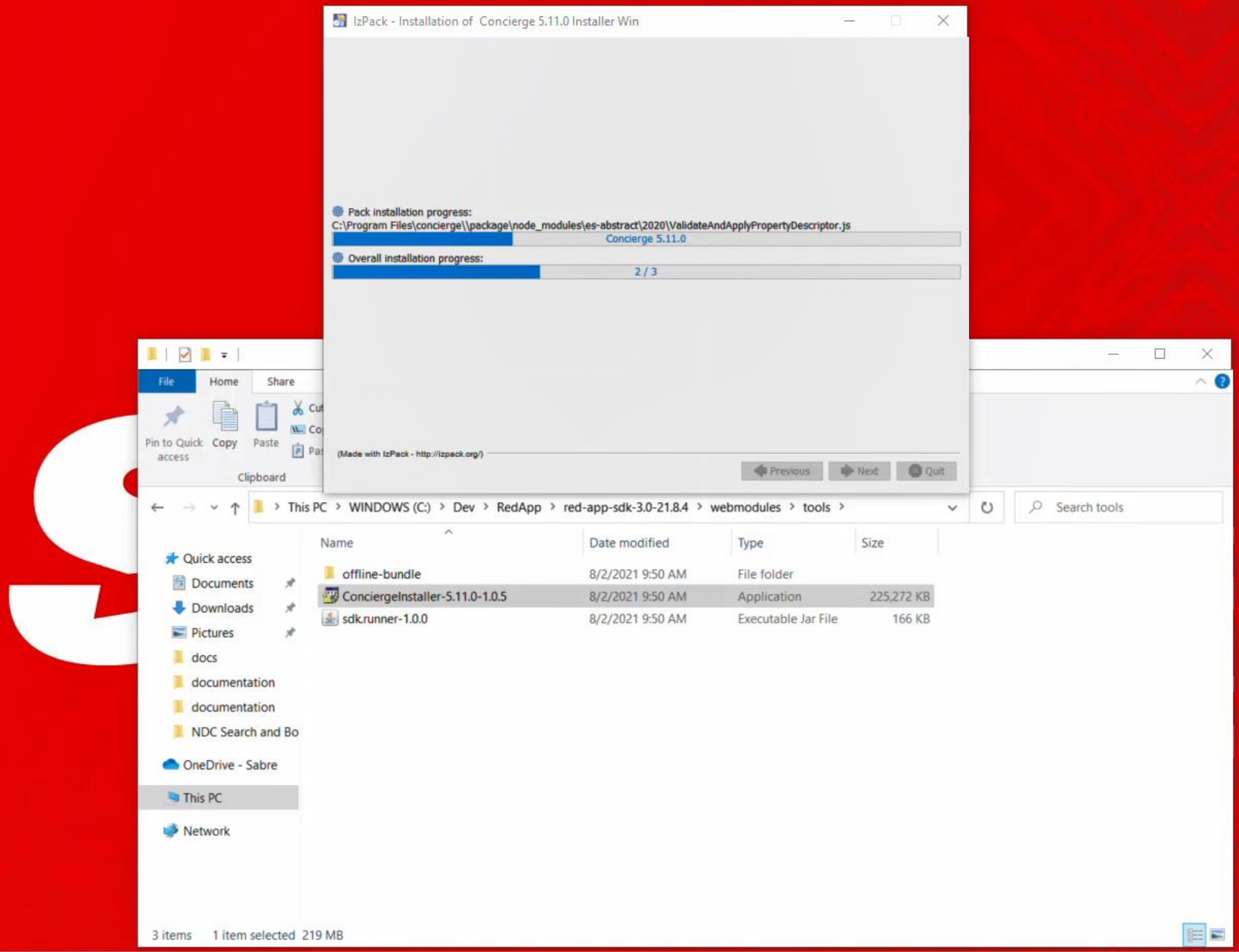
10:52 PM
8/26/2021



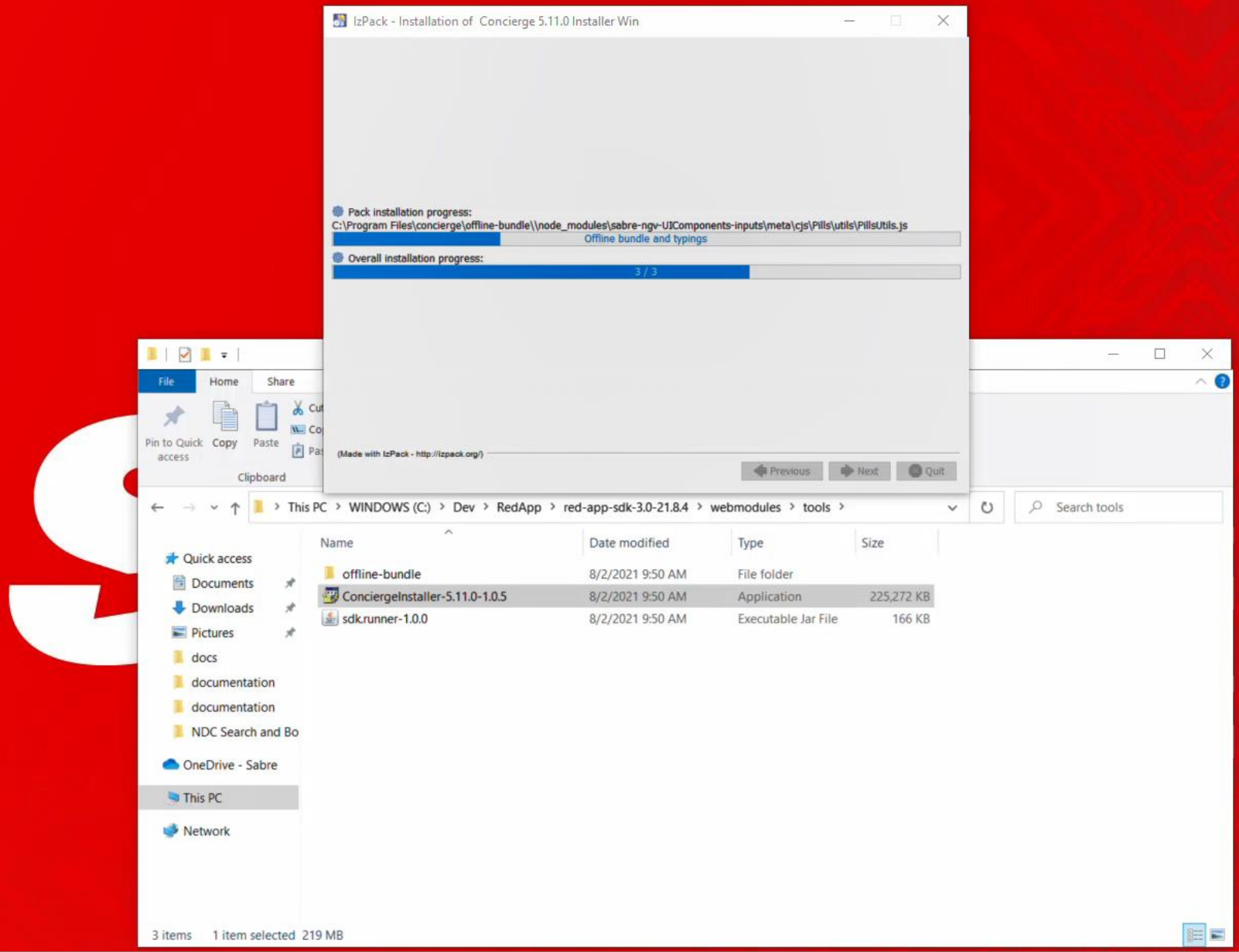
and packages to install then hit Next button



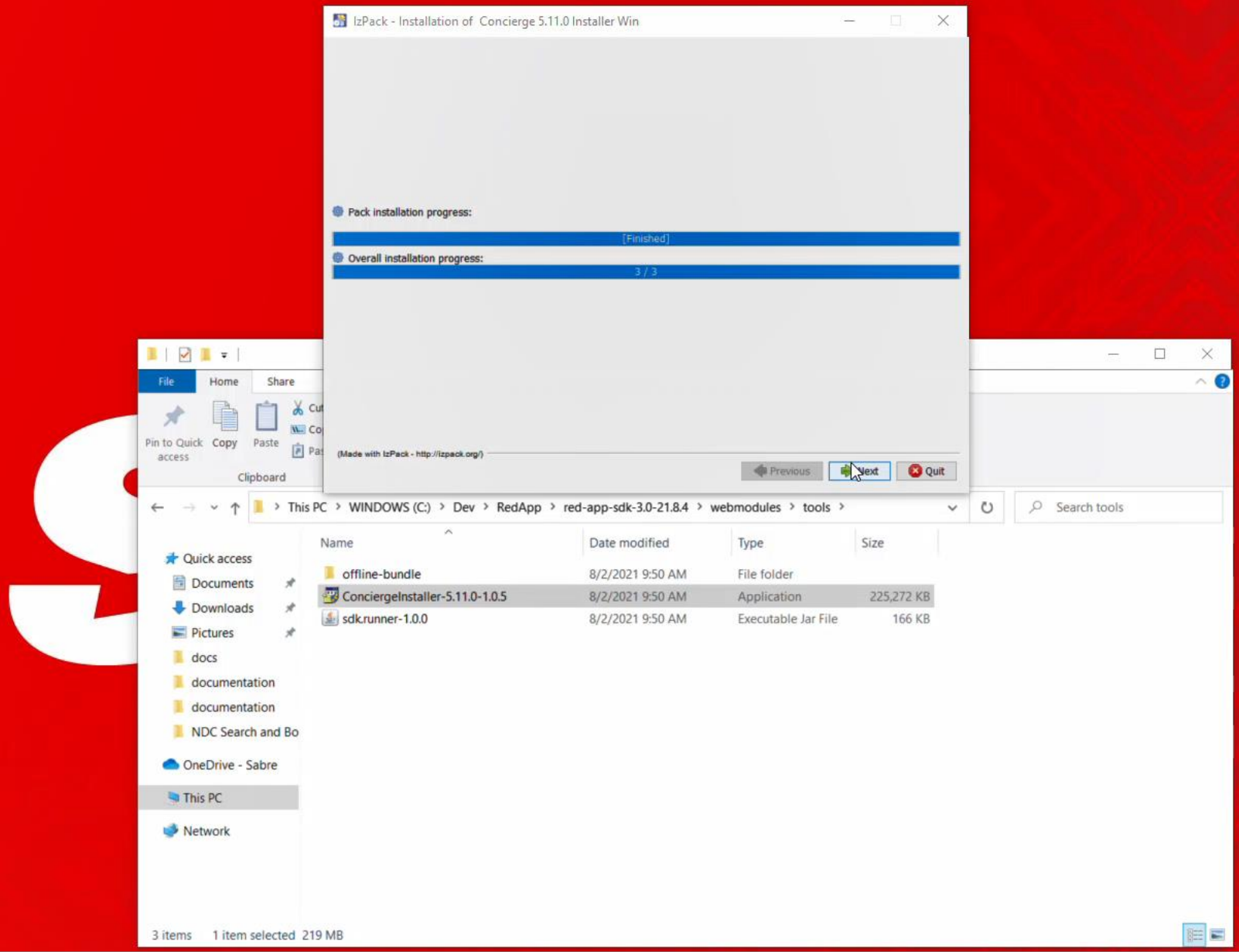
NodeJS and NPM are installed by default



then Sabre concierge files are copied and validated through NPM (Node package manager), this may take few minutes, good opportunity for a coffee break...

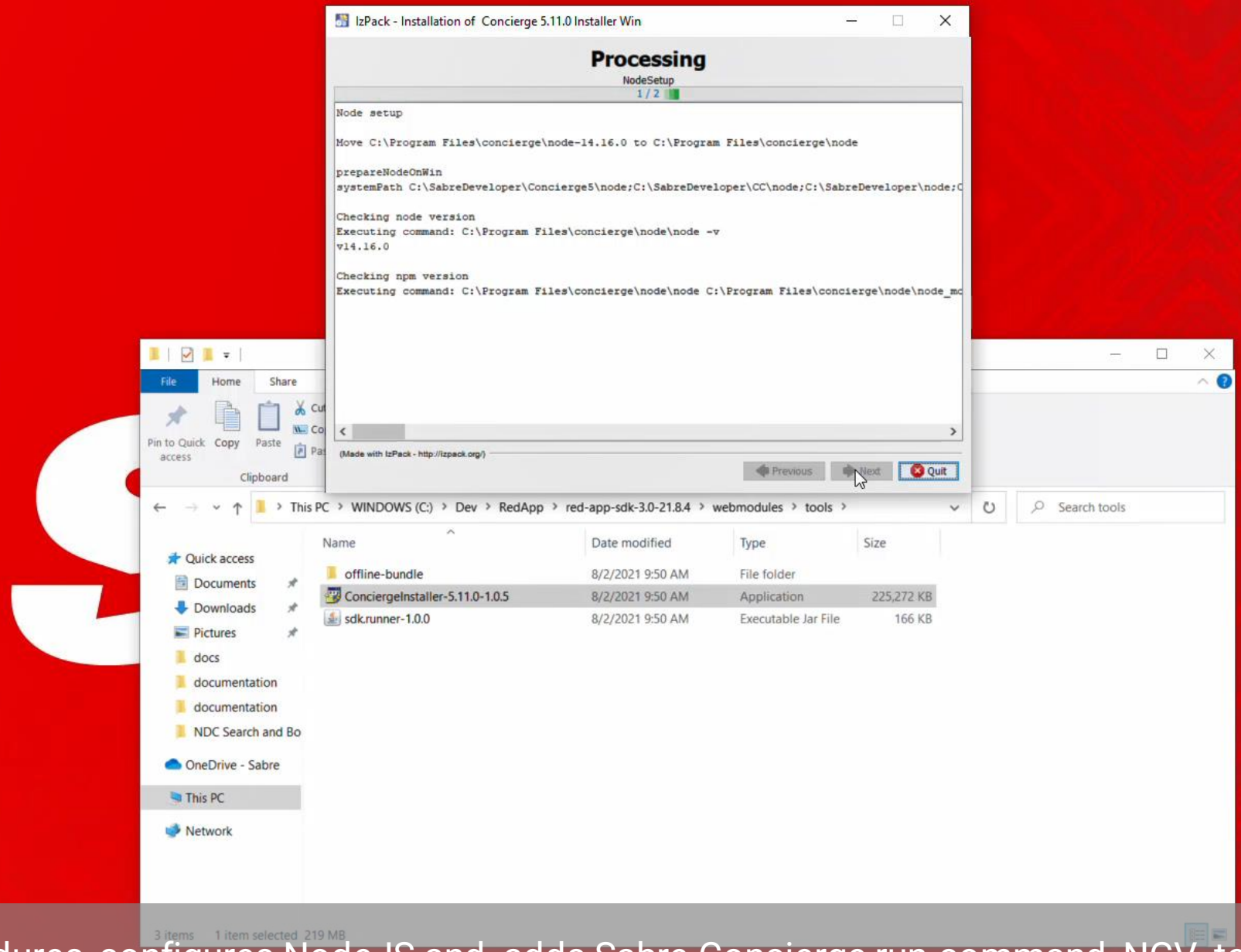


This process may take several minutes, but there is no user intervention needed

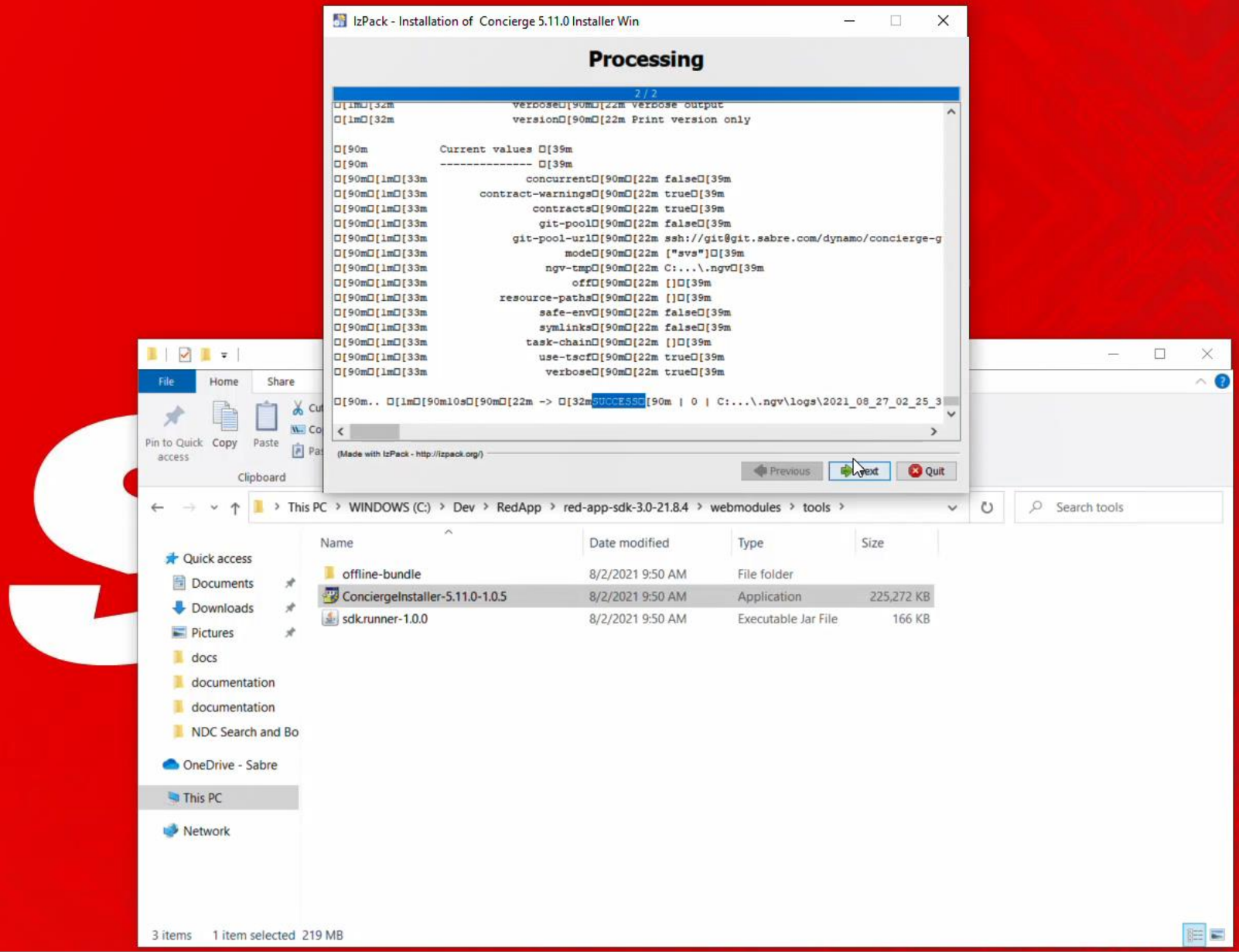


Files copied, hit Next button to start post copy procedures

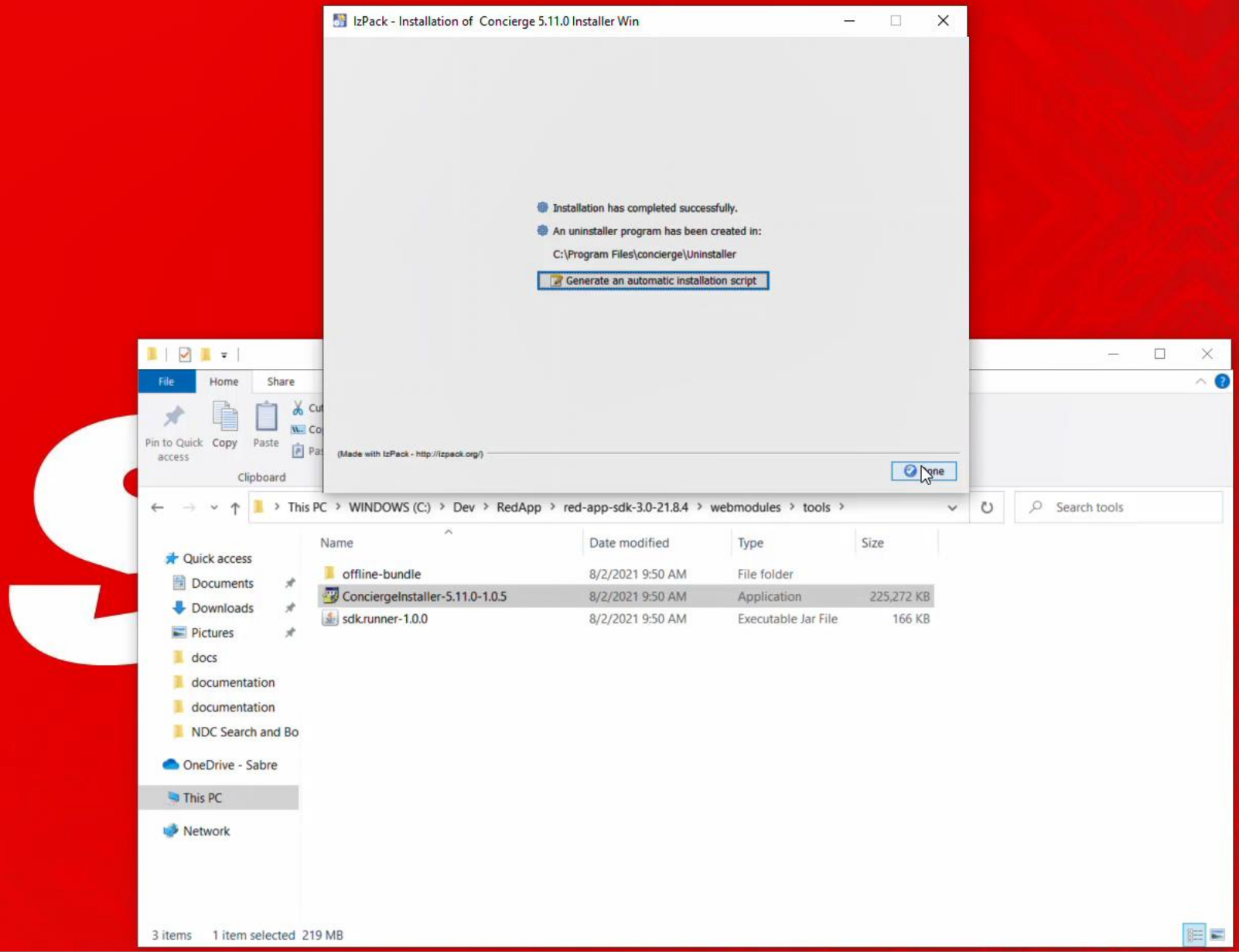
11:19 PM
8/26/2021



Post installation procedures, configures NodeJS and adds Sabre Concierge run command, NGV, to the system path, then SABRE_CONCIERGE Typescript package is bound to the system and ready to be referenced during Web Red Apps development.

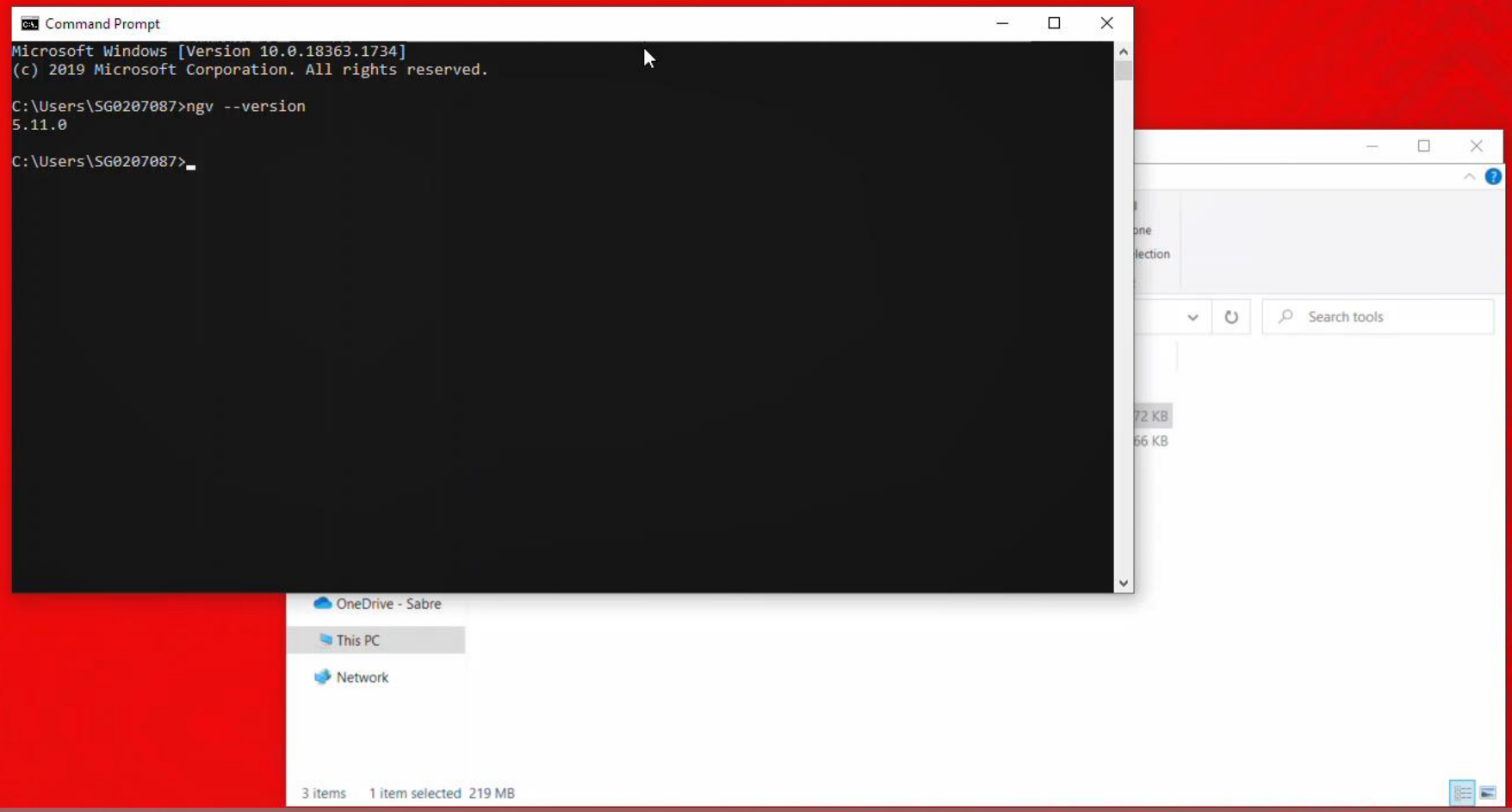


wait for SUCCESS message on installer log window, hit Next when available to finish installation procedure.

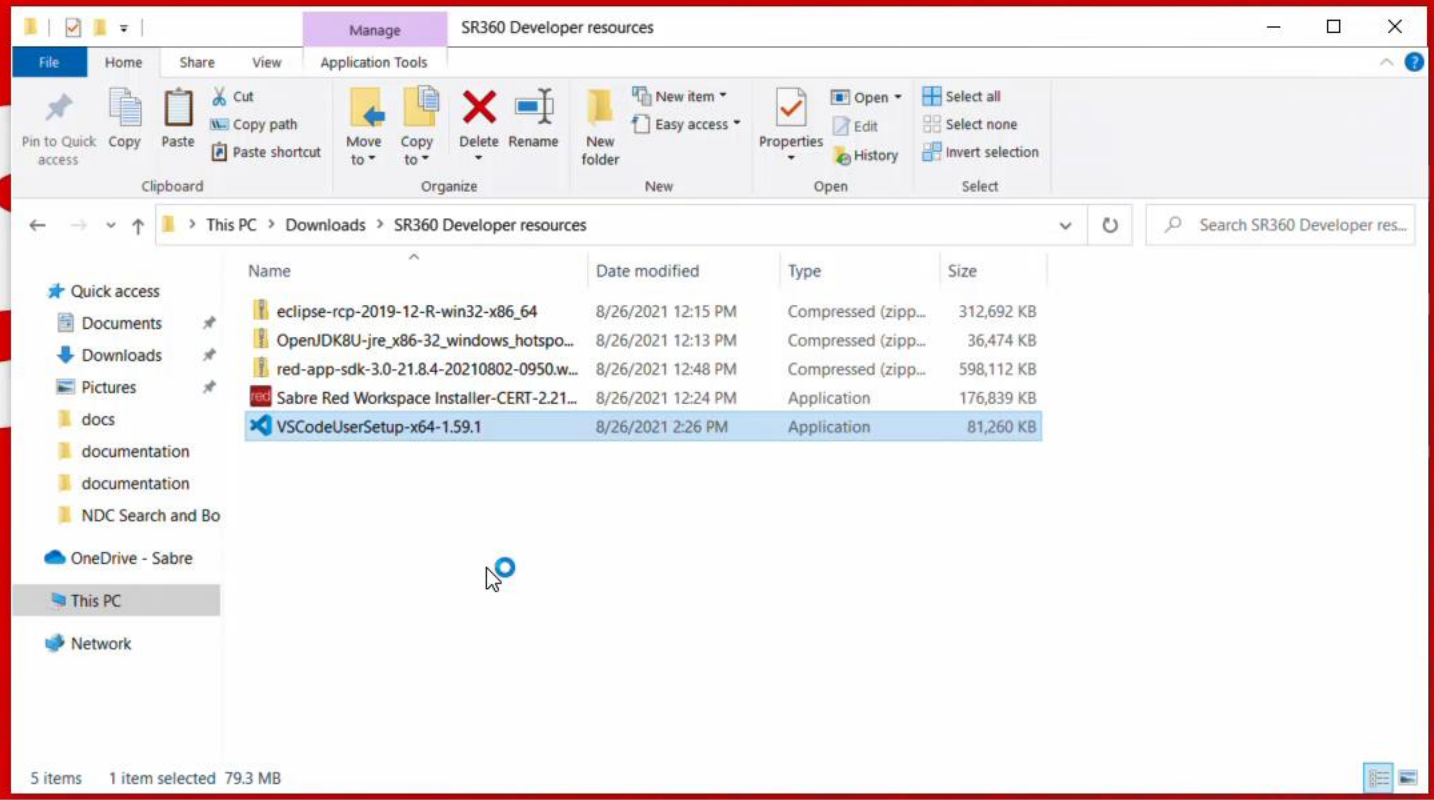


you are done with Concierge Installer

11:25 PM
8/26/2021

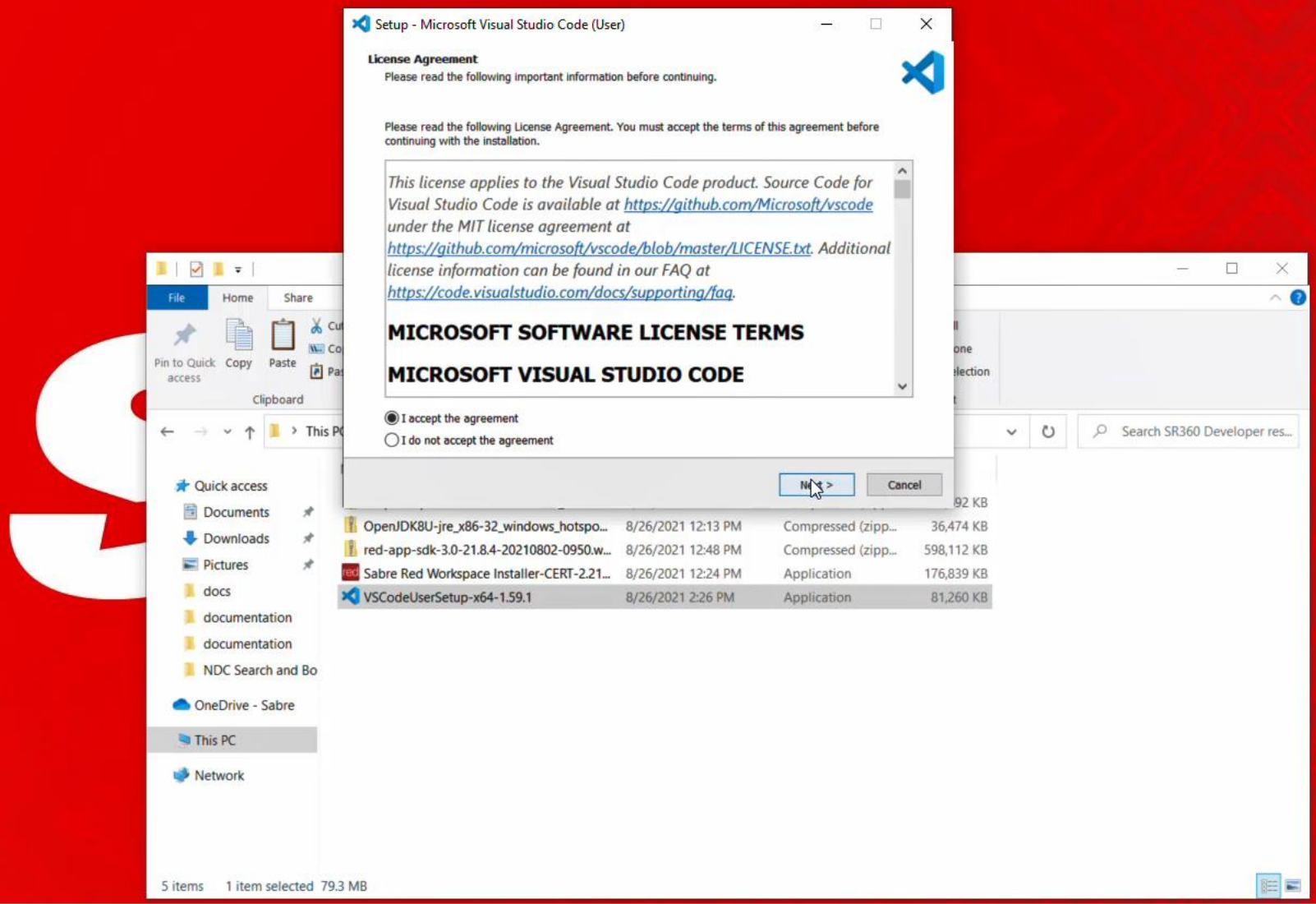


to validate installation open Command Prompt or Terminal window and type NGV --version command, it should echo the version of Sabre Concierge Tool just installed

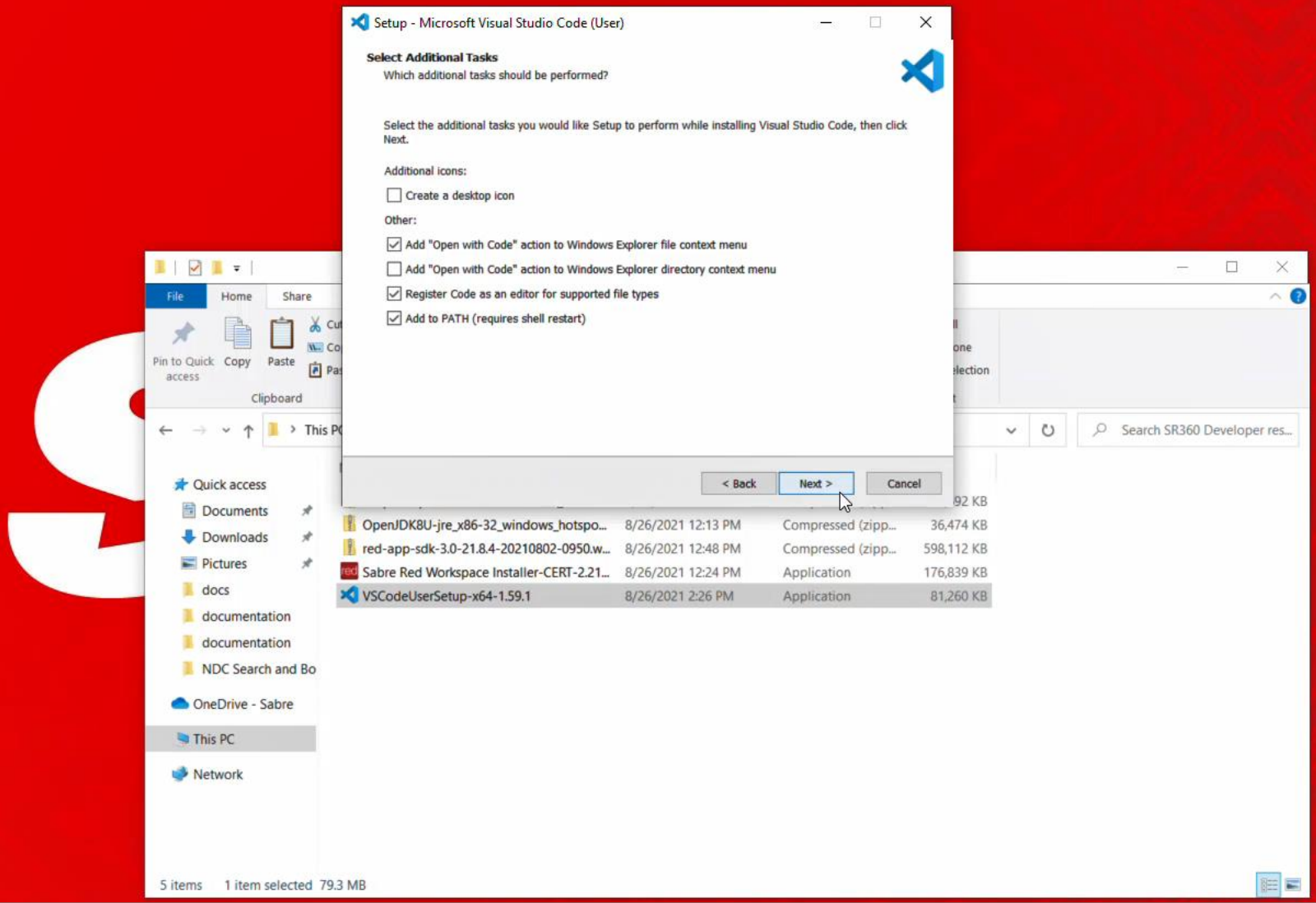


Now let’s install Visual Studio code, as optional Editor for Web Modules, using Typescript language

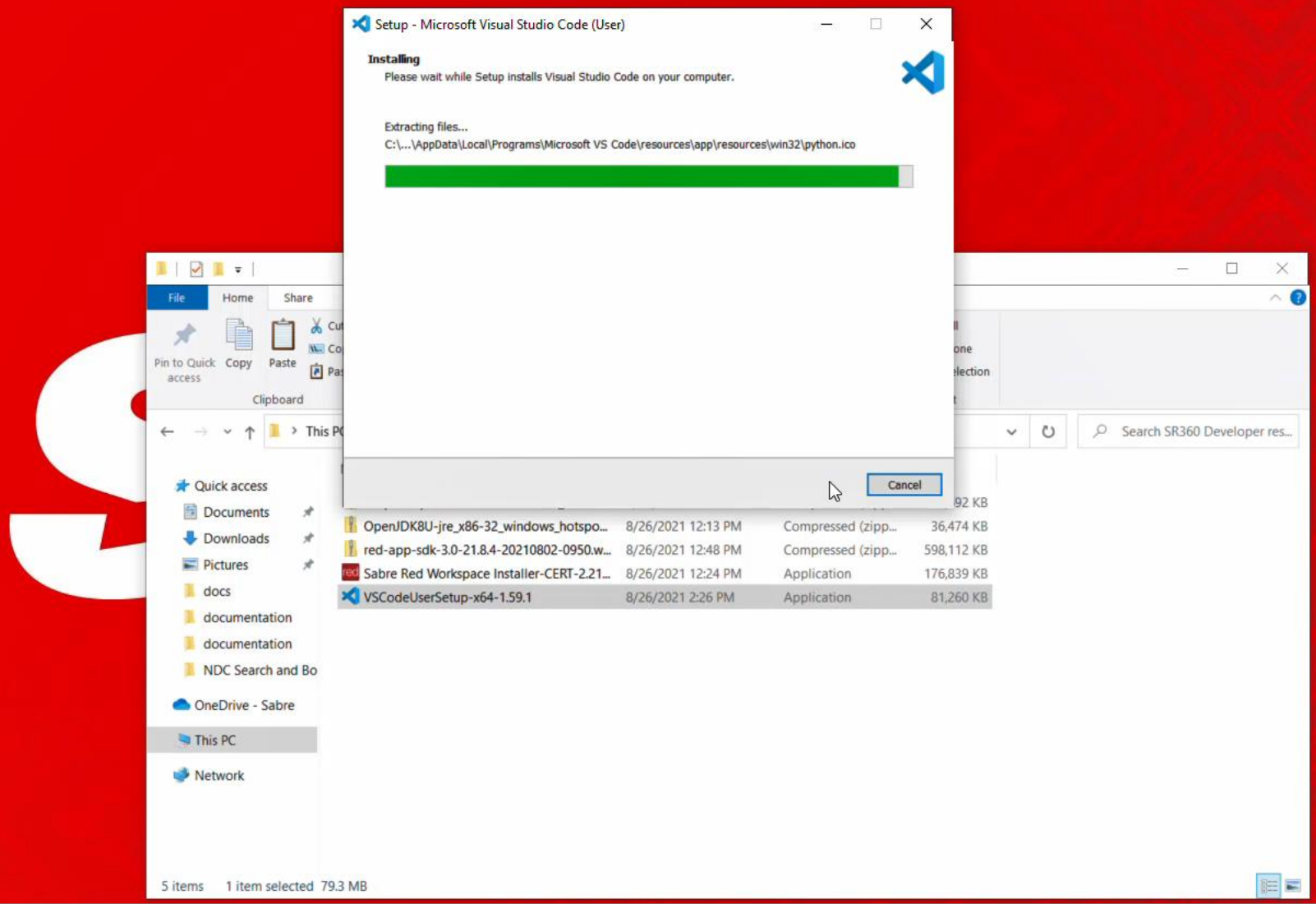
11:27 PM
8/26/2021



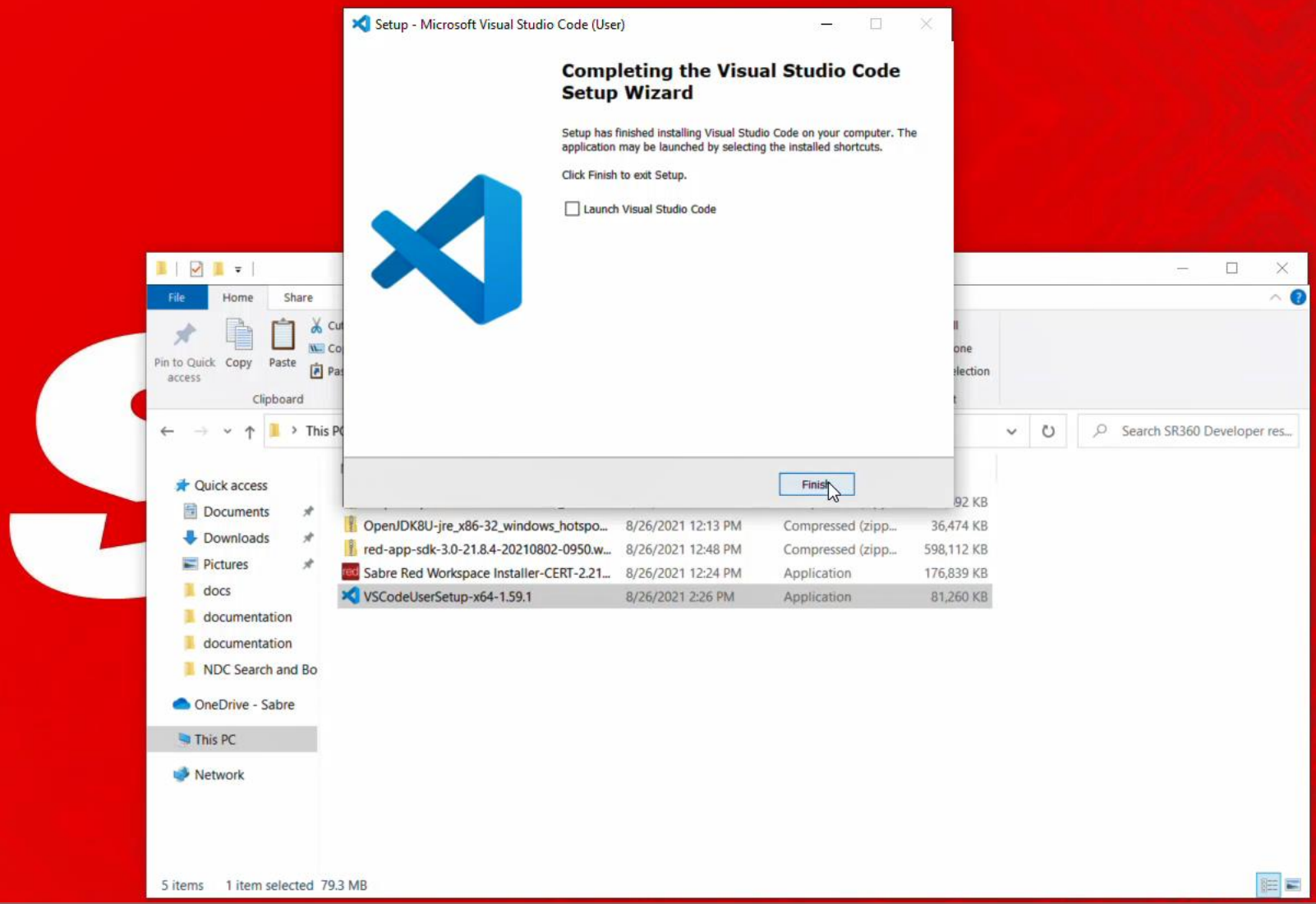
Just start installer App and follow instructions on the screen



Choose additional tasks as desired



Visual Studio Code files are copied



Then setup is finished

Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project

Developers Resources & Downloads

Setup Development Environment

Build and Debug Red Apps

Bundle and Publishing procedures

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Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project

Build and Debug Red Apps

Build Red Apps

Basic Red App project structure

Run / Debug Red Apps

Sabre Red 360 Desktop

Sabre Red Web

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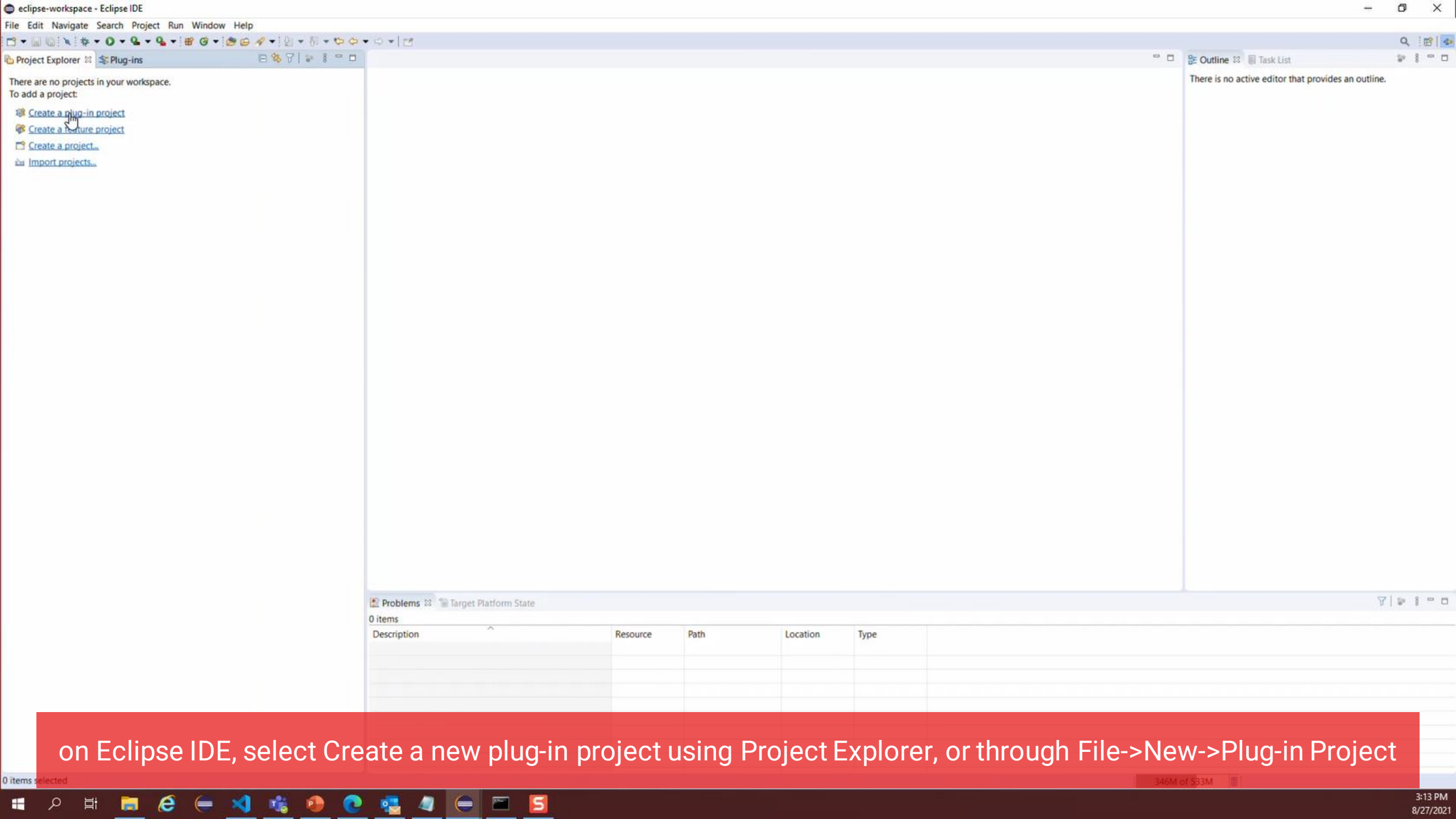
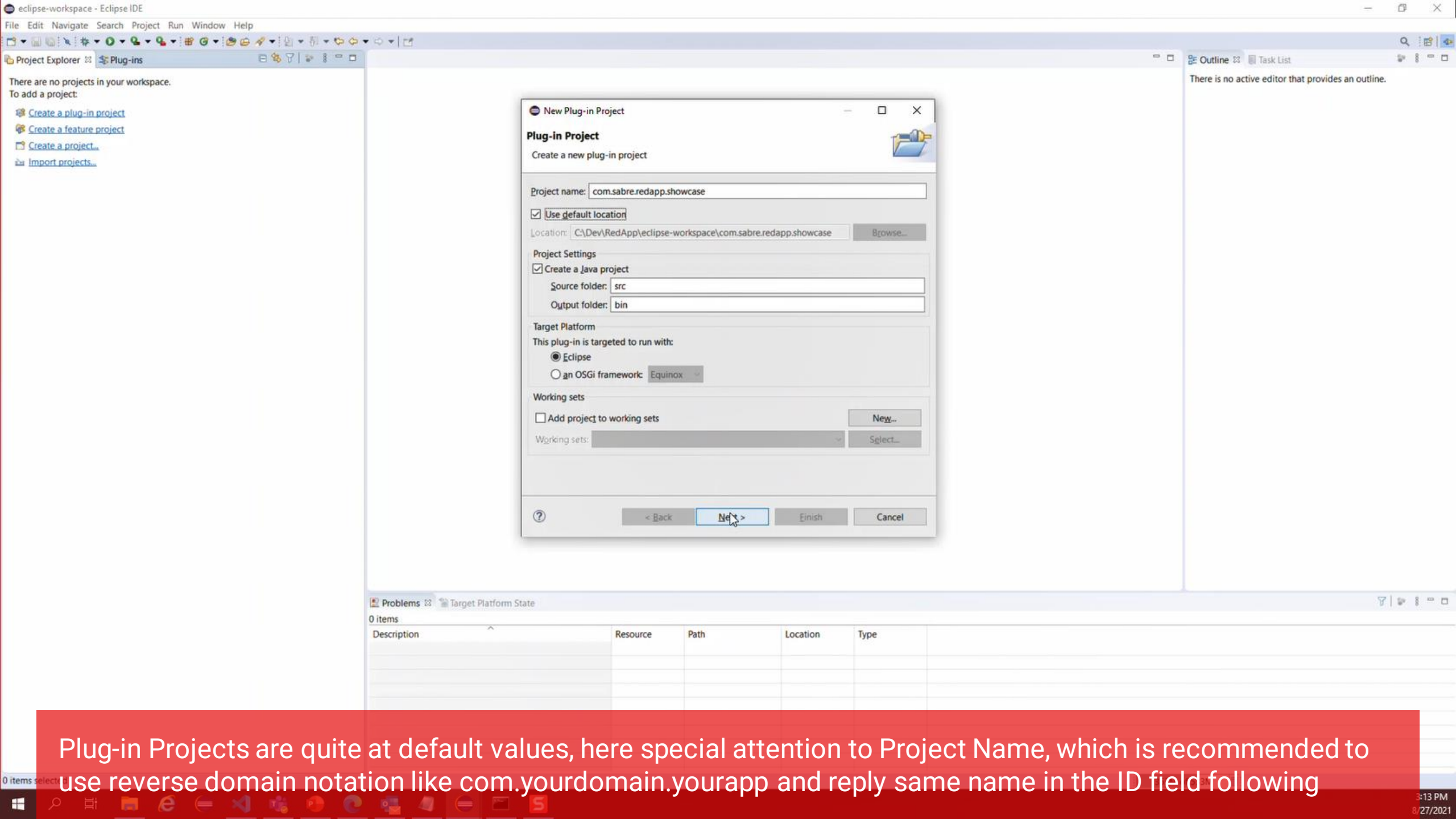
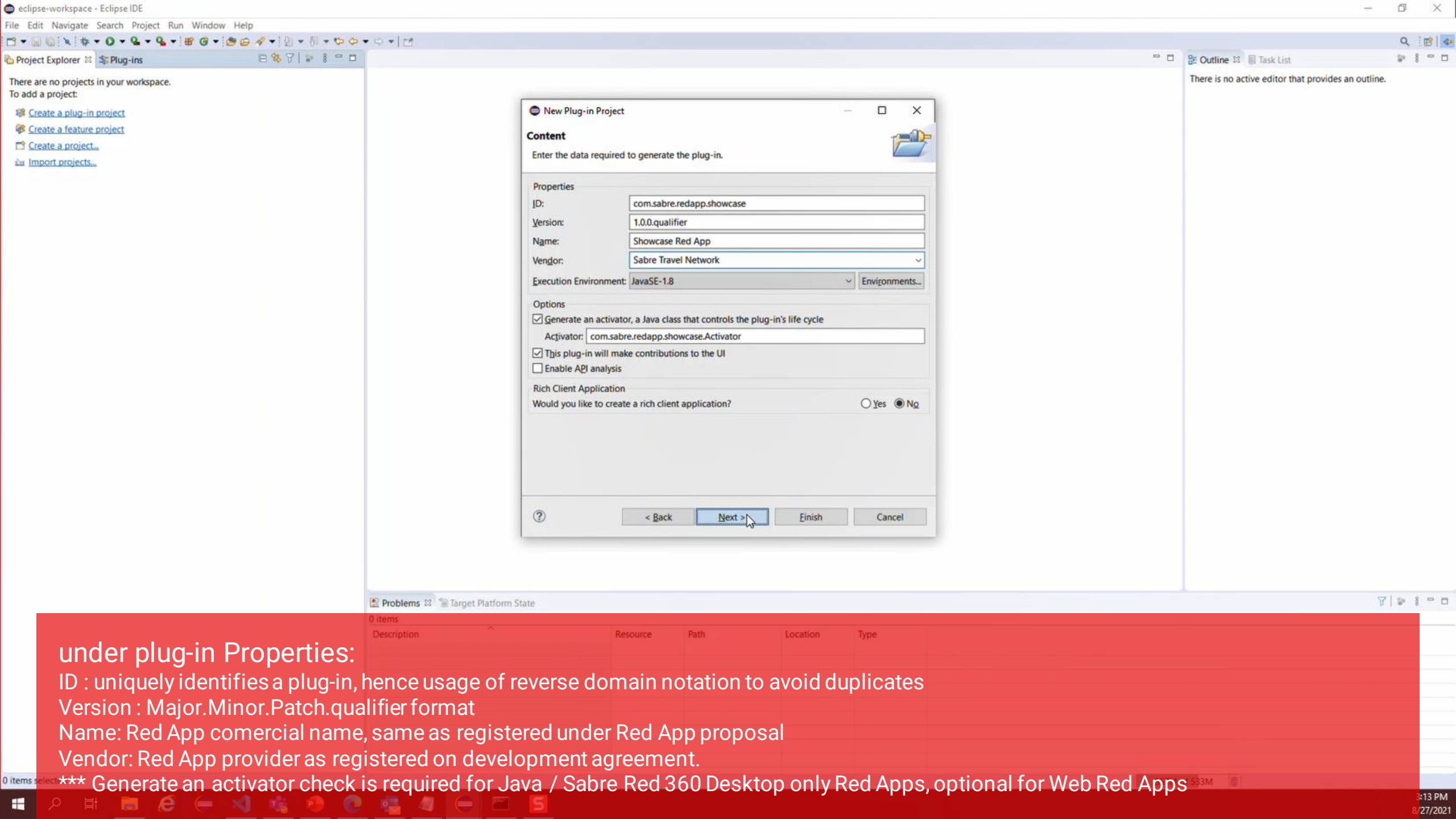
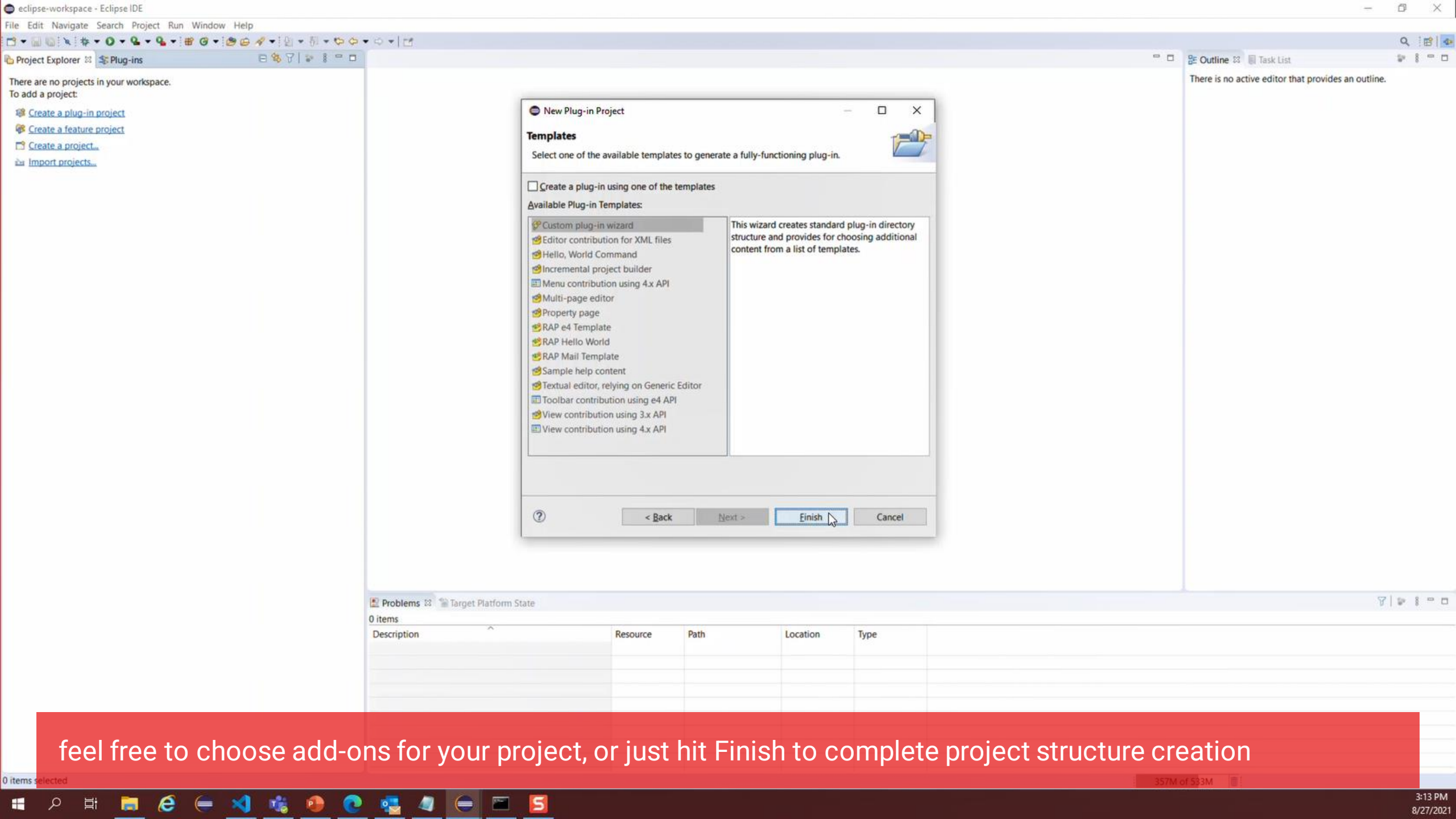

eclipse-workspace - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
Plug-ins
There are no projects in your workspace.
To add a project:
Create a plug-in project
Create a feature project
Create a project...
Import projects...
Outline
Task List
There is no active editor that provides an outline.
Problems
Target Platform State
0 items
Description
Resource
Path
Location
Type
0 items selected
346M of 533M
on Eclipse IDE, select Create a new plug-in project using Project Explorer, or through File->New->Plug-in Project
3:13 PM
8/27/2021

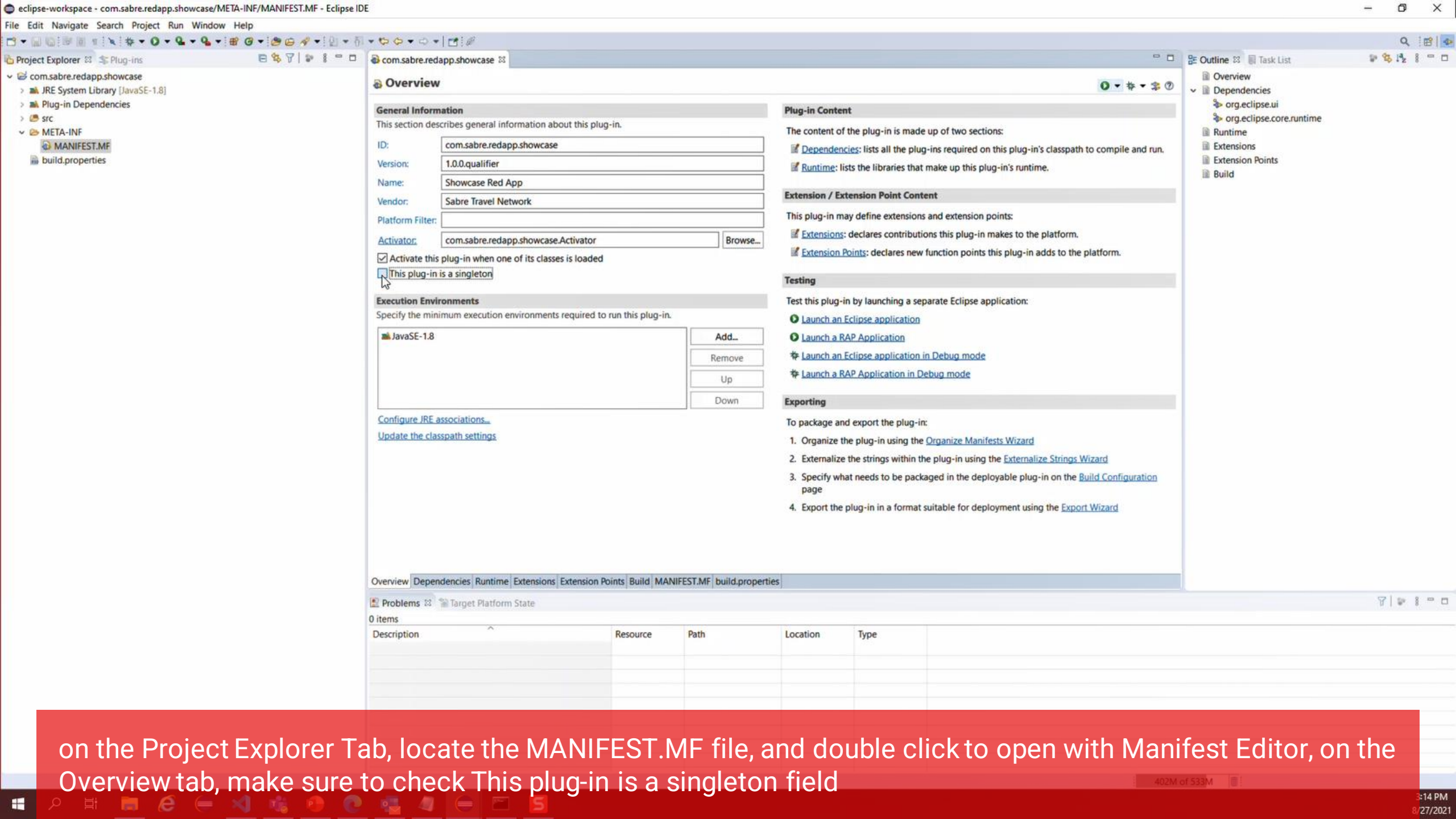

eclipse-workspace - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
Plug-ins
There are no projects in your workspace.
To add a project:
Create a plug-in project
Create a feature project
Create a project...
Import projects...
Outline
Task List
There is no active editor that provides an outline.
New Plug-in Project
Plug-in Project
Create a new plug-in project
Project name: com.sabre.redapp.showcase
Use default location
Location: C:\Dev\RedApp\eclipse-workspace\com.sabre.redapp.showcase
Browse...
Project Settings
Create a Java project
Source folder: src
Output folder: bin
Target Platform
This plug-in is targeted to run with:
Eclipse
an OSGi framework: Equinox
Working sets
Add project to working sets
New...
Working sets:
Select...
< Back
Next >
Finish
Cancel
Problems
Target Platform State
0 items
Description
Resource
Path
Location
Type
Plug-in Projects are quite at default values, here special attention to Project Name, which is recommended to use reverse domain notation like com.yourdomain.yourapp and reply same name in the ID field following



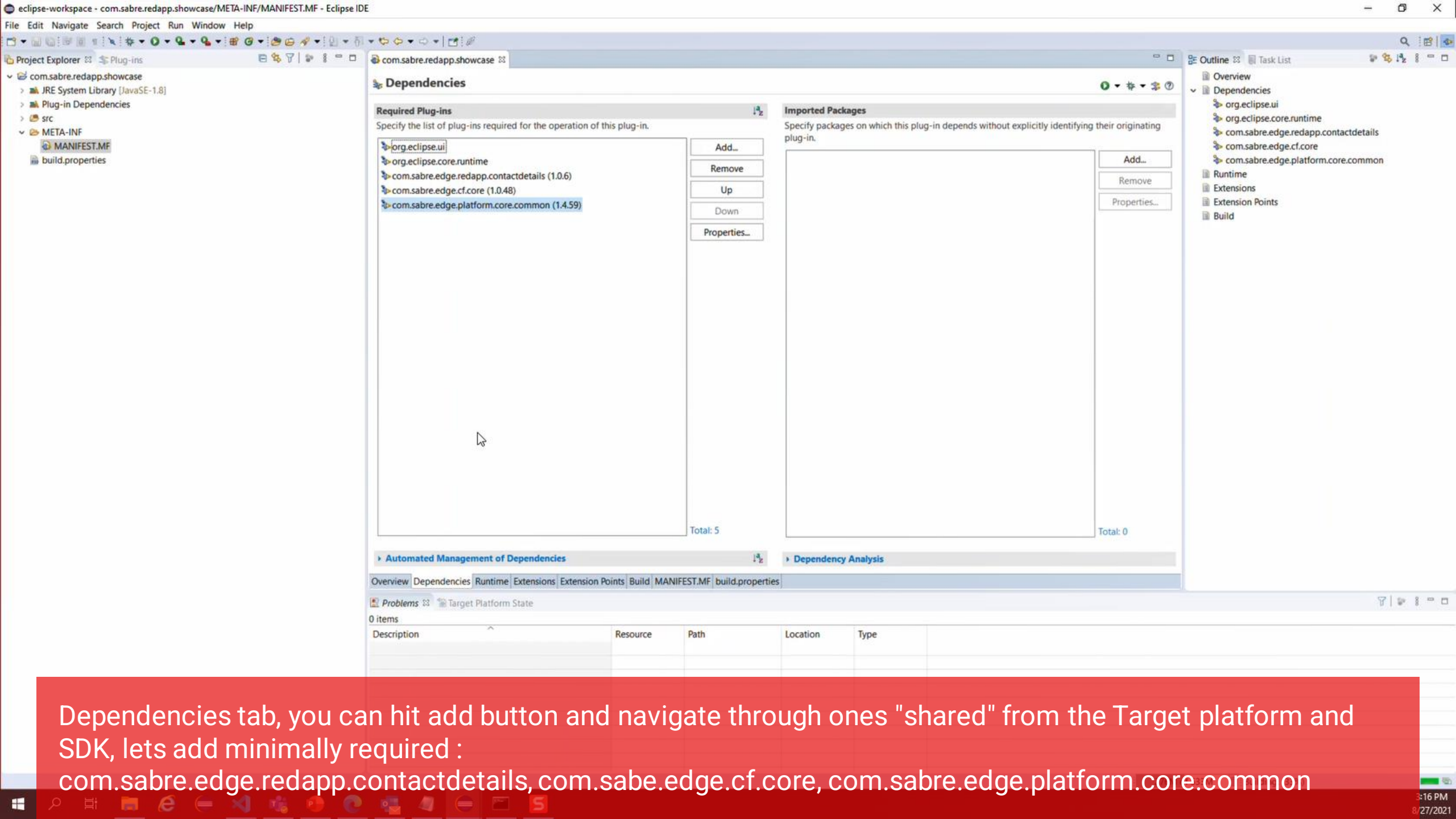
under plug-in Properties:

ID : uniquely identifies a plug-in, hence usage of reverse domain notation to avoid duplicates
Version : Major.Minor.Patch.qualifier format
Name: Red App comercial name, same as registered under Red App proposal
Vendor: Red App provider as registered on development agreement.
*** Generate an activator check is required for Java / Sabre Red 360 Desktop only Red Apps, optional for Web Red Apps

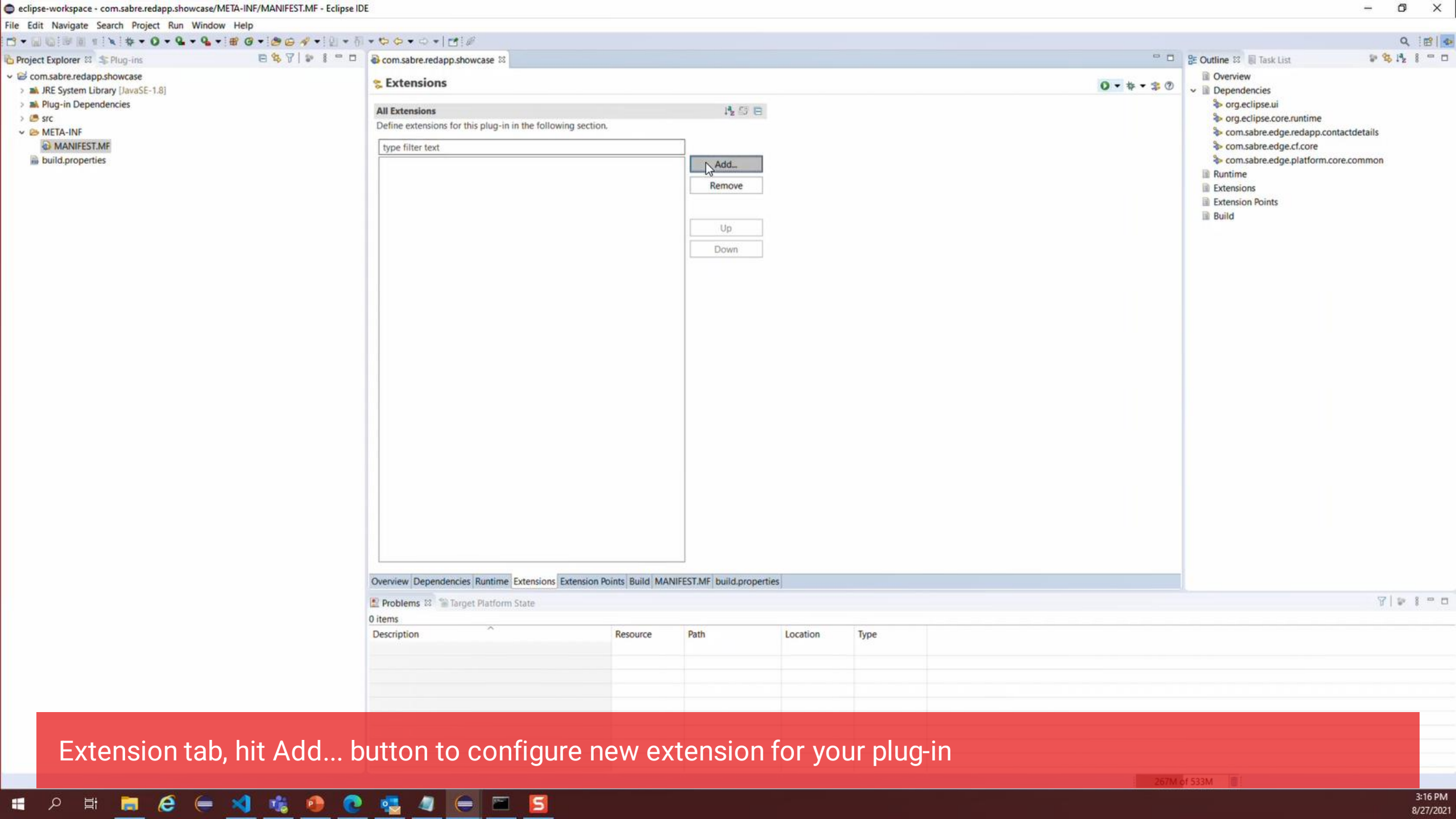

eclipse-workspace - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
Plug-ins
There are no projects in your workspace.
To add a project:
Create a plug-in project
Create a feature project
Create a project...
Import projects...
New Plug-in Project
Templates
Select one of the available templates to generate a fully-functioning plug-in.
Create a plug-in using one of the templates
Available Plug-in Templates:
Custom plug-in wizard
Editor contribution for XML files
Hello, World Command
Incremental project builder
Menu contribution using 4.x API
Multi-page editor
Property page
RAP e4 Template
RAP Hello World
RAP Mail Template
Sample help content
Textual editor, relying on Generic Editor
Toolbar contribution using e4 API
View contribution using 3.x API
View contribution using 4.x API
This wizard creates standard plug-in directory structure and provides for choosing additional content from a list of templates.
< Back
Next >
Finish
Cancel
Outline
Task List
There is no active editor that provides an outline.
Problems
Target Platform State
0 items
Description
Resource
Path
Location
Type
0 items selected
feel free to choose add-ons for your project, or just hit Finish to complete project structure creation
3:13 PM
8/27/2021

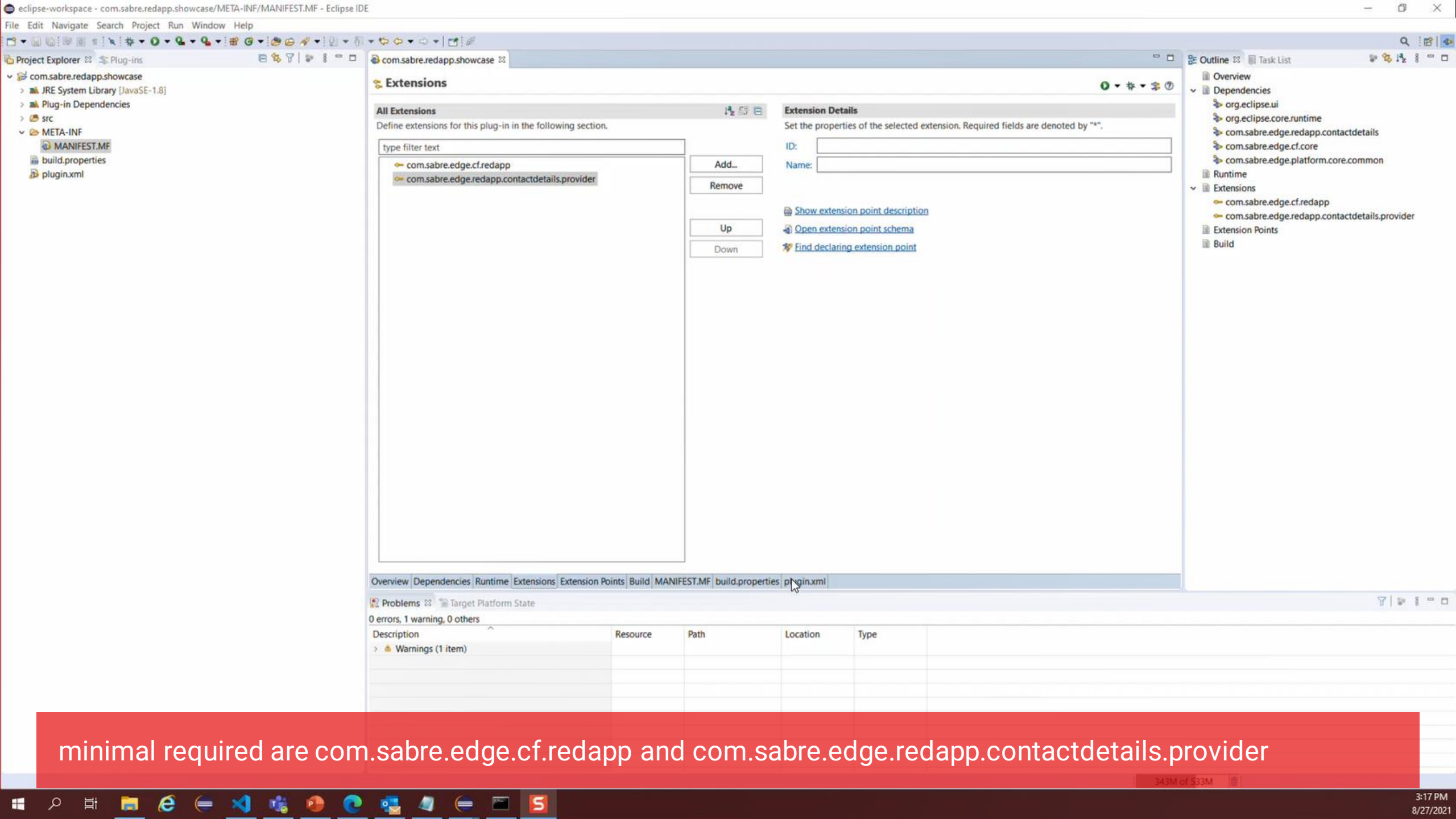


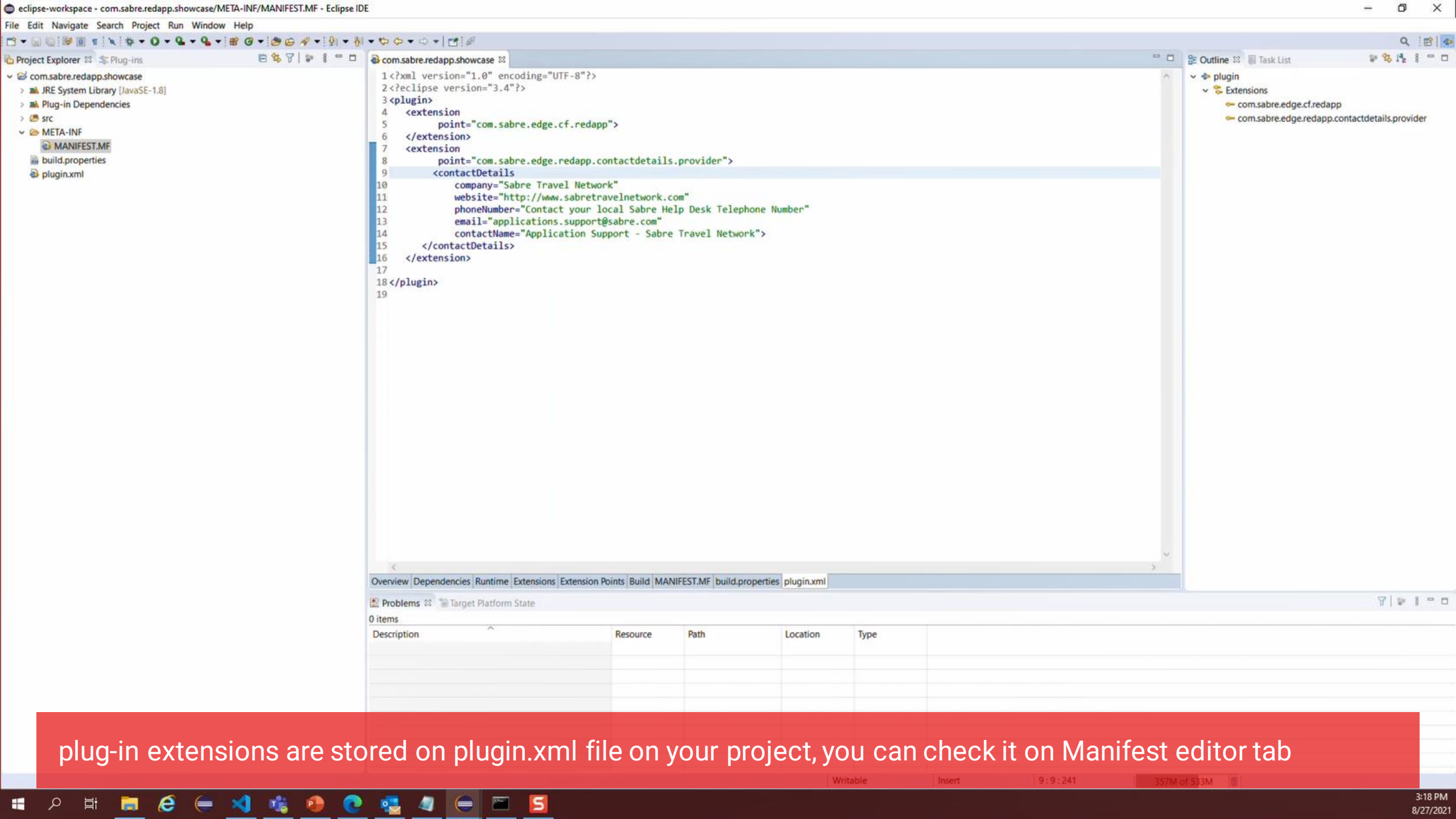
on the Project Explorer Tab, locate the MANIFEST.MF file, and double click to open with Manifest Editor, on the Overview tab, make sure to check This plug-in is a singleton field



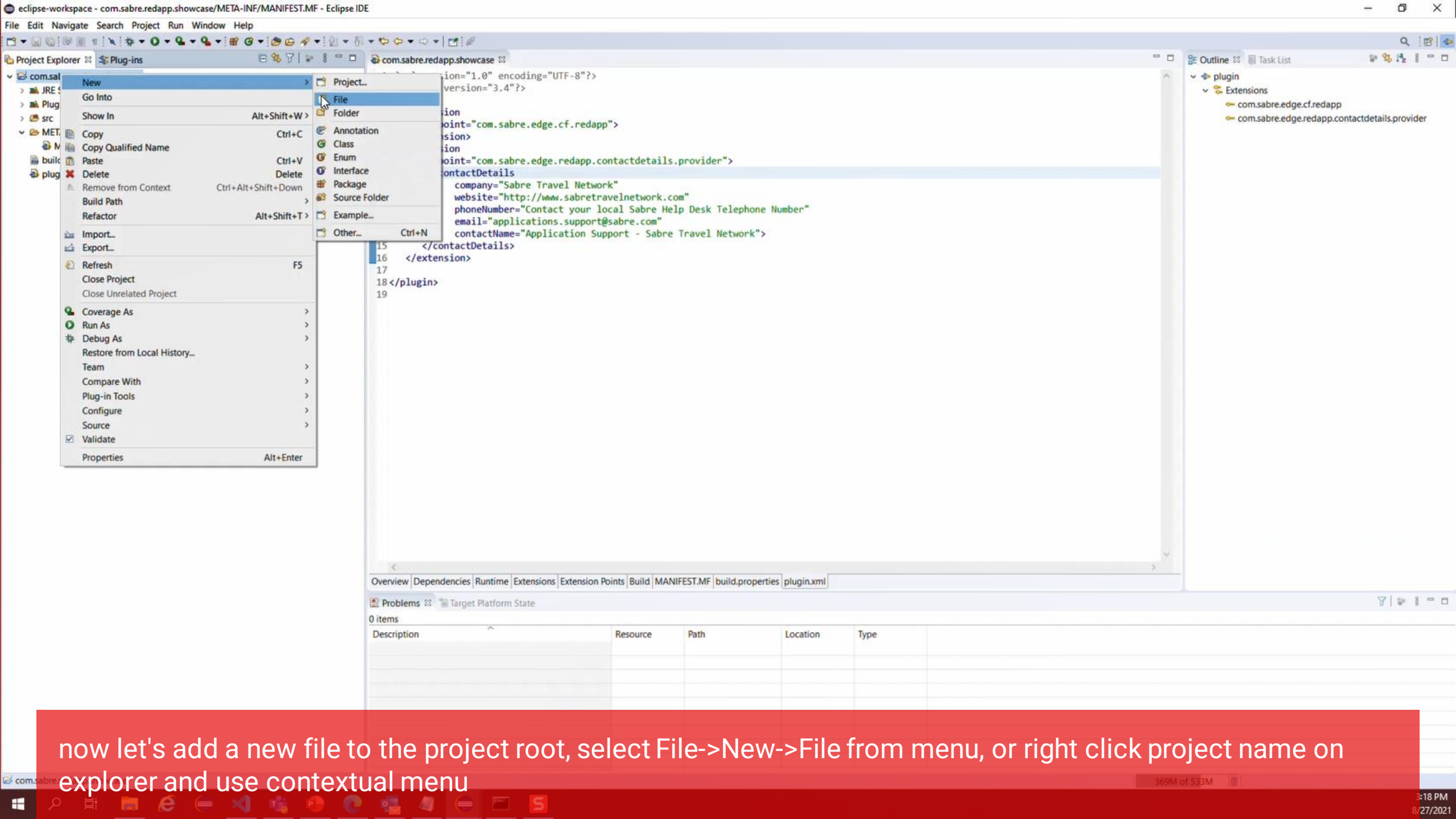
Dependencies tab, you can hit add button and navigate through ones "shared" from the Target platform and SDK, lets add minimally required : com.sabre.edge.redapp.contactdetails, com.sabe.edge.cf.core, com.sabre.edge.platform.core.common


eclipse-workspace - com.sabre.redapp.showcase/META-INF/MANIFEST.MF - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
Plug-ins
com.sabre.redapp.showcase
JRE System Library [JavaSE-1.8]
Plug-in Dependencies
src
META-INF
MANIFEST.MF
build.properties
com.sabre.redapp.showcase
Extensions
All Extensions
Define extensions for this plug-in in the following section.
type filter text
Add...
Remove
Up
Down
Overview Dependencies Runtime Extensions Extension Points Build MANIFEST.MF build.properties
Outline
Task List
Overview
Dependencies
org.eclipse.ui
org.eclipse.core.runtime
com.sabre.edge.redapp.contactdetails
com.sabre.edge.cf.core
com.sabre.edge.platform.core.common
Runtime
Extensions
Extension Points
Build
Problems
Target Platform State
0 items
Description
Resource
Path
Location
Type
Extension tab, hit Add... button to configure new extension for your plug-in
267M of 533M
3:16 PM
8/27/2021

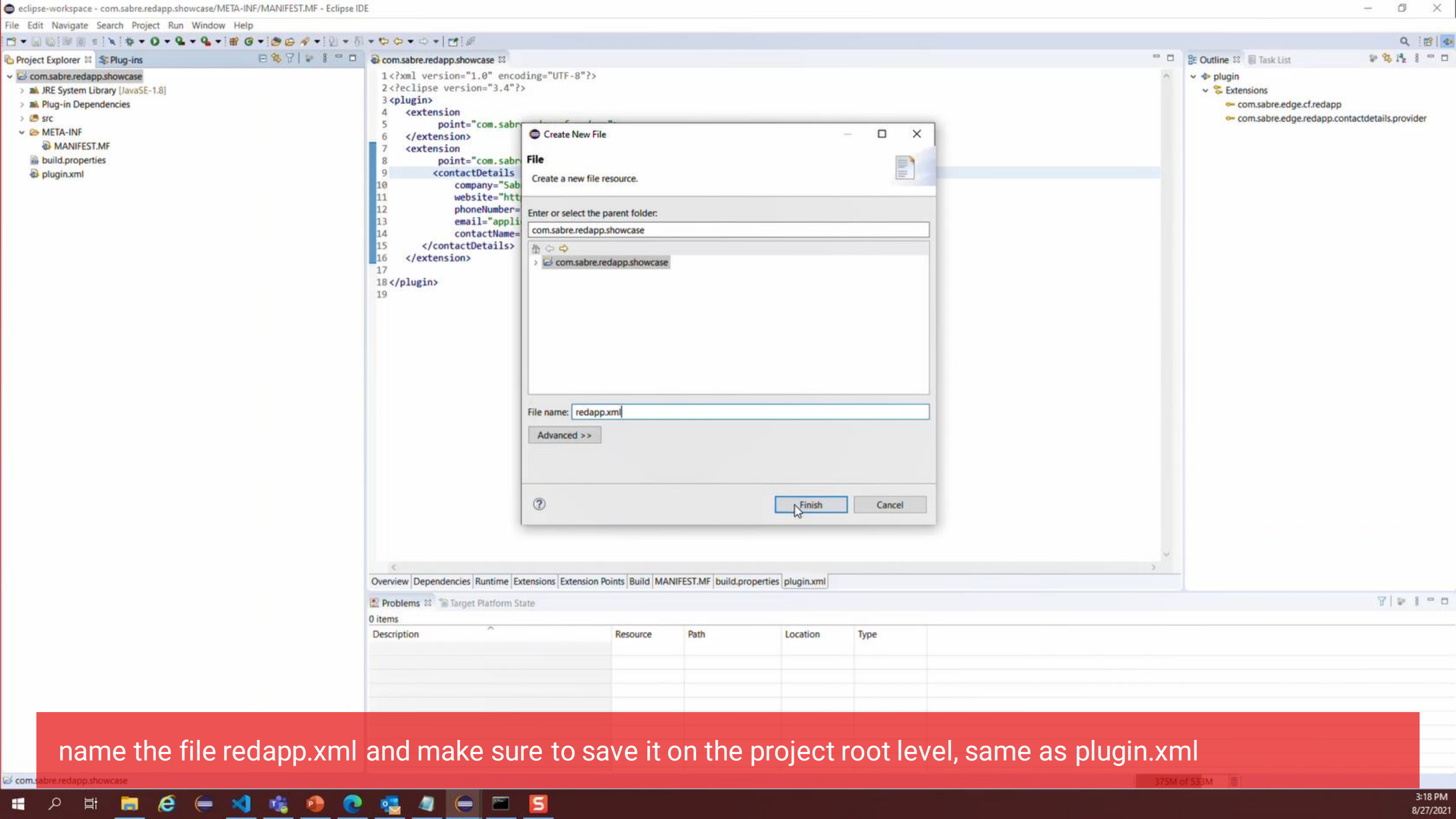

eclipse-workspace - com.sabre.redapp.showcase/META-INF/MANIFEST.MF - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
Plug-ins
com.sabre.redapp.showcase
JRE System Library [JavaSE-1.8]
Plug-in Dependencies
src
META-INF
MANIFEST.MF
build.properties
plugin.xml
com.sabre.redapp.showcase
Extensions
All Extensions
Define extensions for this plug-in in the following section.
type filter text
com.sabre.edge.cf.redapp
com.sabre.edge.redapp.contactdetails.provider
Add...
Remove
Up
Down
Extension Details
Set the properties of the selected extension. Required fields are denoted by "*".
ID:
Name:
Show extension point description
Open extension point schema
Find declaring extension point
Overview Dependencies Runtime Extensions Extension Points Build MANIFEST.MF build.properties plugin.xml
Outline
Task List
Overview
Dependencies
org.eclipse.ui
org.eclipse.core.runtime
com.sabre.edge.redapp.contactdetails
com.sabre.edge.cf.core
com.sabre.edge.platform.core.common
Runtime
Extensions
com.sabre.edge.cf.redapp
com.sabre.edge.redapp.contactdetails.provider
Extension Points
Build
Problems
Target Platform State
0 errors, 1 warning, 0 others
Description
Resource
Path
Location
Type
Warnings (1 item)
minimal required are com.sabre.edge.cf.redapp and com.sabre.edge.redapp.contactdetails.provider
3:17 PM
8/27/2021

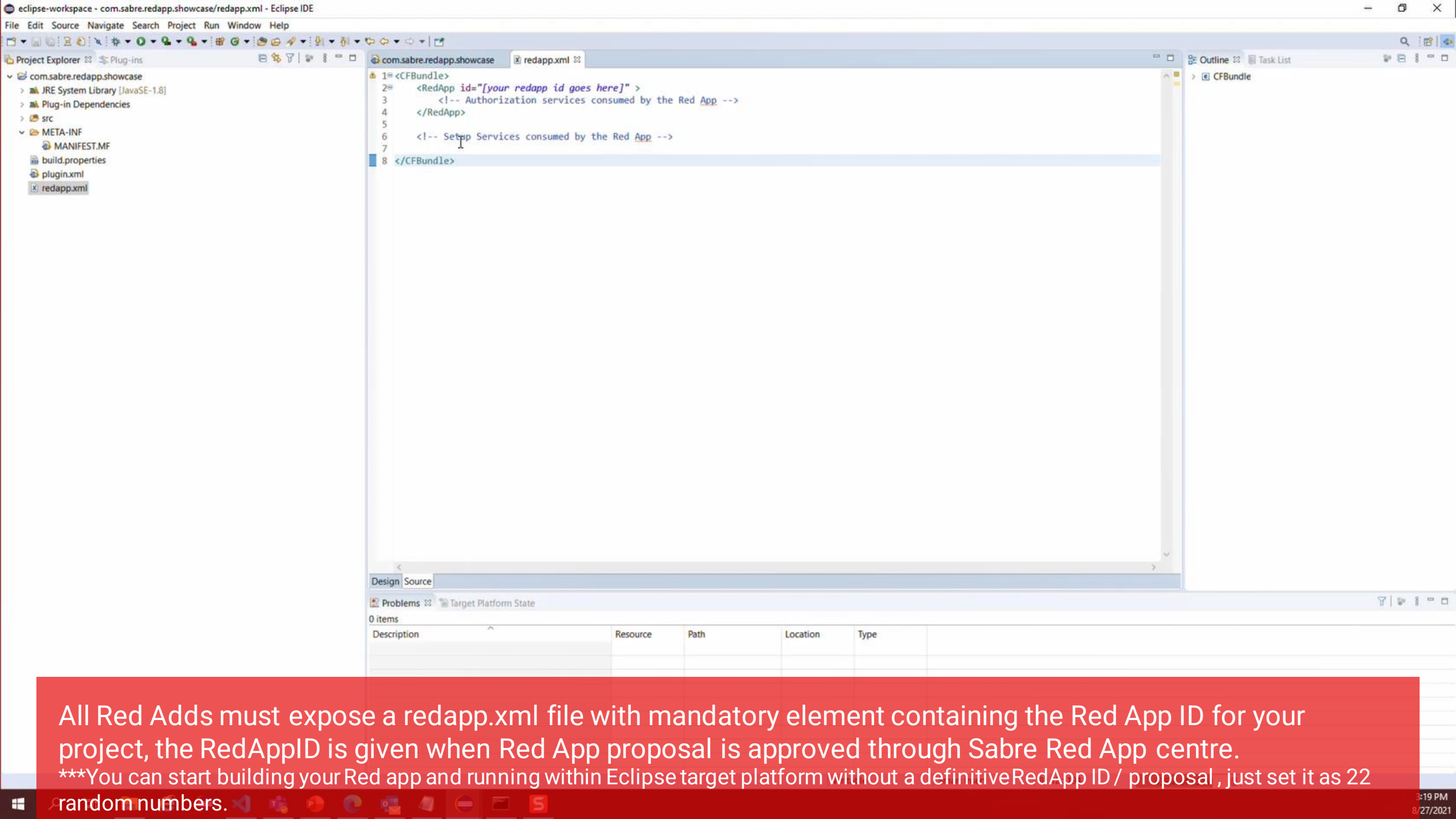


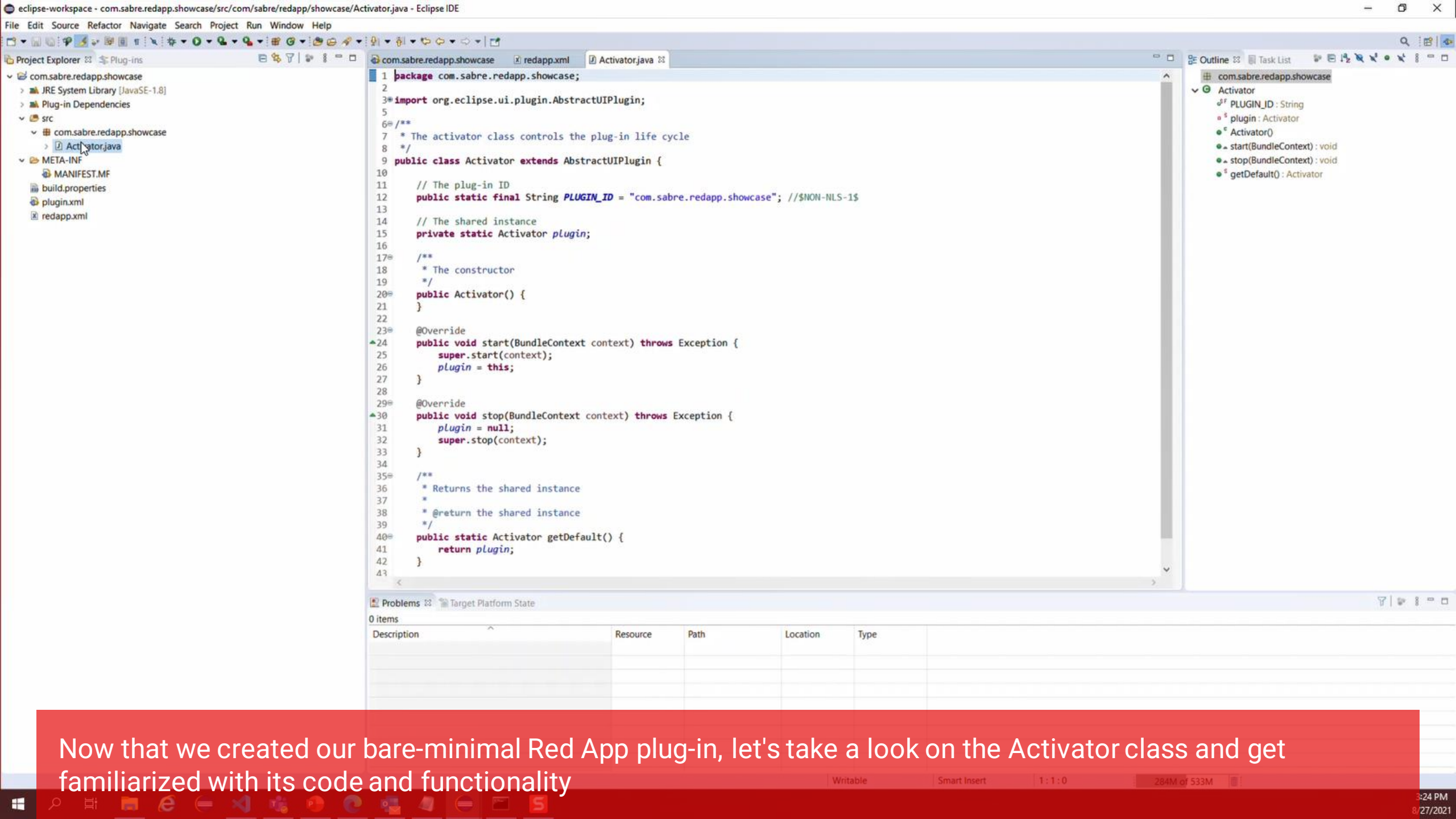
plug-in extensions are stored on plugin.xml file on your project, you can check it on Manifest editor tab



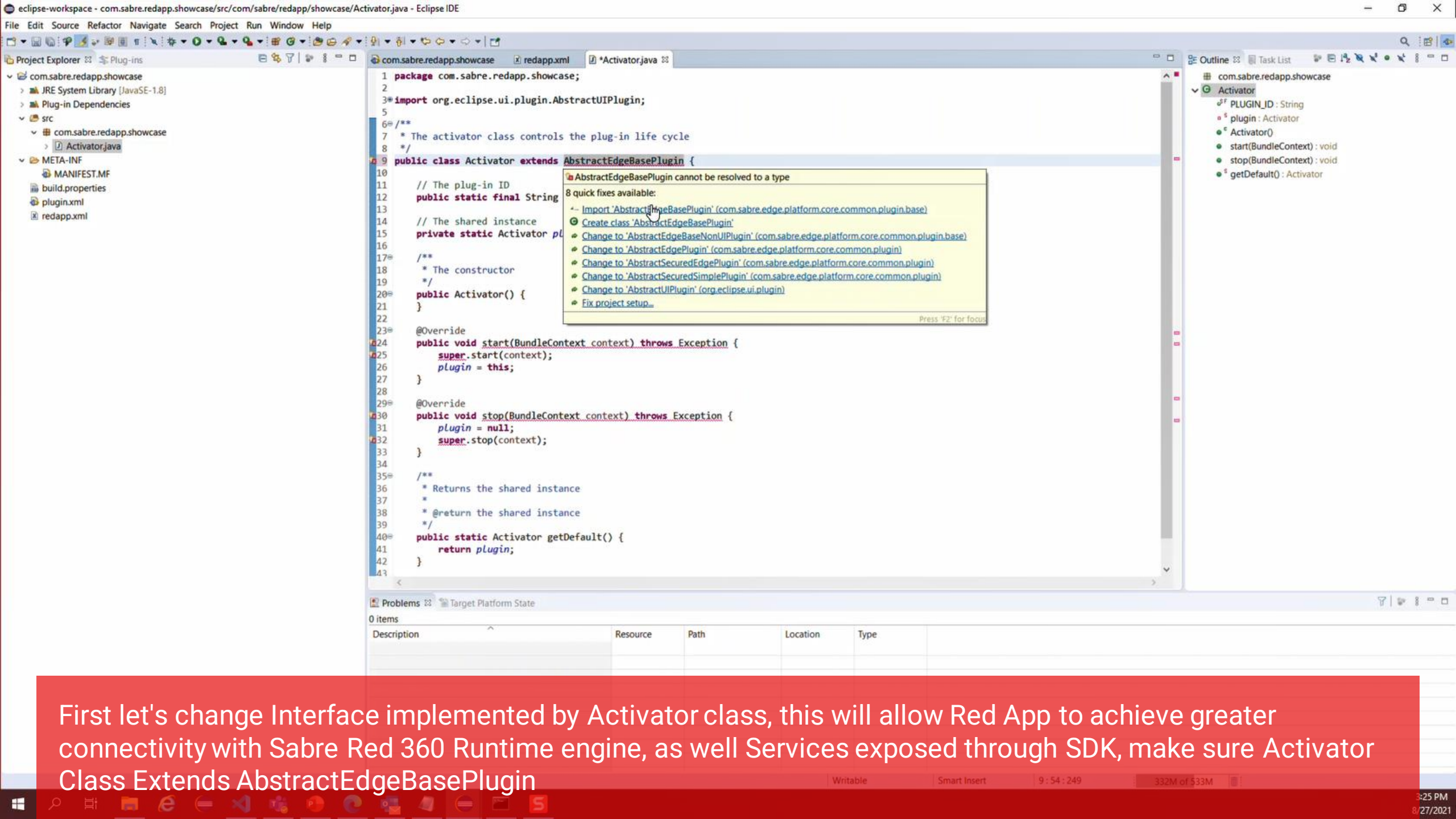
now let's add a new file to the project root, select File->New->File from menu, or right click project name on explorer and use contextual menu


eclipse-workspace - com.sabre.redapp.showcase/META-INF/MANIFEST.MF - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
Plug-ins
com.sabre.redapp.showcase
JRE System Library [JavaSE-1.8]
Plug-in Dependencies
src
META-INF
MANIFEST.MF
build.properties
plugin.xml
com.sabre.redapp.showcase
<?xml version="1.0" encoding="UTF-8"?>
<?eclipse version="3.4"?>
<plugin>
<extension
point="com.sabr
</extension>
<extension
point="com.sabr
<contactDetails
company="Sab
website="htt
phoneNumber=
email="appli
contactName=
</contactDetails>
</extension>
</plugin>
Create New File
File
Create a new file resource.
Enter or select the parent folder:
com.sabre.redapp.showcase
com.sabre.redapp.showcase
File name: redapp.xml
Advanced >>
Finish
Cancel
Outline
Task List
plugin
Extensions
com.sabre.edge.cf.redapp
com.sabre.edge.redapp.contactdetails.provider
Overview
Dependencies
Runtime
Extensions
Extension Points
Build
MANIFEST.MF
build.properties
plugin.xml
Problems
Target Platform State
0 items
Description
Resource
Path
Location
Type
name the file redapp.xml and make sure to save it on the project root level, same as plugin.xml
3:18 PM
8/27/2021

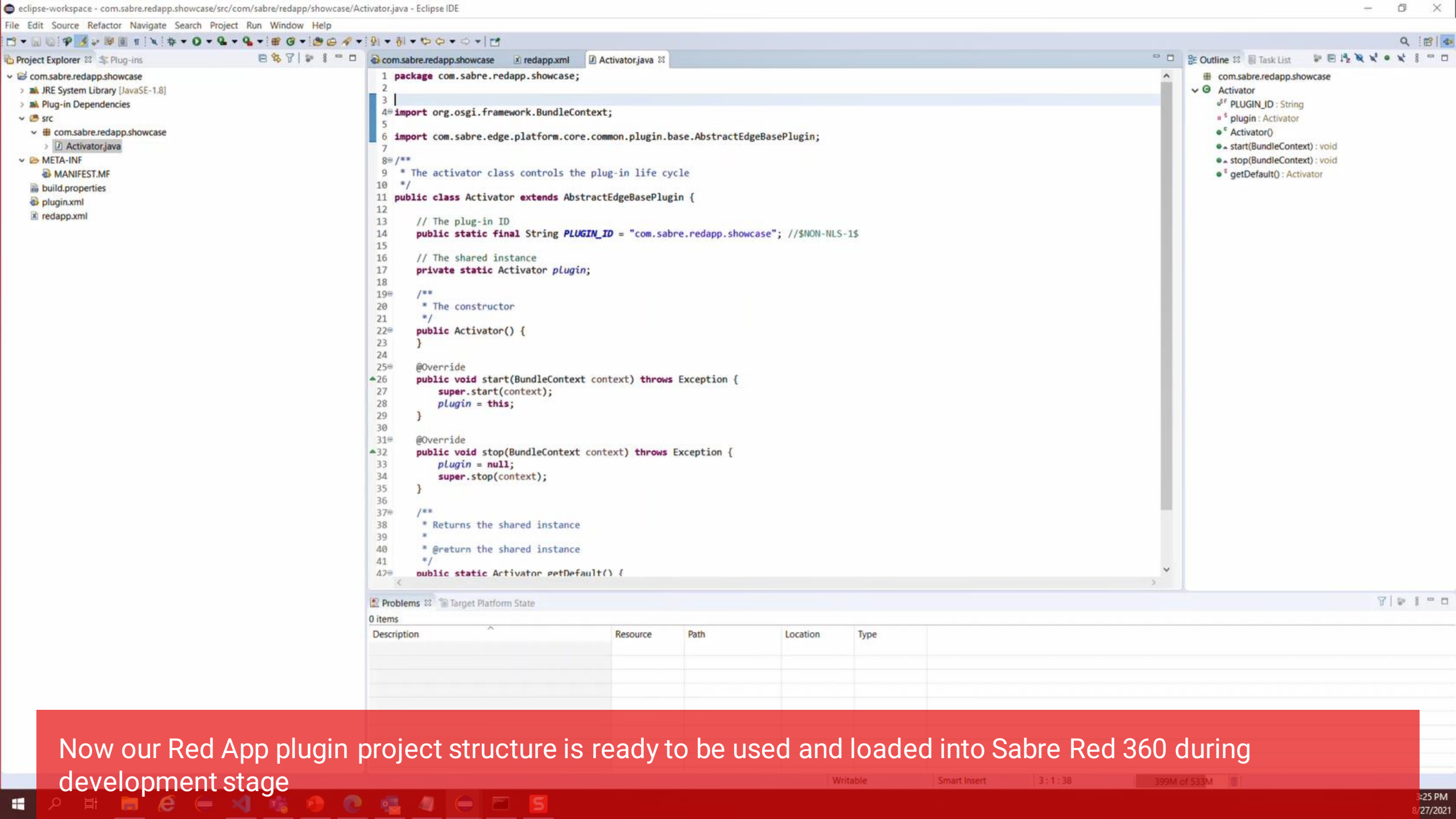

eclipse-workspace - com.sabre.redapp.showcase/redapp.xml - Eclipse IDE
File Edit Source Navigate Search Project Run Window Help
Project Explorer
Plug-ins
com.sabre.redapp.showcase
JRE System Library [JavaSE-1.8]
Plug-in Dependencies
src
META-INF
MANIFEST.MF
build.properties
plugin.xml
redapp.xml
com.sabre.redapp.showcase
redapp.xml
<CFBundle>
<RedApp id="[your redapp id goes here]" >
<!-- Authorization services consumed by the Red App -->
</RedApp>
<!-- Setup Services consumed by the Red App -->
</CFBundle>
Design
Source
Outline
Task List
CFBundle
Problems
Target Platform State
0 items
Description
Resource
Path
Location
Type
All Red Adds must expose a redapp.xml file with mandatory element containing the Red App ID for your project, the RedAppID is given when Red App proposal is approved through Sabre Red App centre.
***You can start building your Red app and running within Eclipse target platform without a definitive RedApp ID / proposal , just set it as 22 random numbers.



Now that we created our bare-minimal Red App plug-in, let's take a look on the Activator class and get familiarized with its code and functionality



First let's change Interface implemented by Activator class, this will allow Red App to achieve greater connectivity with Sabre Red 360 Runtime engine, as well Services exposed through SDK, make sure Activator Class Extends AbstractEdgeBasePlugin



Now our Red App plugin project structure is ready to be used and loaded into Sabre Red 360 during development stage

Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project

Build and Debug Red Apps

Build Red Apps

Web Module project structure

Run / Debug Red Apps

Sabre Red 360 Desktop

Sabre Red Web

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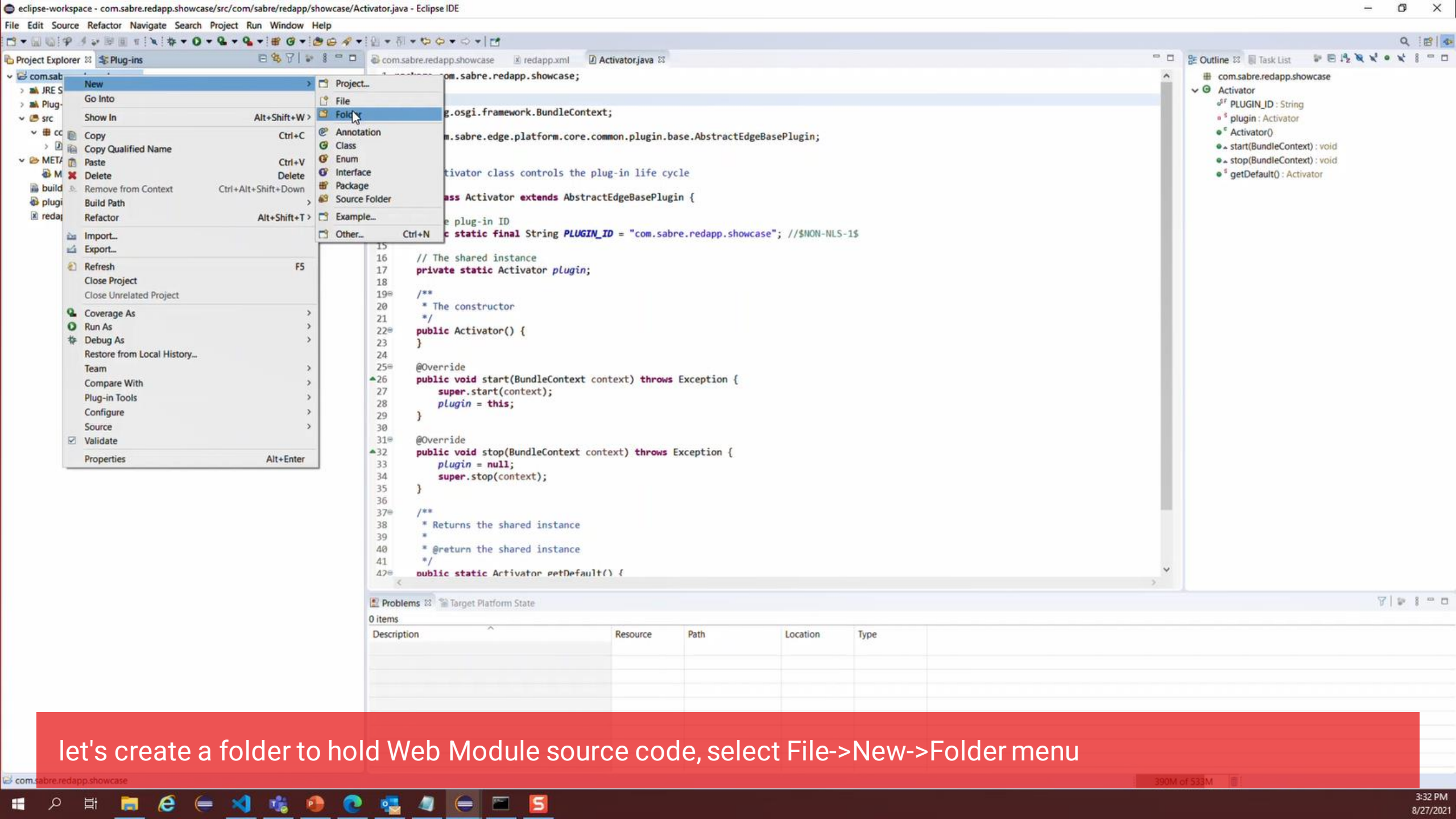
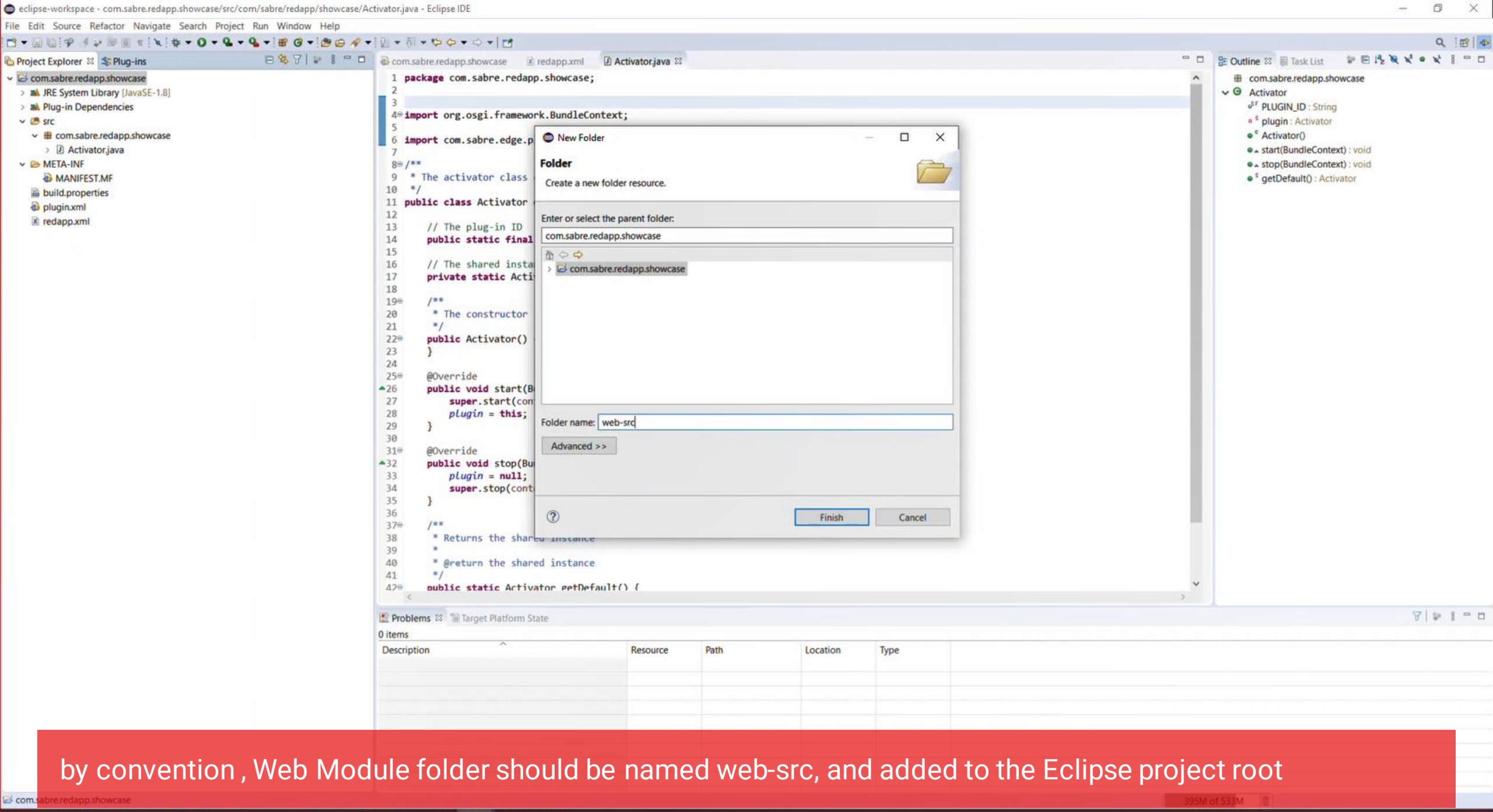
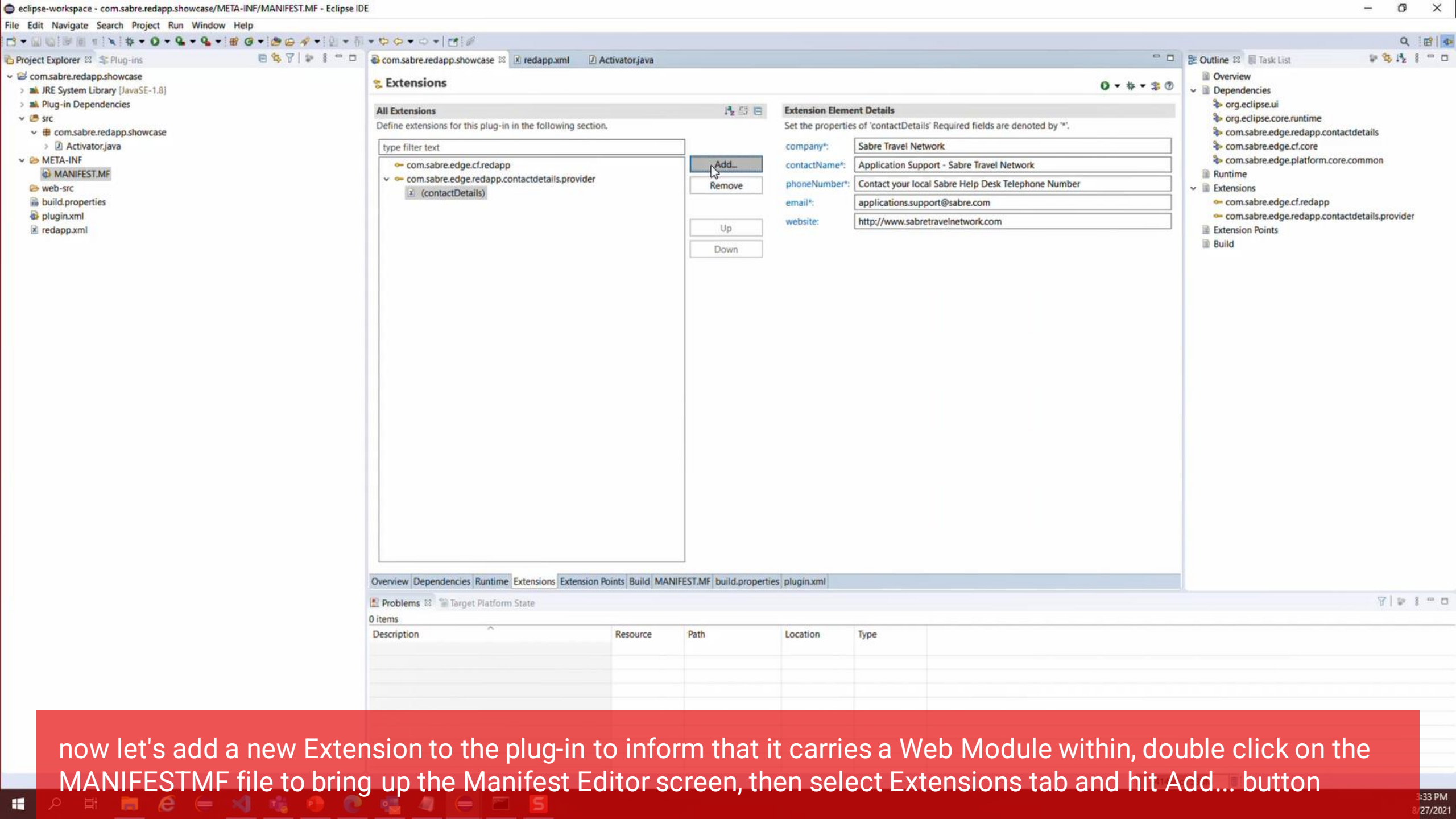


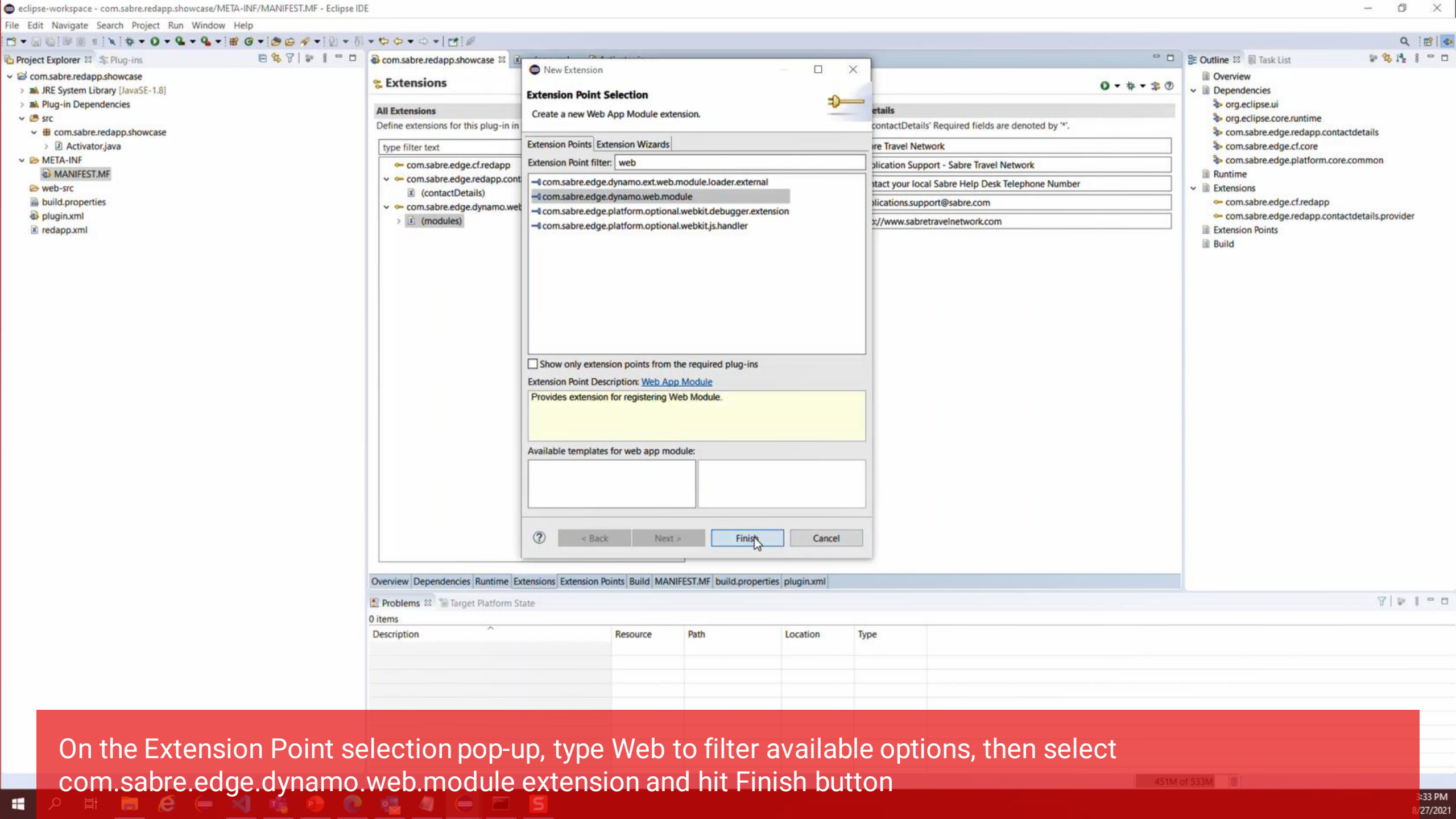
let's create a folder to hold Web Module source code, select File->New->Folder menu



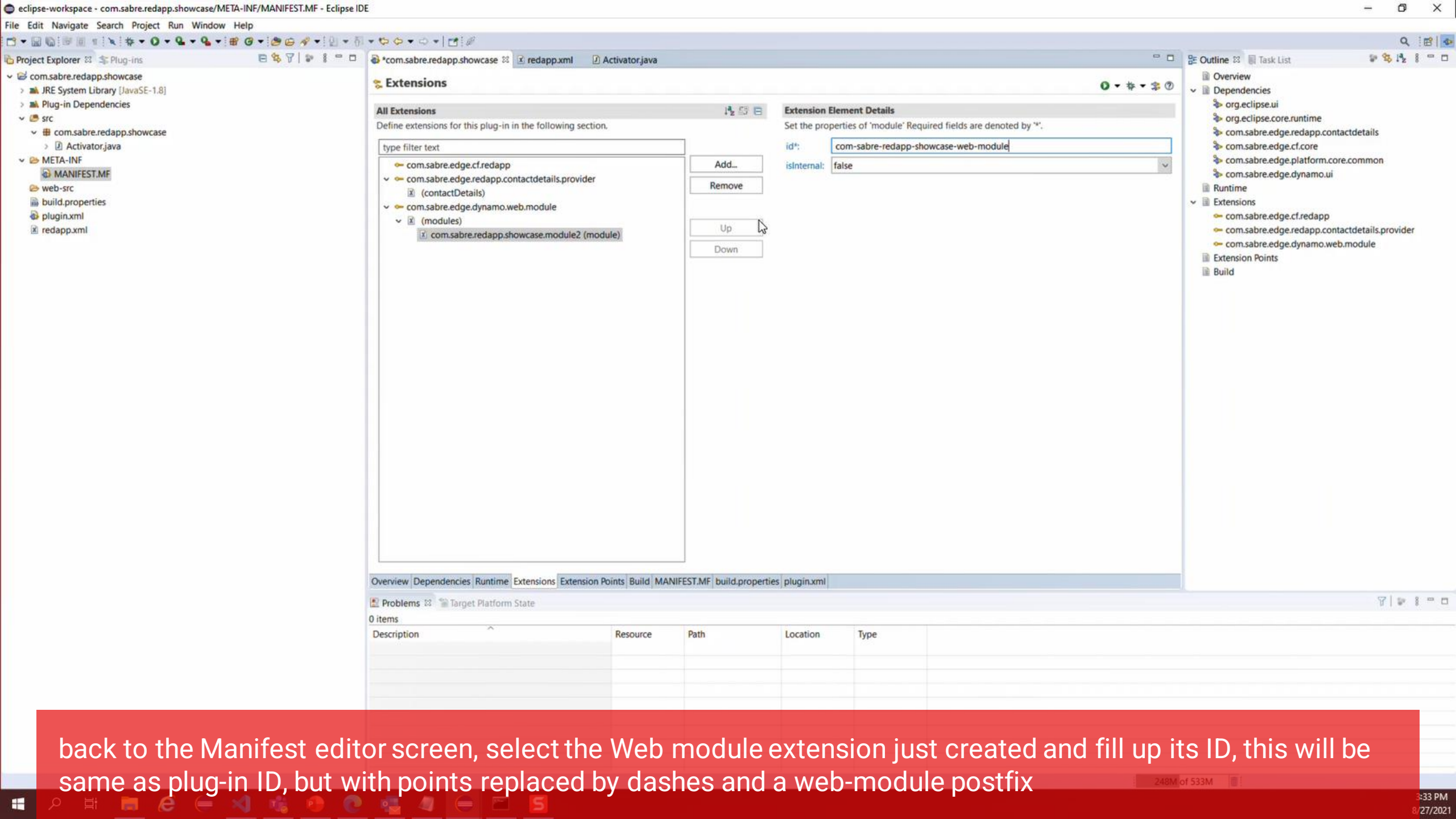
by convention , Web Module folder should be named web-src, and added to the Eclipse project root



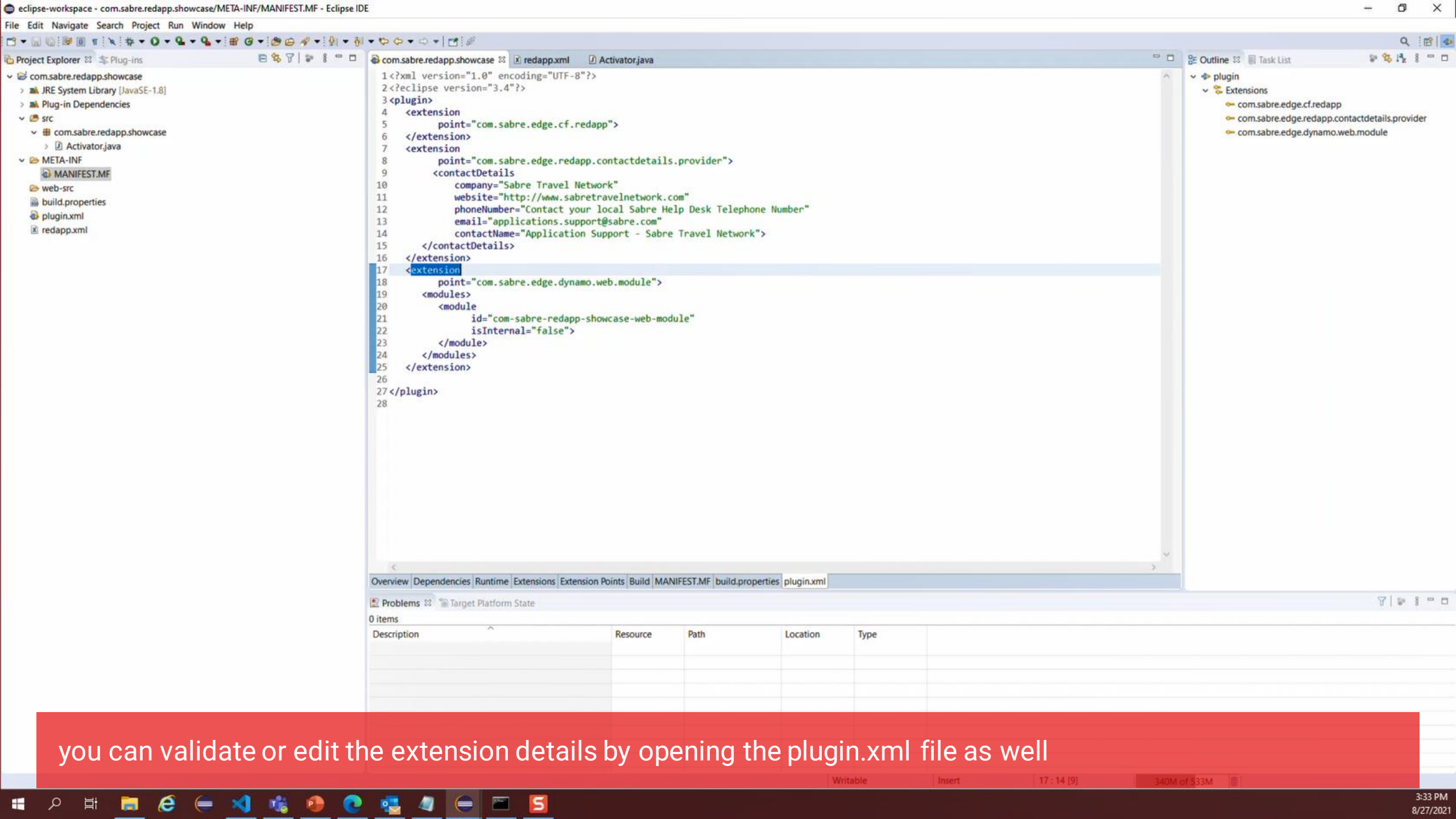
now let's add a new Extension to the plug-in to inform that it carries a Web Module within, double click on the MANIFESTMF file to bring up the Manifest Editor screen, then select Extensions tab and hit Add... button

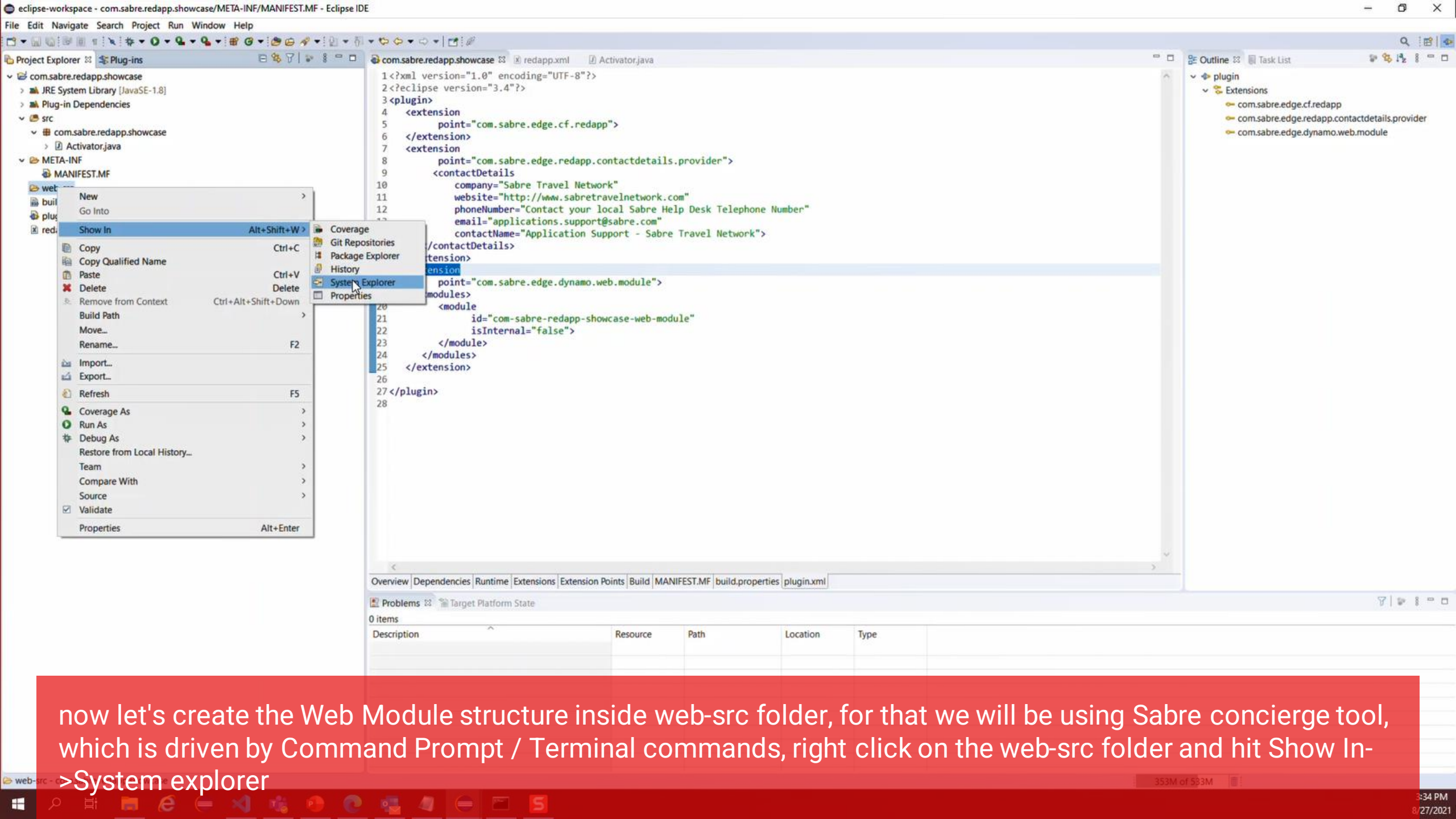


On the Extension Point selection pop-up, type Web to filter available options, then select com.sabre.edge.dynamo.web.module extension and hit Finish button

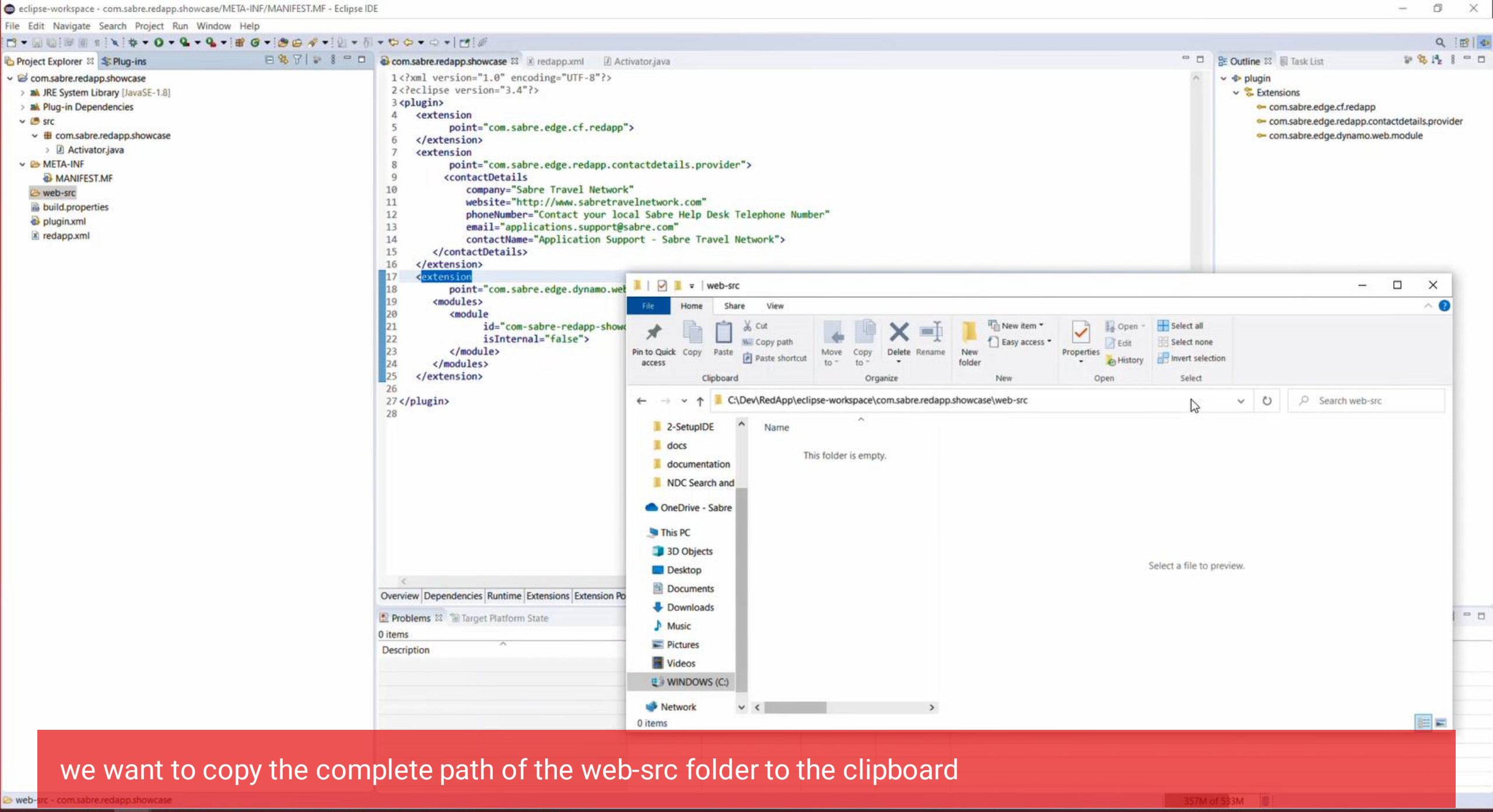


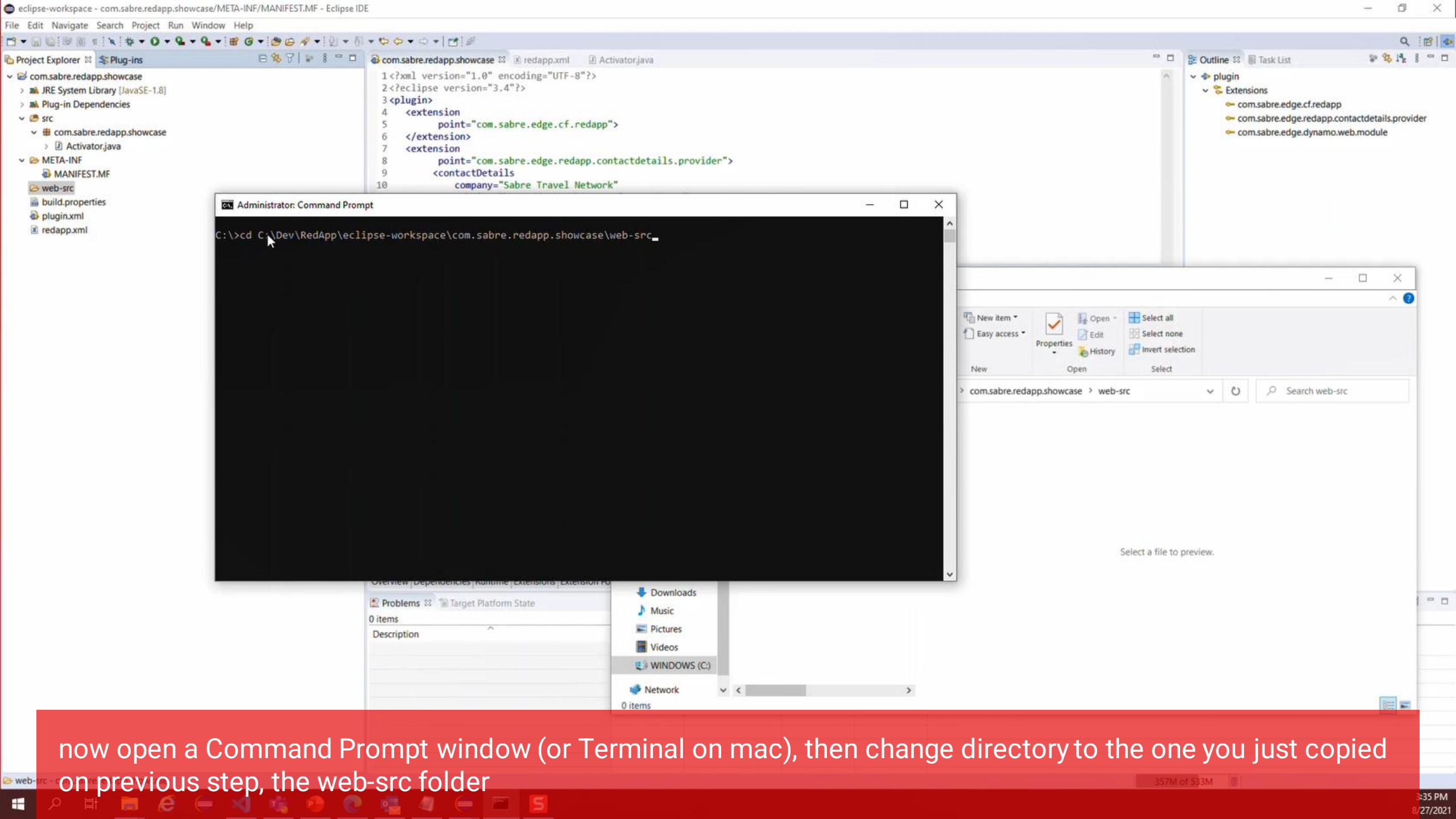
back to the Manifest editor screen, select the Web module extension just created and fill up its ID, this will be same as plug-in ID, but with points replaced by dashes and a web-module postfix


eclipse-workspace - com.sabre.redapp.showcase/META-INF/MANIFEST.MF - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
Plug-ins
com.sabre.redapp.showcase
JRE System Library [JavaSE-1.8]
Plug-in Dependencies
src
com.sabre.redapp.showcase
Activator.java
META-INF
MANIFEST.MF
web-src
build.properties
plugin.xml
redapp.xml
com.sabre.redapp.showcase
redapp.xml
Activator.java
1 <?xml version="1.0" encoding="UTF-8"?>
2 <?eclipse version="3.4"?>
3 <plugin>
4 <extension
5 point="com.sabre.edge.cf.redapp">
6 </extension>
7 <extension
8 point="com.sabre.edge.redapp.contactdetails.provider">
9 <contactDetails
10 company="Sabre Travel Network"
11 website="http://www.sabretravelnetwork.com"
12 phoneNumber="Contact your local Sabre Help Desk Telephone Number"
13 email="applications.support@sabre.com"
14 contactName="Application Support - Sabre Travel Network">
15 </contactDetails>
16 </extension>
17 <extension
18 point="com.sabre.edge.dynamo.web.module">
19 <modules>
20 <module
21 id="com-sabre-redapp-showcase-web-module"
22 isInternal="false">
23 </module>
24 </modules>
25 </extension>
26
27 </plugin>
28
Overview Dependencies Runtime Extensions Extension Points Build MANIFEST.MF build.properties plugin.xml
Outline
Task List
plugin
Extensions
com.sabre.edge.cf.redapp
com.sabre.edge.redapp.contactdetails.provider
com.sabre.edge.dynamo.web.module
Problems
Target Platform State
0 items
Description
Resource
Path
Location
Type
you can validate or edit the extension details by opening the plugin.xml file as well
Writable
Insert
17 : 14 [9]
340M of 533M
3:33 PM
8/27/2021

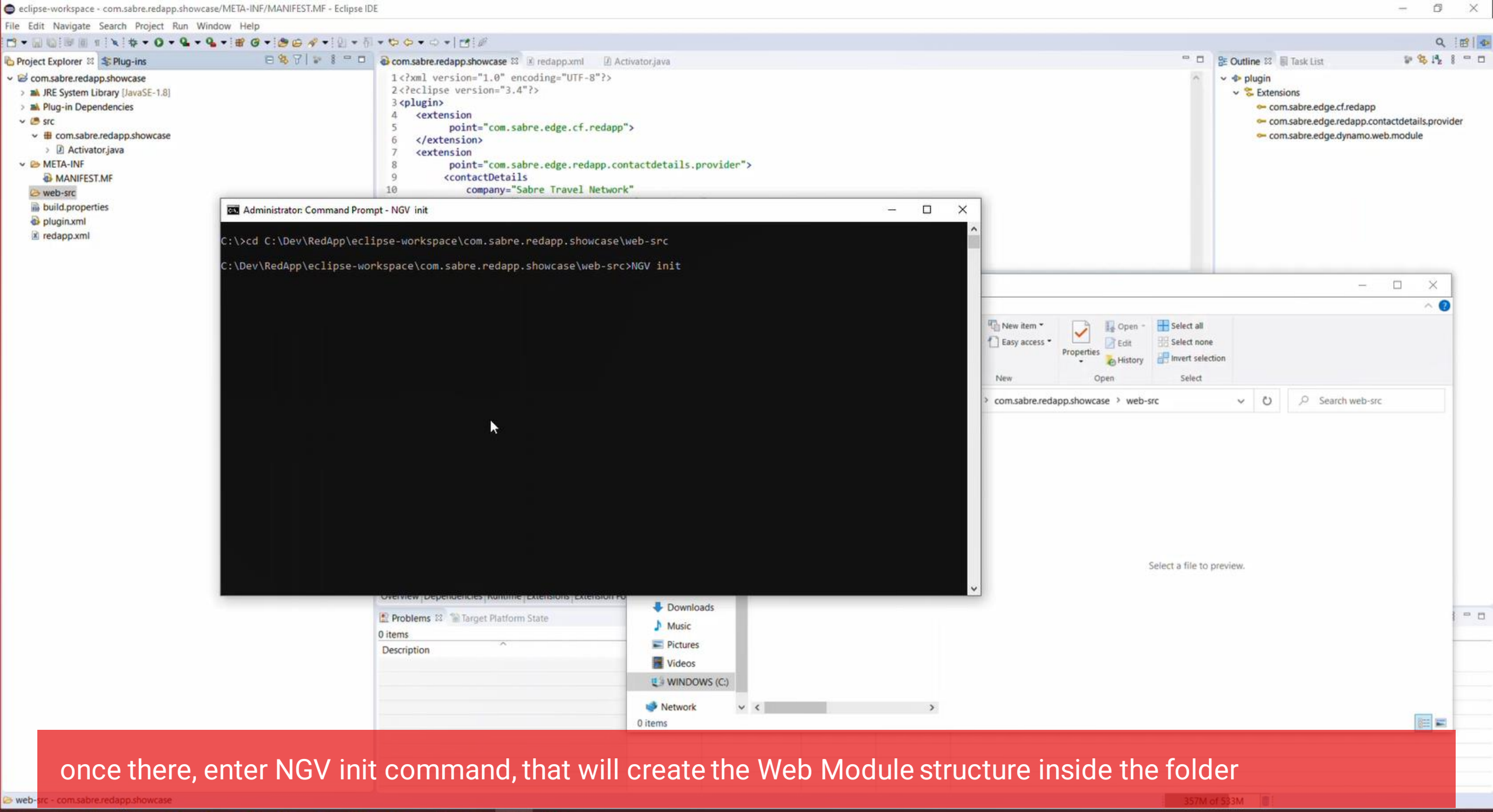


now let's create the Web Module structure inside web-src folder, for that we will be using Sabre concierge tool, which is driven by Command Prompt / Terminal commands, right click on the web-src folder and hit Show In->System explorer

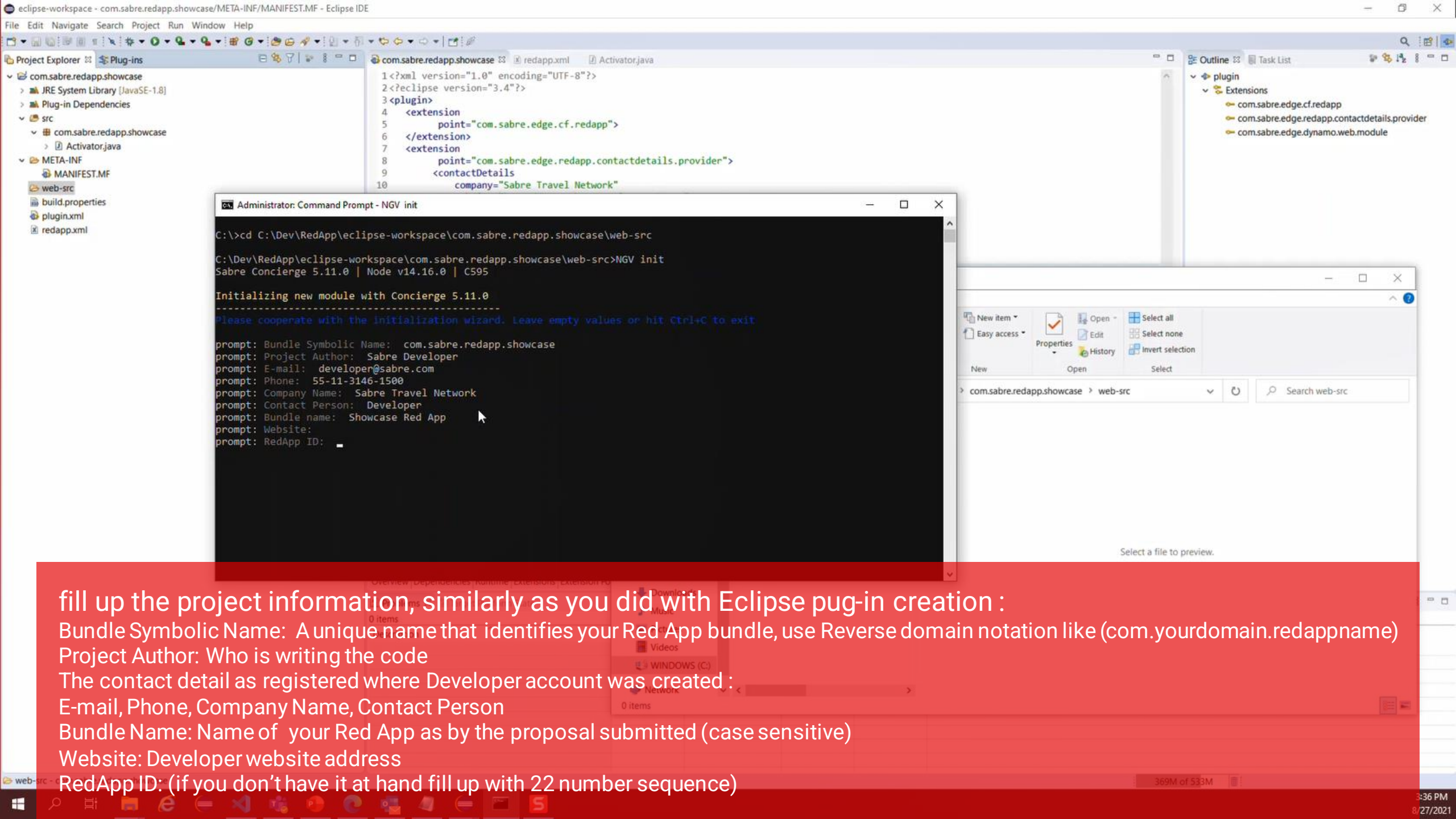

eclipse-workspace - com.sabre.redapp.showcase/META-INF/MANIFEST.MF - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
Plug-ins
com.sabre.redapp.showcase
JRE System Library [JavaSE-1.8]
Plug-in Dependencies
src
com.sabre.redapp.showcase
Activator.java
META-INF
MANIFEST.MF
web-src
build.properties
plugin.xml
redapp.xml
com.sabre.redapp.showcase
redapp.xml
Activator.java
<?xml version="1.0" encoding="UTF-8"?>
<?eclipse version="3.4"?>
<plugin>
<extension
point="com.sabre.edge.cf.redapp">
</extension>
<extension
point="com.sabre.edge.redapp.contactdetails.provider">
<contactDetails
company="Sabre Travel Network"
website="http://www.sabretravelnetwork.com"
phoneNumber="Contact your local Sabre Help Desk Telephone Number"
email="applications.support@sabre.com"
contactName="Application Support - Sabre Travel Network">
</contactDetails>
</extension>
<extension
point="com.sabre.edge.dynamo.web
<modules>
<module
id="com-sabre-redapp-showc
isInternal="false">
</module>
</modules>
</extension>
</plugin>
Overview
Dependencies
Runtime
Extensions
Extension Po
Problems
Target Platform State
0 items
Description
Outline
Task List
plugin
Extensions
com.sabre.edge.cf.redapp
com.sabre.edge.redapp.contactdetails.provider
com.sabre.edge.dynamo.web.module
web-src
File
Home
Share
View
Pin to Quick access
Copy
Paste
Cut
Copy path
Paste shortcut
Clipboard
Move to
Copy to
Delete
Rename
Organize
New folder
New item
Easy access
New
Properties
Open
Edit
History
Open
Select all
Select none
Invert selection
Select
C:\Dev\RedApp\eclipse-workspace\com.sabre.redapp.showcase\web-src
Search web-src
2-SetupIDE
docs
documentation
NDC Search and
OneDrive - Sabre
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
WINDOWS (C:)
Network
Name
This folder is empty.
Select a file to preview.
0 items
we want to copy the complete path of the web-src folder to the clipboard
web-src - com.sabre.redapp.showcase
357M of 533M
3:34 PM
8/27/2021



now open a Command Prompt window (or Terminal on mac), then change directory to the one you just copied on previous step, the web-src folder



once there, enter NGV init command, that will create the Web Module structure inside the folder



fill up the project information, similarly as you did with Eclipse pug-in creation :

Bundle Symbolic Name: A unique name that identifies your Red App bundle, use Reverse domain notation like (com.yourdomain.redappname)

Project Author: Who is writing the code

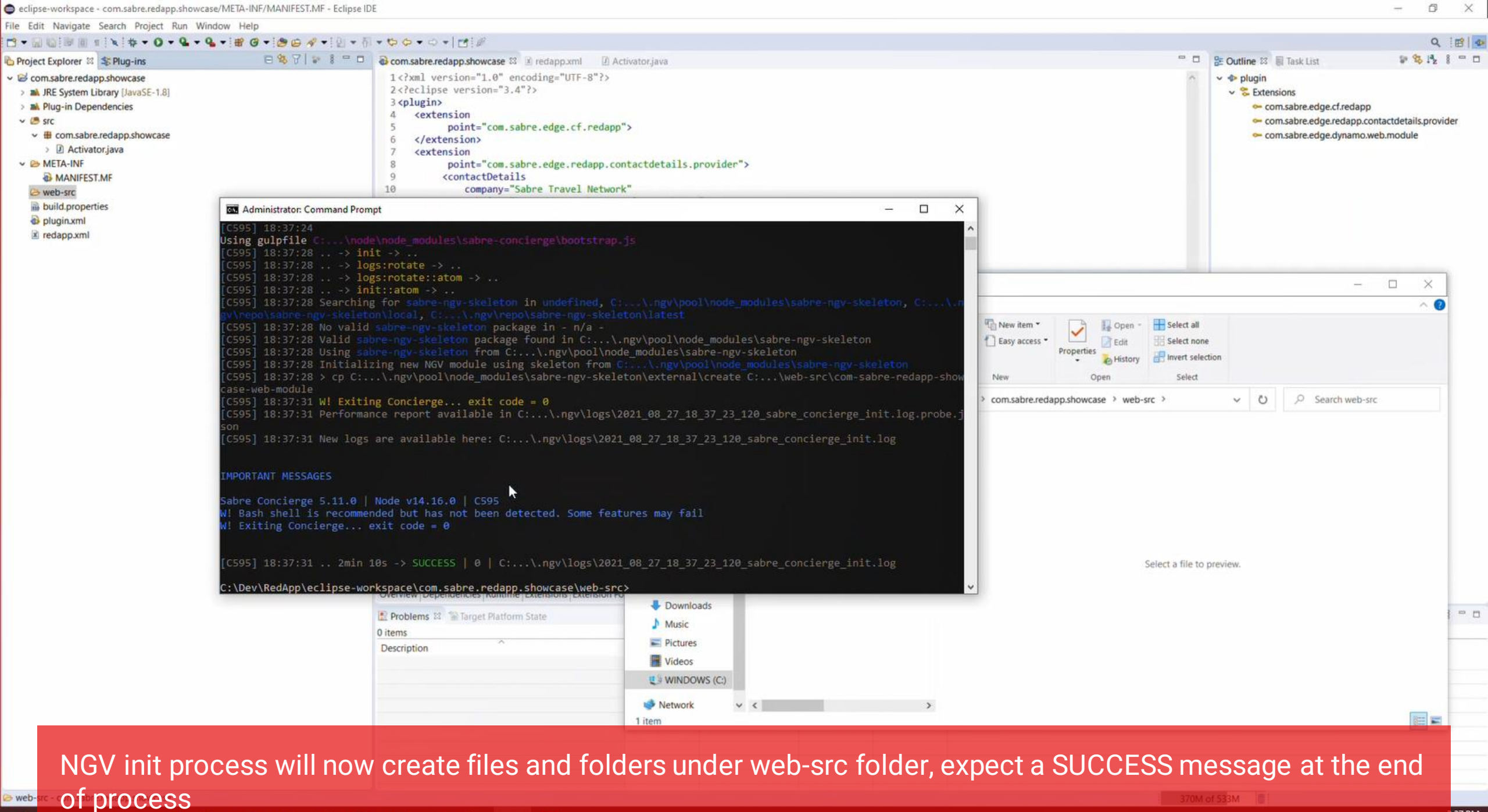
The contact detail as registered where Developer account was created :

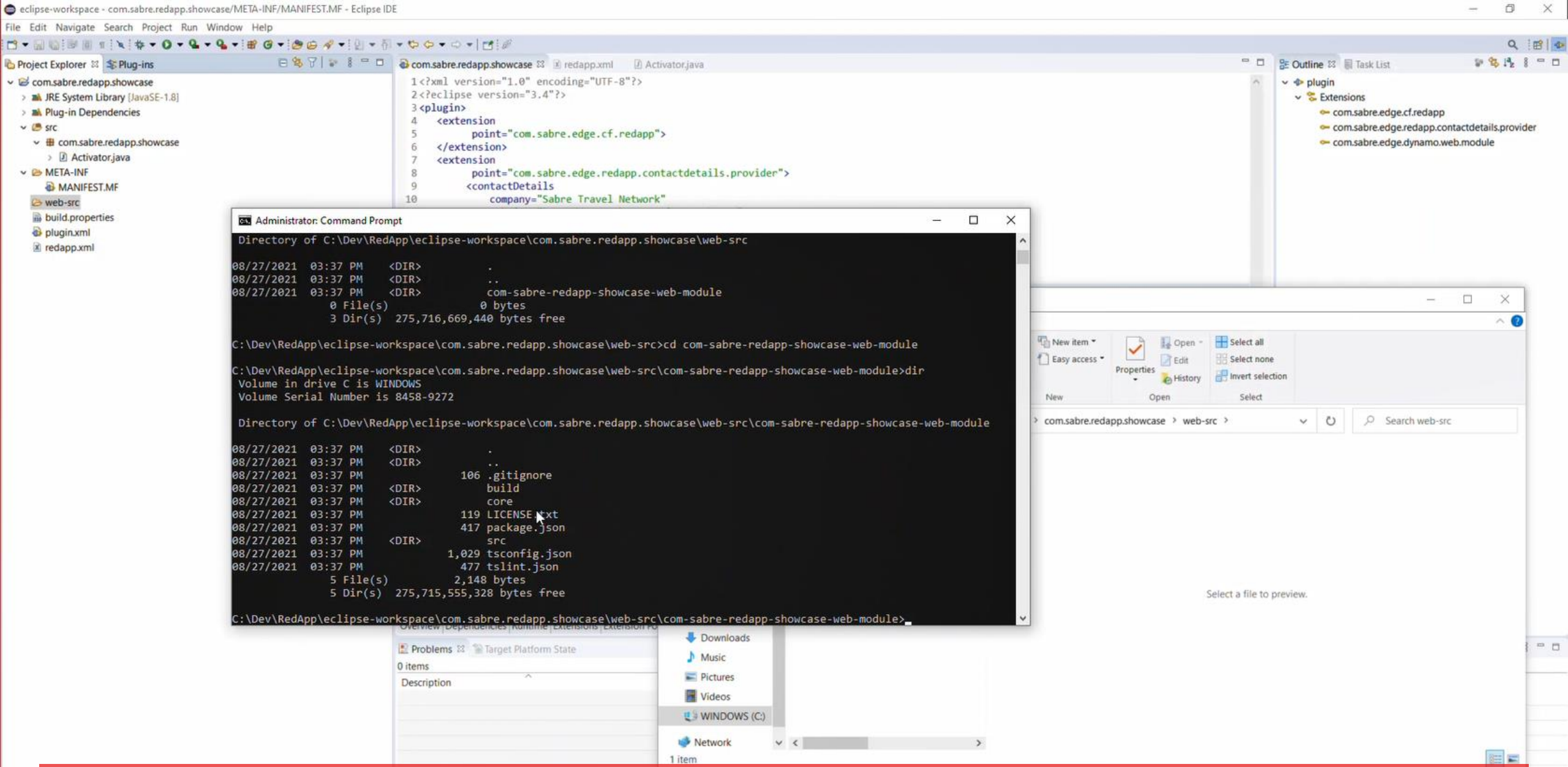
E-mail, Phone, Company Name, Contact Person

Bundle Name: Name of your Red App as by the proposal submitted (case sensitive)

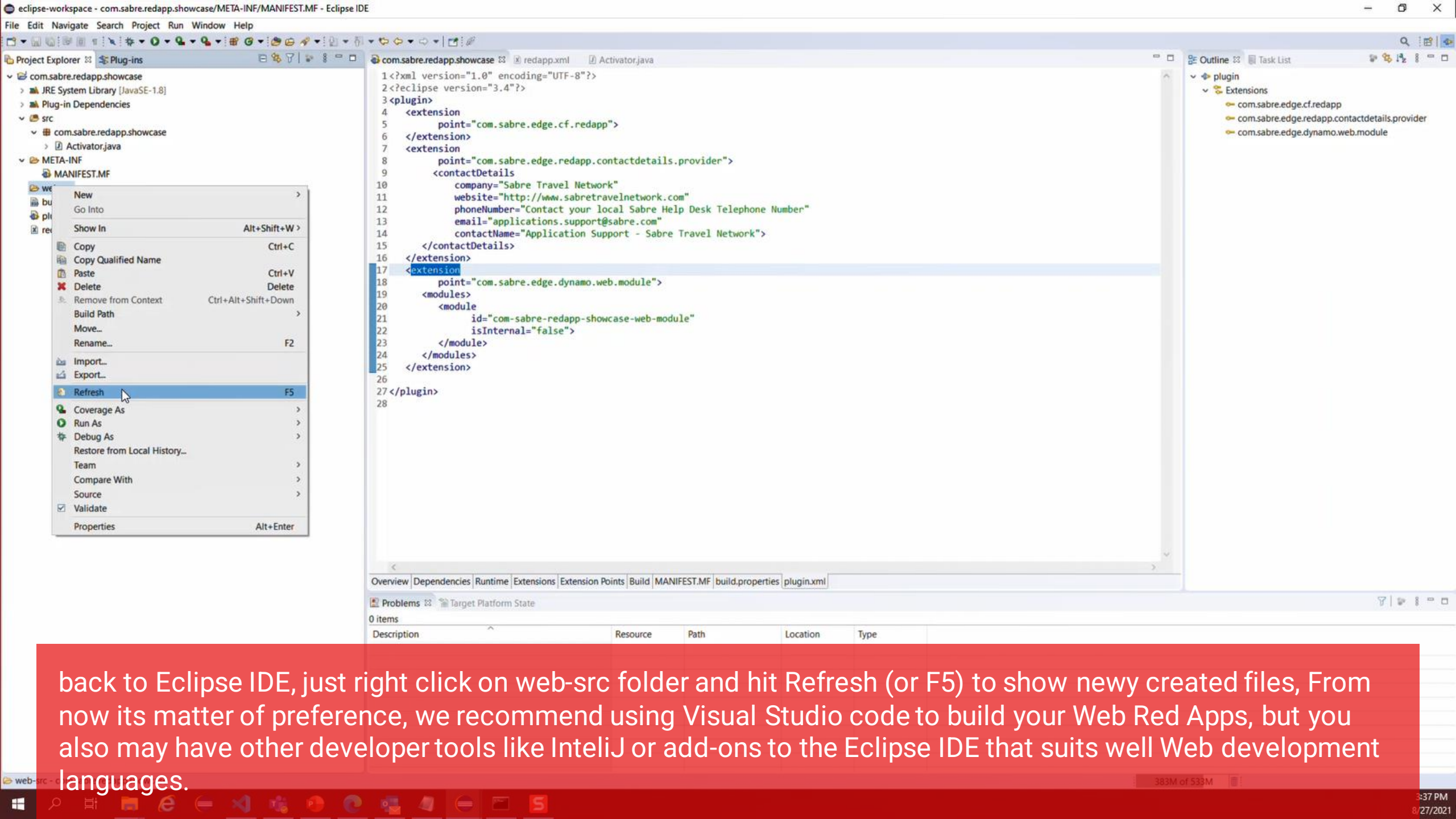
Website: Developer website address

RedApp ID: (if you don't have it at hand fill up with 22 number sequence)

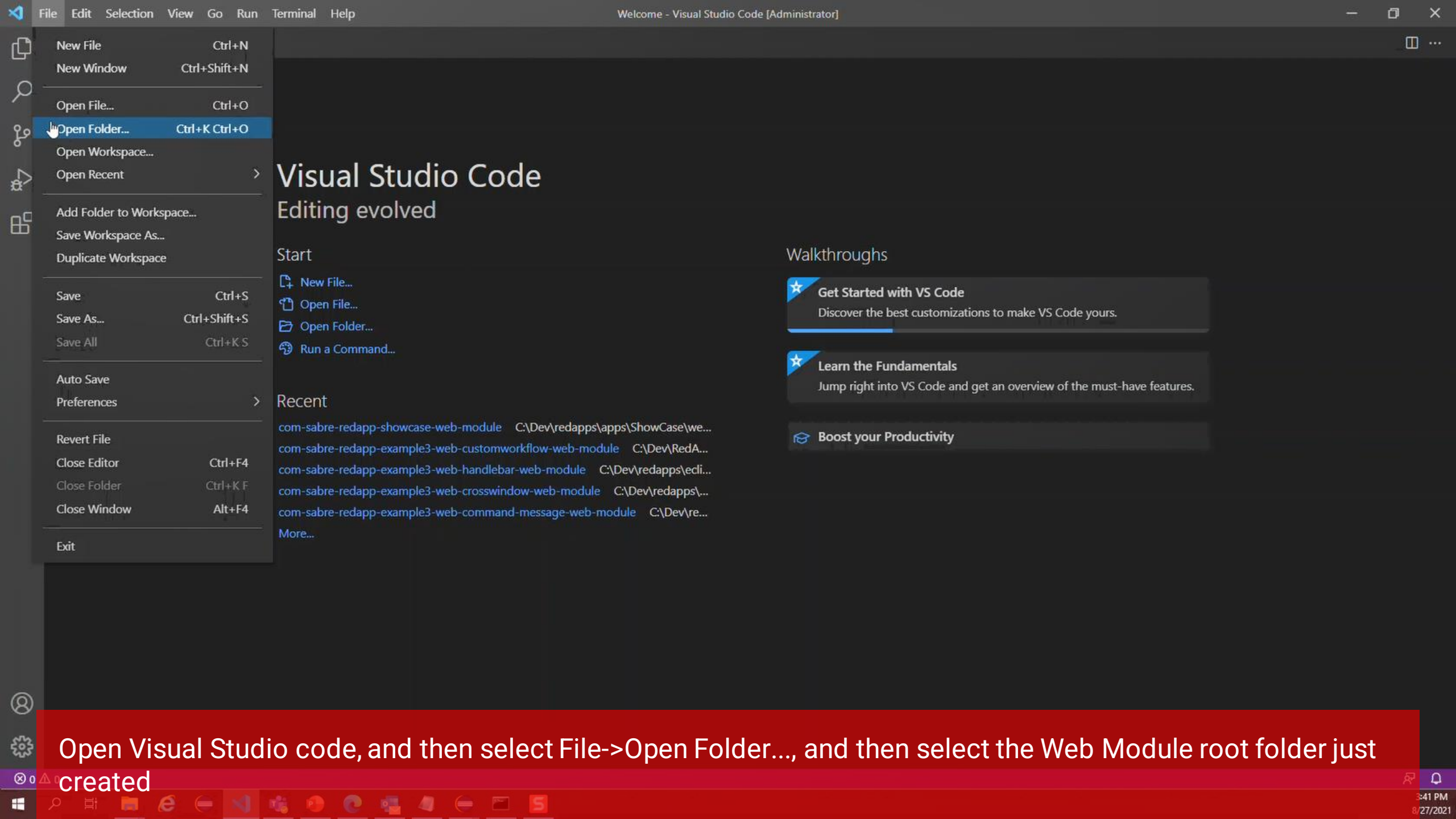

eclipse-workspace - com.sabre.redapp.showcase/META-INF/MANIFEST.MF - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
Plug-ins
com.sabre.redapp.showcase
JRE System Library [JavaSE-1.8]
Plug-in Dependencies
src
com.sabre.redapp.showcase
Activator.java
META-INF
MANIFEST.MF
web-src
build.properties
plugin.xml
redapp.xml
com.sabre.redapp.showcase
redapp.xml
Activator.java
1<?xml version="1.0" encoding="UTF-8"?>
2<?eclipse version="3.4"?>
3<plugin>
4 <extension
5 point="com.sabre.edge.cf.redapp">
6 </extension>
7 <extension
8 point="com.sabre.edge.redapp.contactdetails.provider">
9 <contactDetails
10 company="Sabre Travel Network"
Outline
Task List
plugin
Extensions
com.sabre.edge.cf.redapp
com.sabre.edge.redapp.contactdetails.provider
com.sabre.edge.dynamo.web.module
Administrator: Command Prompt
[C595] 18:37:24
Using gulpfile C:...\node\node_modules\sabre-concierge\bootstrap.js
[C595] 18:37:28 .. -> init -> ..
[C595] 18:37:28 .. -> logs:rotate -> ..
[C595] 18:37:28 .. -> logs:rotate::atom -> ..
[C595] 18:37:28 .. -> init::atom -> ..
[C595] 18:37:28 Searching for sabre-ngv-skeleton in undefined, C:...\.ngv\pool\node_modules\sabre-ngv-skeleton, C:...\.ngv\repo\sabre-ngv-skeleton\local, C:...\.ngv\repo\sabre-ngv-skeleton\latest
[C595] 18:37:28 No valid sabre-ngv-skeleton package in - n/a -
[C595] 18:37:28 Valid sabre-ngv-skeleton package found in C:...\.ngv\pool\node_modules\sabre-ngv-skeleton
[C595] 18:37:28 Using sabre-ngv-skeleton from C:...\.ngv\pool\node_modules\sabre-ngv-skeleton
[C595] 18:37:28 Initializing new NGV module using skeleton from C:...\.ngv\pool\node_modules\sabre-ngv-skeleton
[C595] 18:37:28 > cp C:...\.ngv\pool\node_modules\sabre-ngv-skeleton\external\create C:...\web-src\com-sabre-redapp-showcase-web-module
[C595] 18:37:31 W! Exiting Concierge... exit code = 0
[C595] 18:37:31 Performance report available in C:...\.ngv\logs\2021_08_27_18_37_23_120_sabre_concierge_init.log.probe.json
[C595] 18:37:31 New logs are available here: C:...\.ngv\logs\2021_08_27_18_37_23_120_sabre_concierge_init.log
IMPORTANT MESSAGES
Sabre Concierge 5.11.0 | Node v14.16.0 | C595
W! Bash shell is recommended but has not been detected. Some features may fail
W! Exiting Concierge... exit code = 0
[C595] 18:37:31 .. 2min 10s -> SUCCESS | 0 | C:...\.ngv\logs\2021_08_27_18_37_23_120_sabre_concierge_init.log
C:\Dev\RedApp\eclipse-workspace\com.sabre.redapp.showcase\web-src>
New item
Easy access
Properties
Open
Edit
History
Select all
Select none
Invert selection
New
Open
Select
com.sabre.redapp.showcase > web-src >
Search web-src
Select a file to preview.
Problems
Target Platform State
0 items
Description
Downloads
Music
Pictures
Videos
WINDOWS (C:)
Network
1 item
NGV init process will now create files and folders under web-src folder, expect a SUCCESS message at the end of process



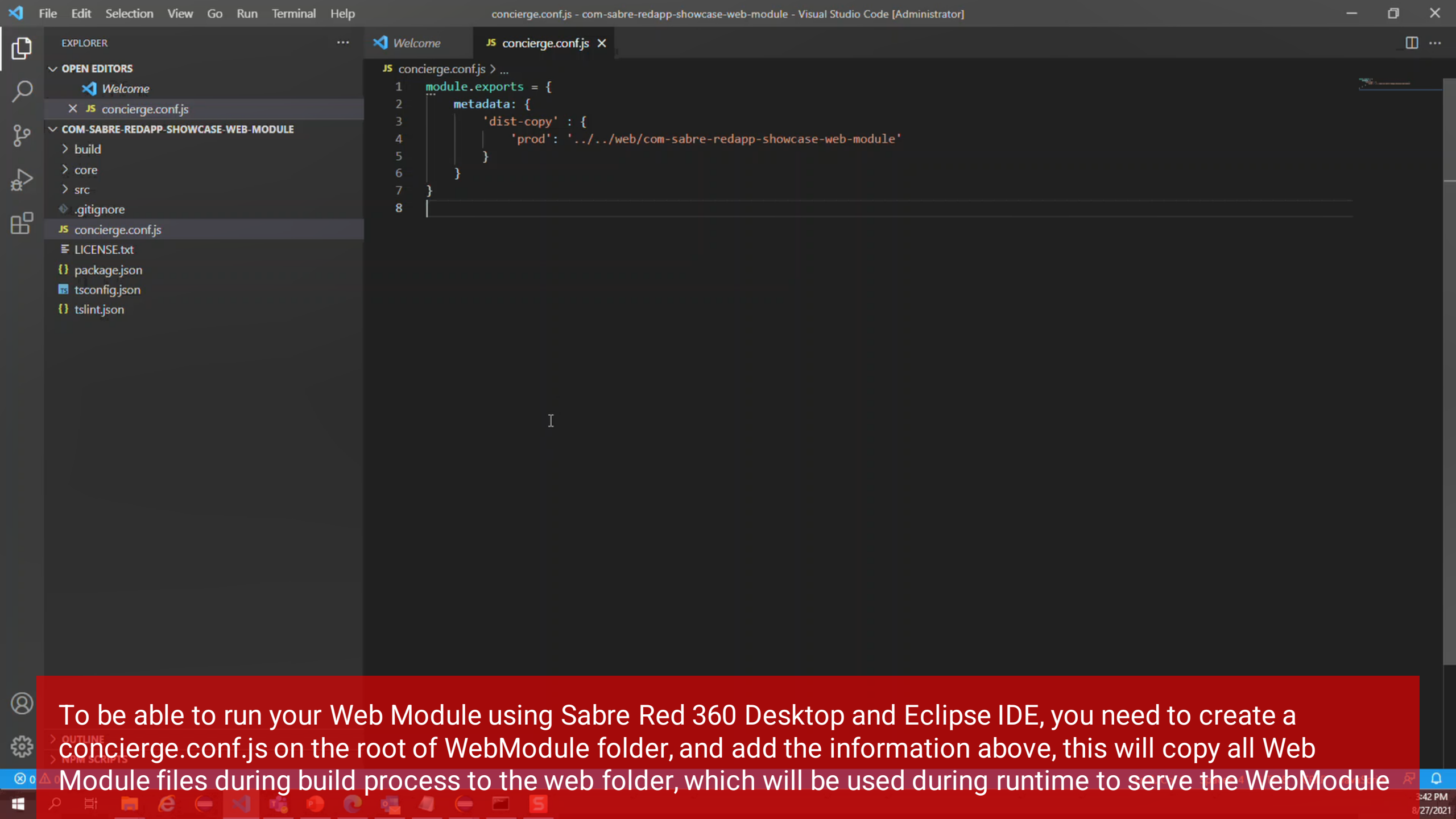
you can inspect the folders and files created, also identify the "root" of the Web Module project, where package.json files resides, there's where you need to issue any additional Concierge command

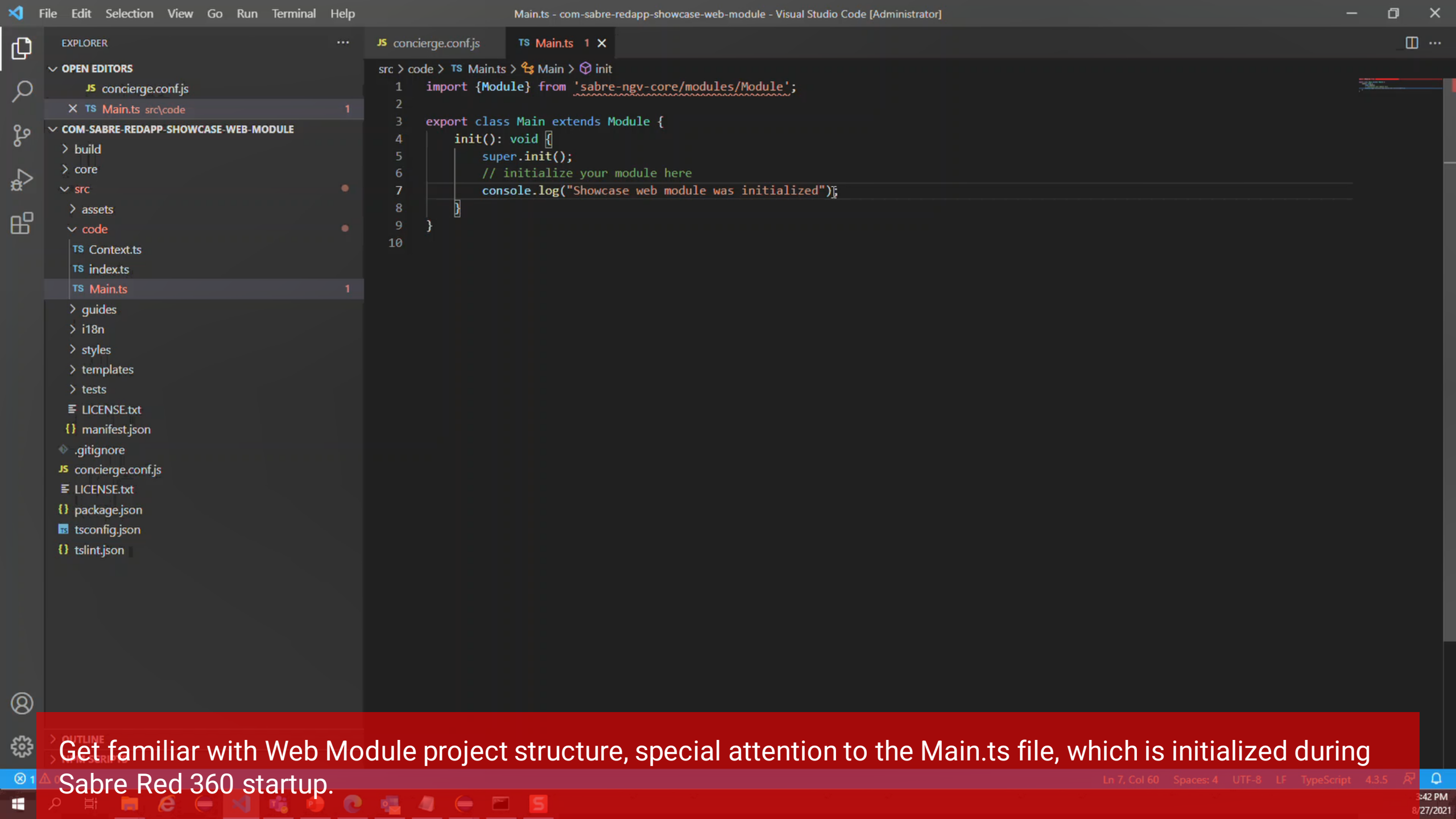


back to Eclipse IDE, just right click on web-src folder and hit Refresh (or F5) to show newy created files, From now its matter of preference, we recommend using Visual Studio code to build your Web Red Apps, but you also may have other developer tools like InteliJ or add-ons to the Eclipse IDE that suits well Web development languages.

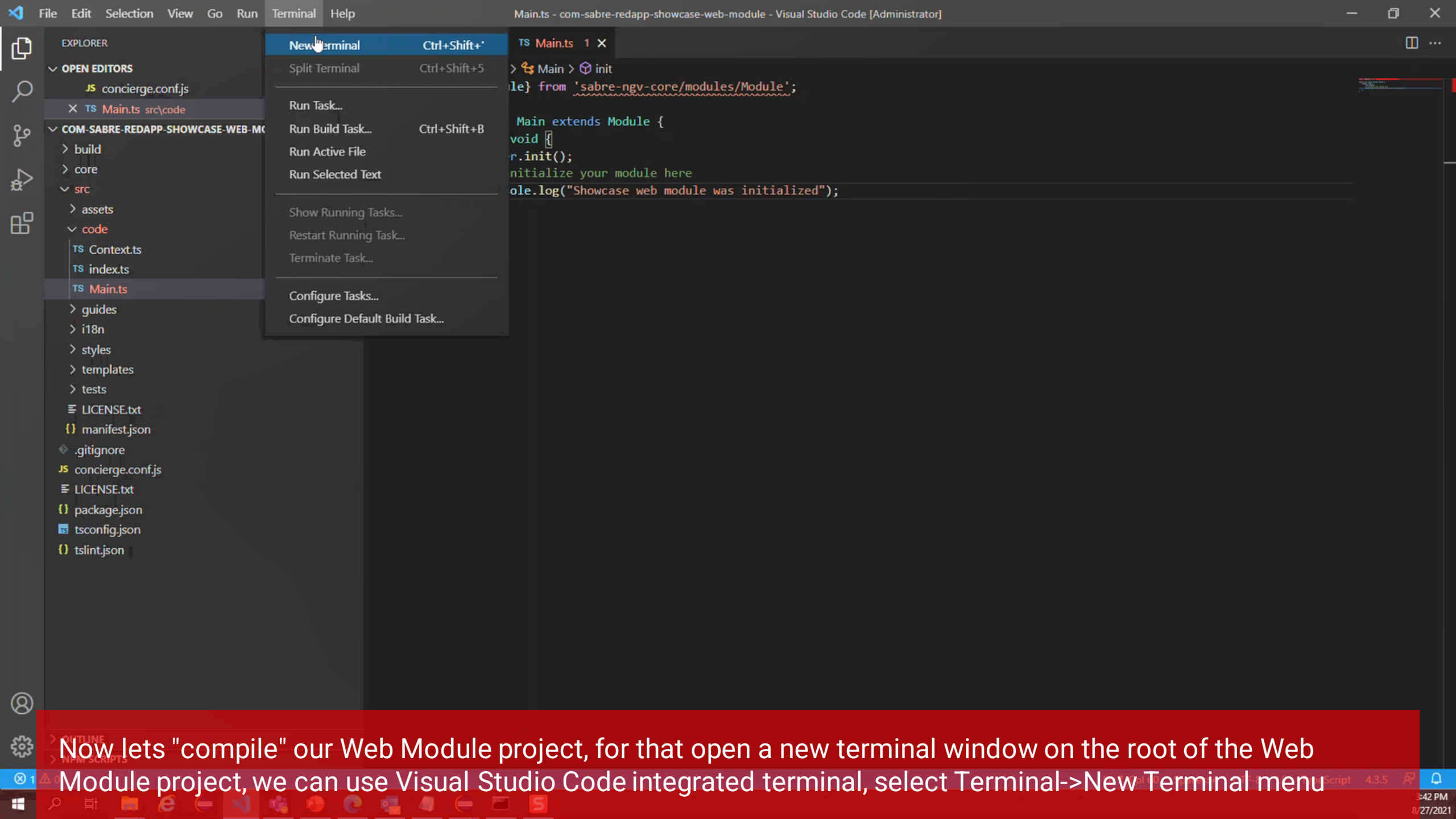


Open Visual Studio code, and then select File->Open Folder..., and then select the Web Module root folder just created

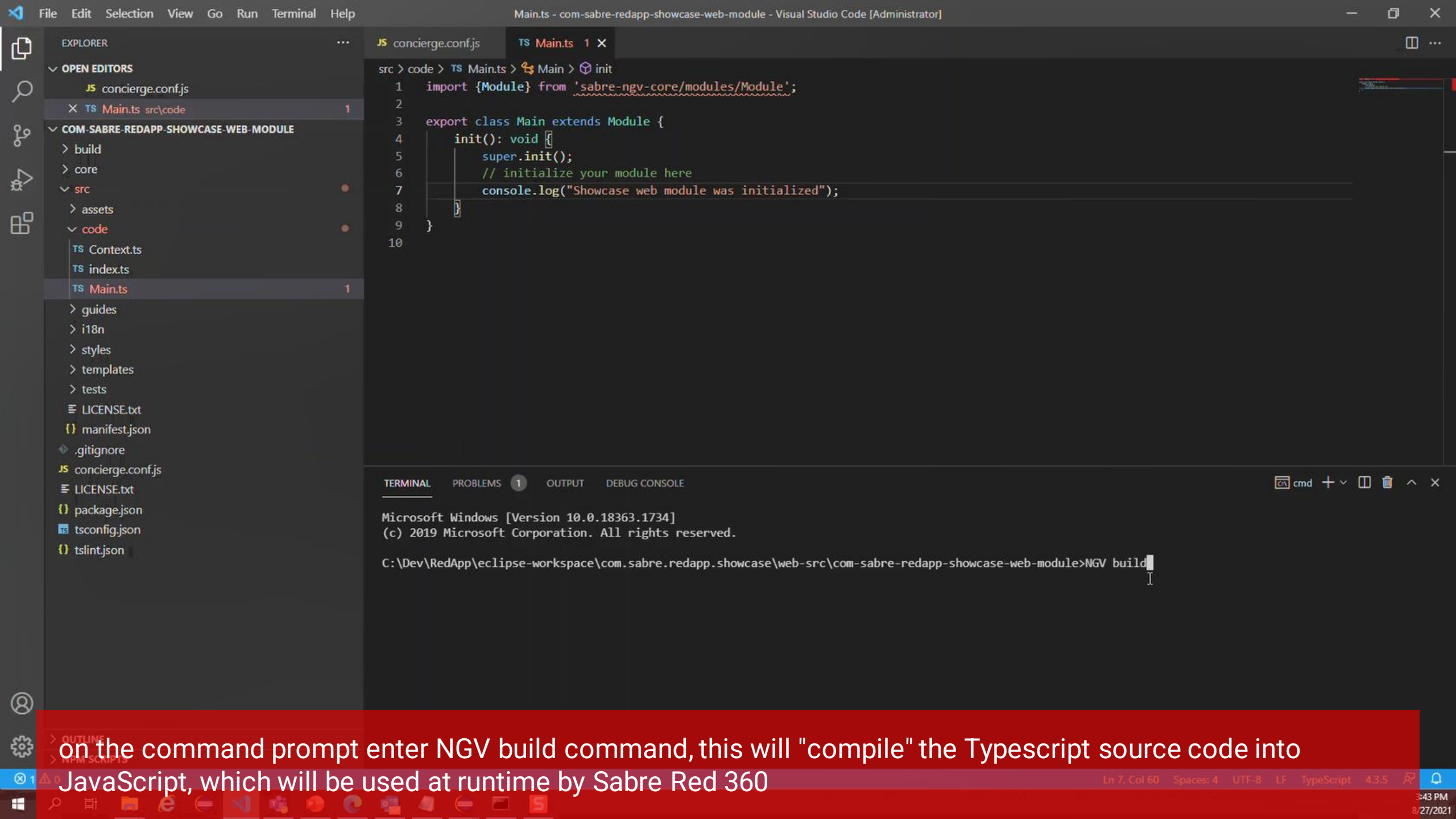

File Edit Selection View Go Run Terminal Help
concierge.conf.js - com-sabre-redapp-showcase-web-module - Visual Studio Code [Administrator]
EXPLORER
OPEN EDITORS
Welcome
concierge.conf.js
COM-SABRE-REDAPP-SHOWCASE-WEB-MODULE
build
core
src
.gitignore
concierge.conf.js
LICENSE.txt
package.json
tsconfig.json
tslint.json
Welcome
concierge.conf.js
concierge.conf.js > ...
1 module.exports = {
2 metadata: {
3 'dist-copy' : {
4 'prod': '../../web/com-sabre-redapp-showcase-web-module'
5 }
6 }
7 }
8
To be able to run your Web Module using Sabre Red 360 Desktop and Eclipse IDE, you need to create a concierge.conf.js on the root of WebModule folder, and add the information above, this will copy all Web Module files during build process to the web folder, which will be used during runtime to serve the WebModule



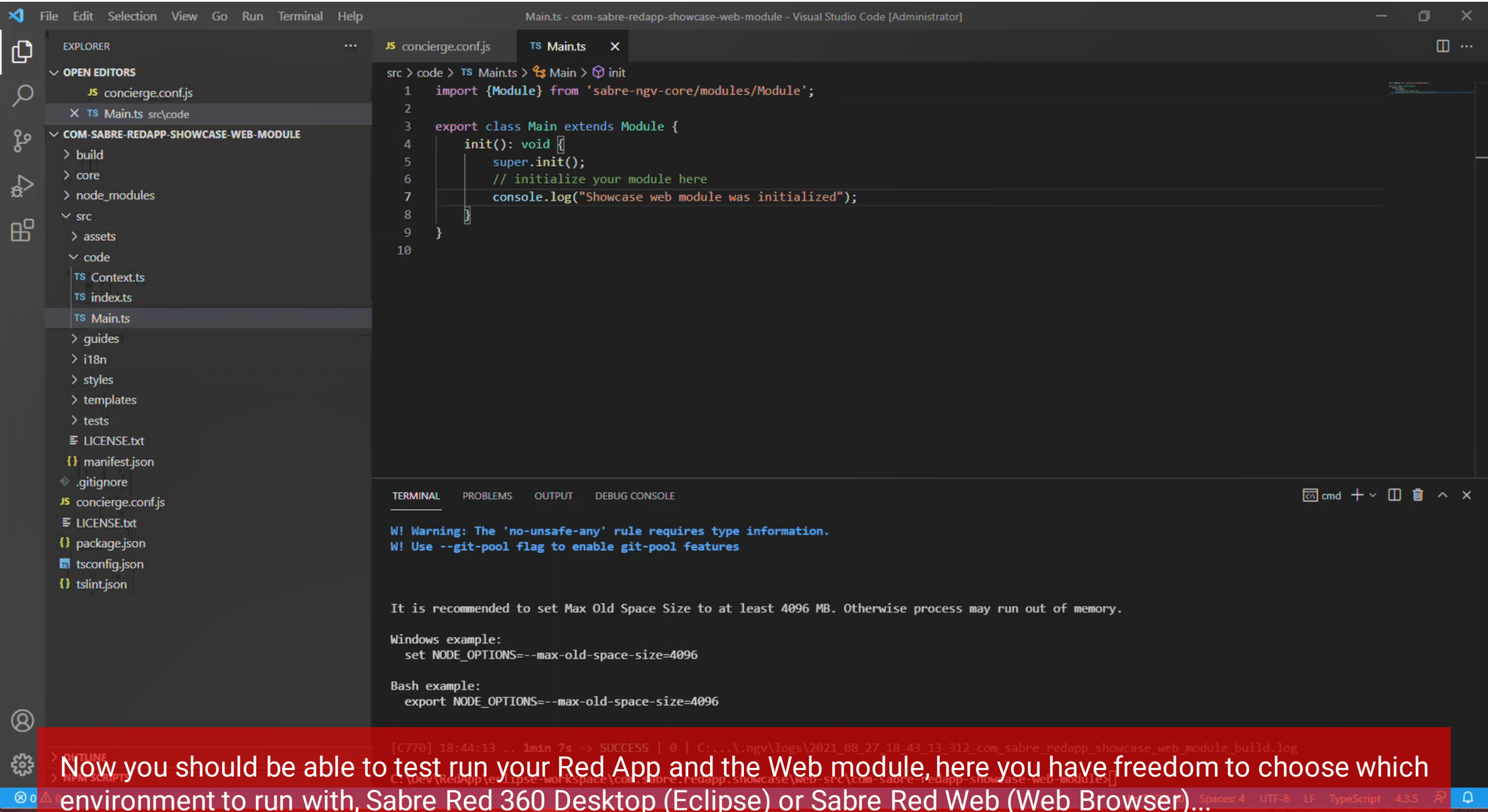
Get familiar with Web Module project structure, special attention to the Main.ts file, which is initialized during Sabre Red 360 startup.



Now lets "compile" our Web Module project, for that open a new terminal window on the root of the Web Module project, we can use Visual Studio Code integrated terminal, select Terminal->New Terminal menu



on the command prompt enter NGV build command, this will "compile" the Typescript source code into JavaScript, which will be used at runtime by Sabre Red 360



Now you should be able to test run your Red App and the Web module, here you have freedom to choose which environment to run with, Sabre Red 360 Desktop (Eclipse) or Sabre Red Web (Web Browser)...

Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project

Build and Debug Red Apps	
Build Red Apps	Basic Red App project structure Web Module project structure
Run / Debug Red Apps	Sabre Red 360 Desktop

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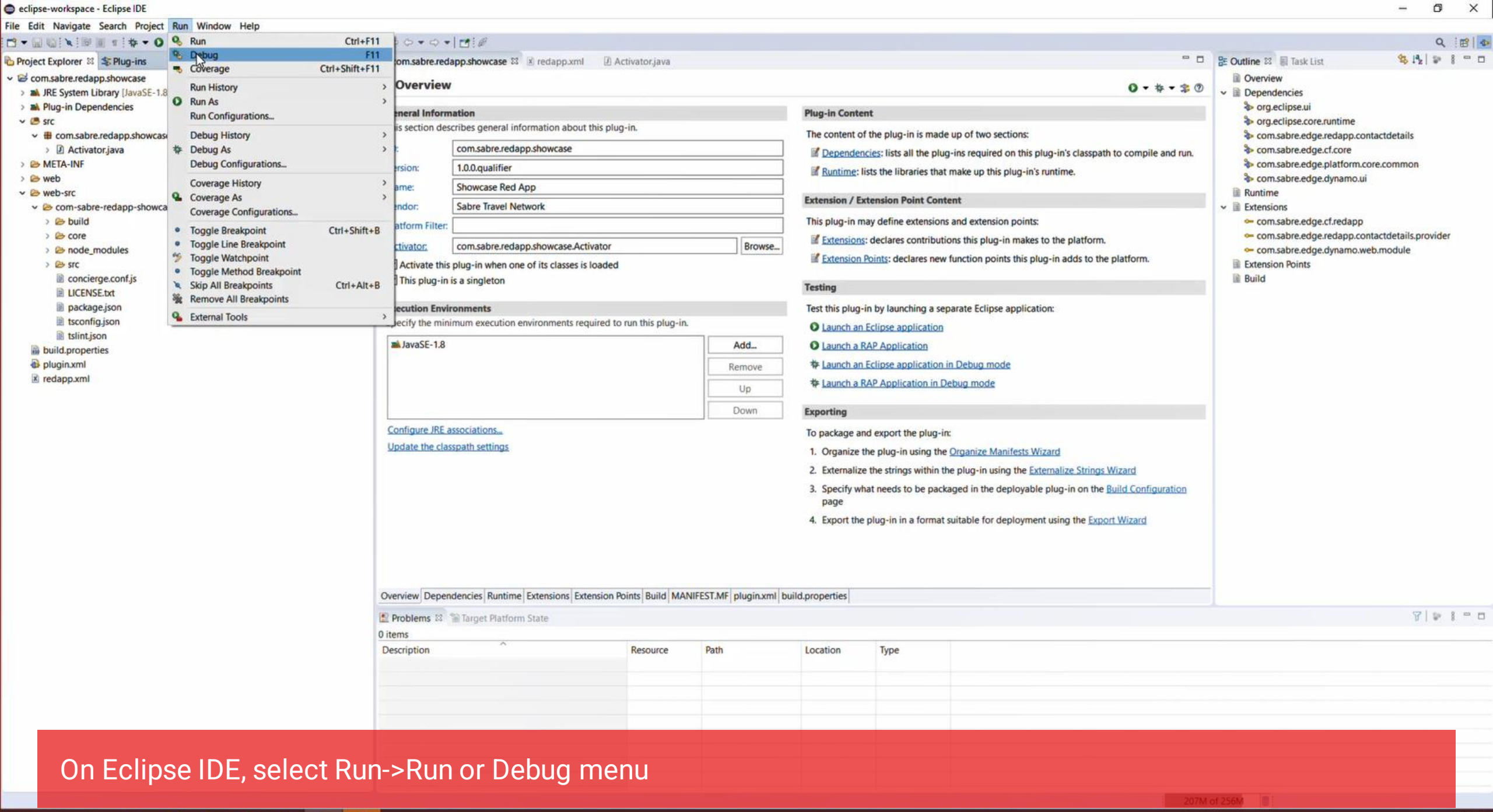
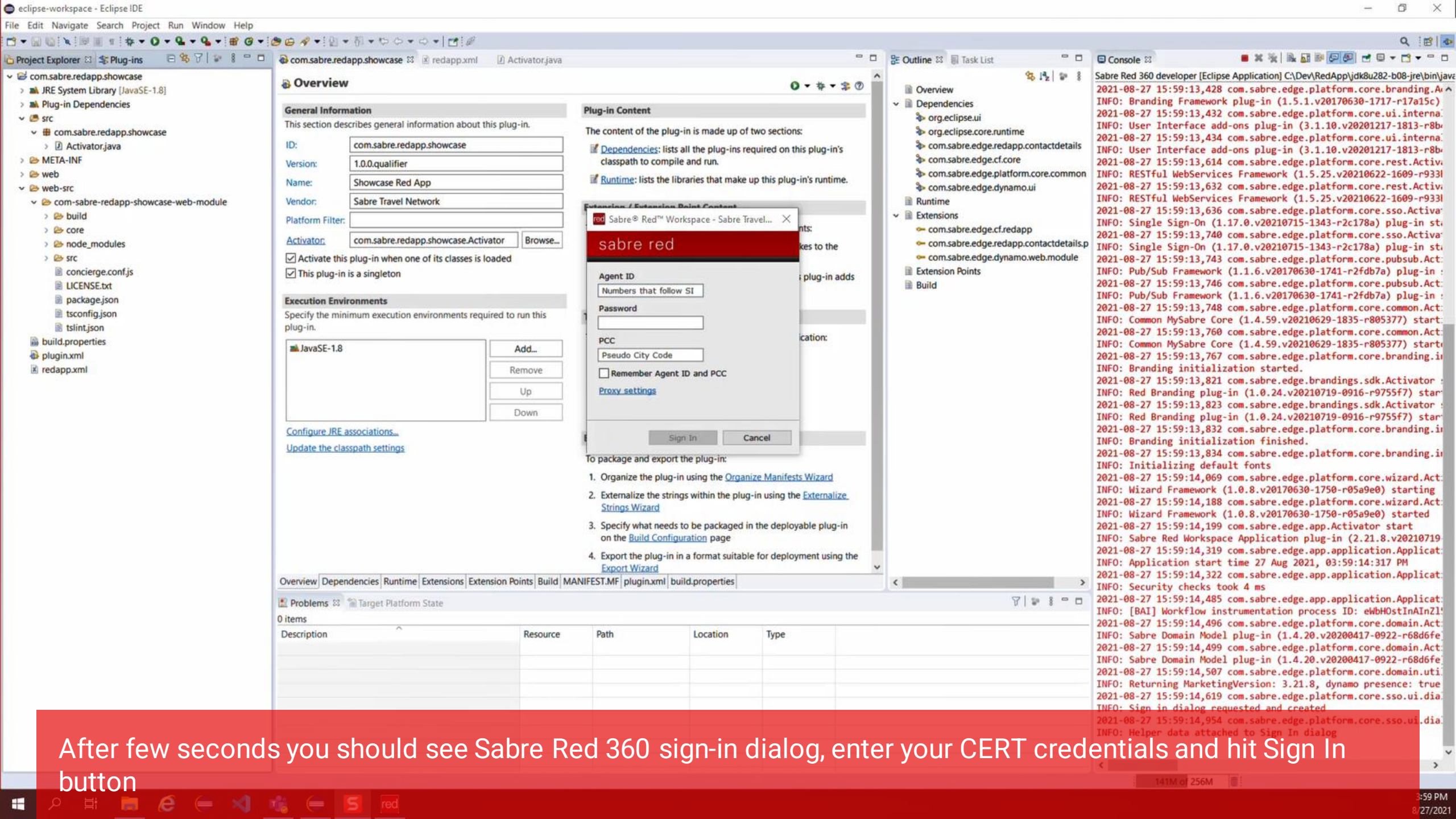
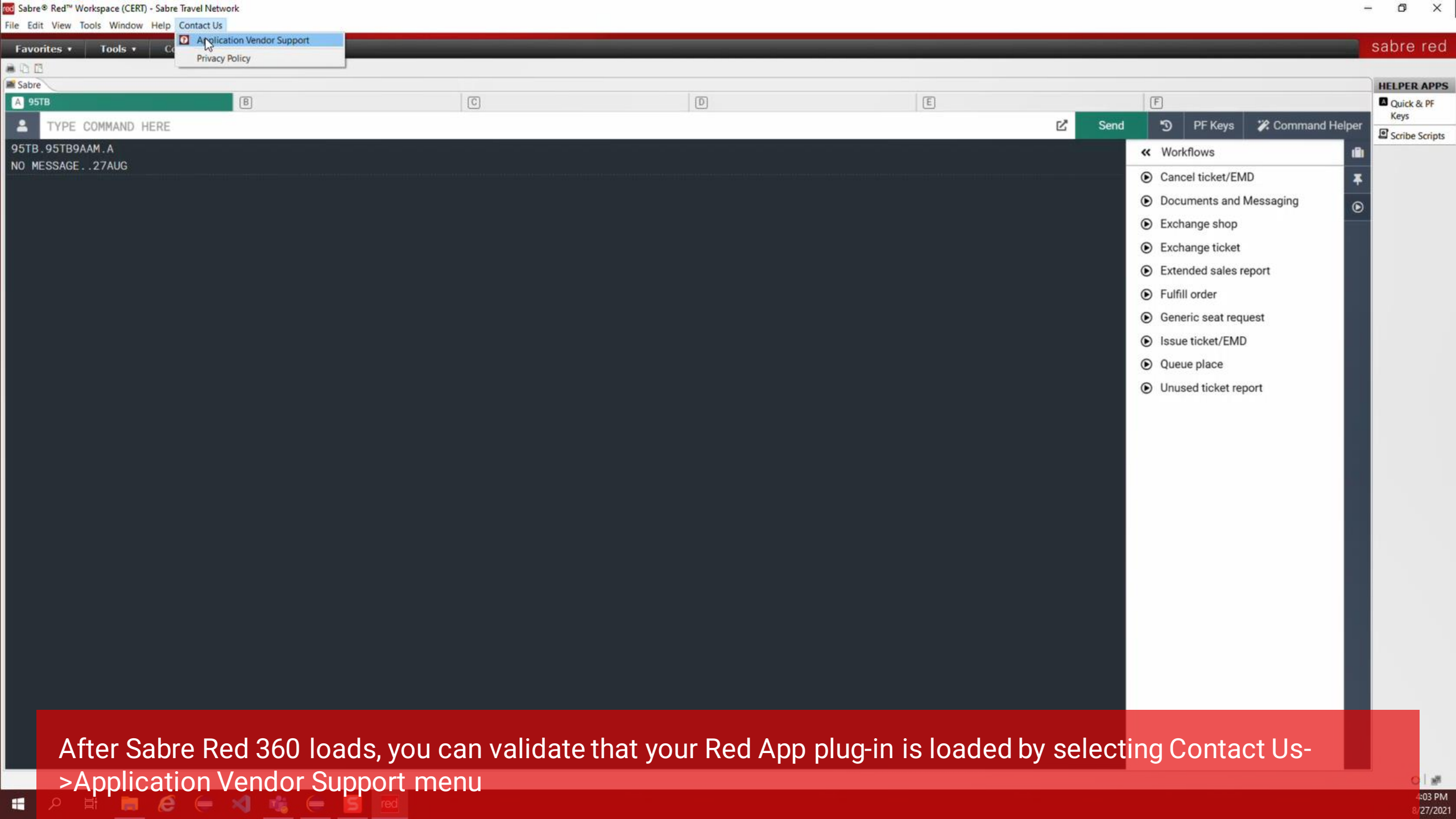
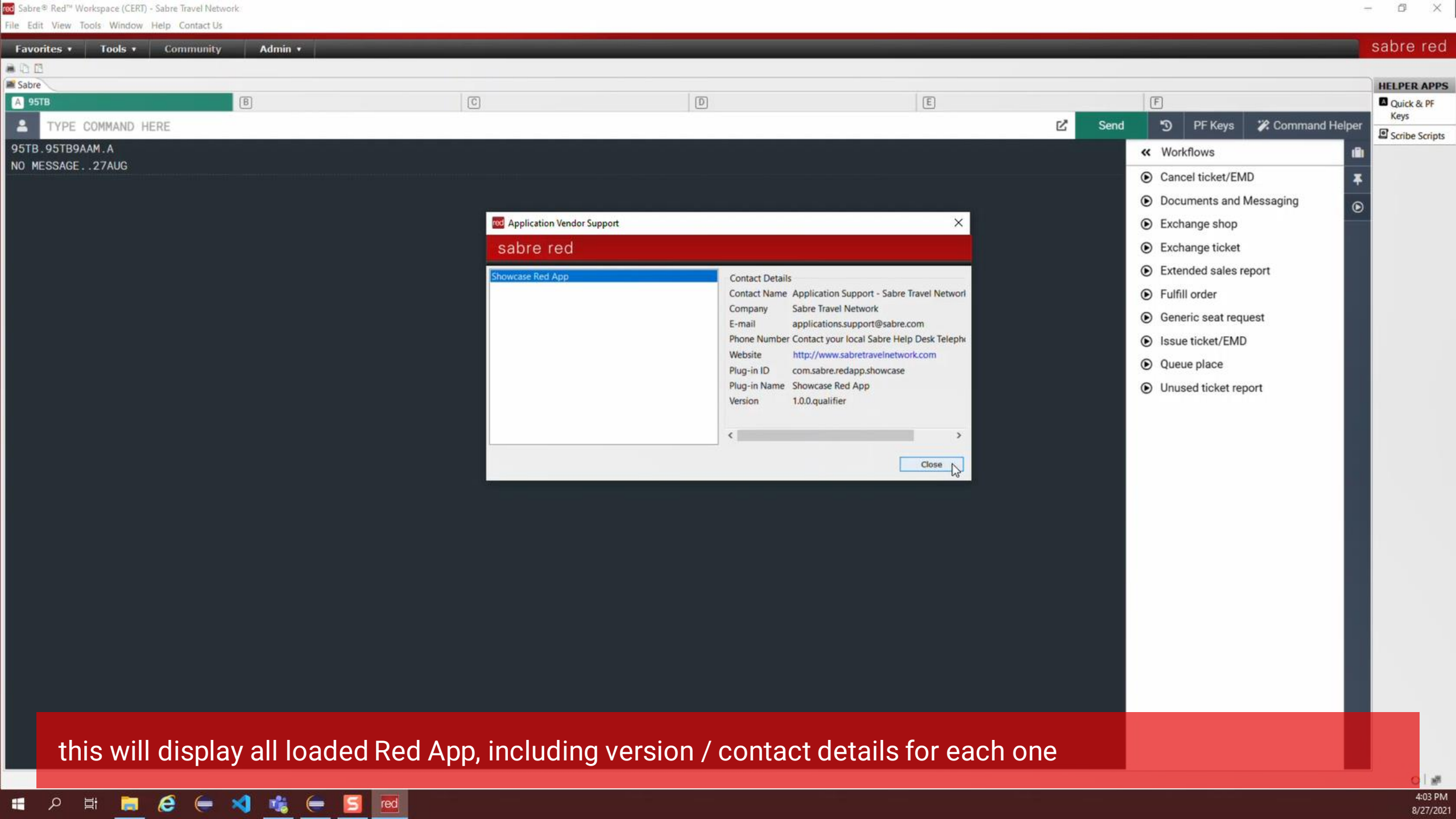

eclipse-workspace - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Run Ctrl+F11
Debug F11
Coverage Ctrl+Shift+F11
Run History
Run As
Run Configurations...
Debug History
Debug As
Debug Configurations...
Coverage History
Coverage As
Coverage Configurations...
Toggle Breakpoint Ctrl+Shift+B
Toggle Line Breakpoint
Toggle Watchpoint
Toggle Method Breakpoint
Skip All Breakpoints Ctrl+Alt+B
Remove All Breakpoints
External Tools
Project Explorer
Plug-ins
com.sabre.redapp.showcase
JRE System Library [JavaSE-1.8]
Plug-in Dependencies
src
Activator.java
META-INF
web
web-src
build
core
node_modules
src
concierge.conf.js
LICENSE.txt
package.json
tsconfig.json
tslint.json
build.properties
plugin.xml
redapp.xml
Overview
General Information
com.sabre.redapp.showcase
1.0.0.qualifier
Showcase Red App
Sabre Travel Network
com.sabre.redapp.showcase.Activator
Browse...
Activate this plug-in when one of its classes is loaded
This plug-in is a singleton
Execution Environments
JavaSE-1.8
Add...
Remove
Up
Down
Configure JRE associations...
Update the classpath settings
Plug-in Content
Dependencies: lists all the plug-ins required on this plug-in's classpath to compile and run.
Runtime: lists the libraries that make up this plug-in's runtime.
Extension / Extension Point Content
Extensions: declares contributions this plug-in makes to the platform.
Extension Points: declares new function points this plug-in adds to the platform.
Testing
Launch an Eclipse application
Launch a RAP Application
Launch an Eclipse application in Debug mode
Launch a RAP Application in Debug mode
Exporting
1. Organize the plug-in using the Organize Manifests Wizard
2. Externalize the strings within the plug-in using the Externalize Strings Wizard
3. Specify what needs to be packaged in the deployable plug-in on the Build Configuration page
4. Export the plug-in in a format suitable for deployment using the Export Wizard
Overview Dependencies Runtime Extensions Extension Points Build MANIFEST.MF plugin.xml build.properties
Outline
Task List
Overview
Dependencies
org.eclipse.ui
org.eclipse.core.runtime
com.sabre.edge.redapp.contactdetails
com.sabre.edge.cf.core
com.sabre.edge.platform.core.common
com.sabre.edge.dynamo.ui
Runtime
Extensions
com.sabre.edge.cf.redapp
com.sabre.edge.redapp.contactdetails.provider
com.sabre.edge.dynamo.web.module
Extension Points
Build
Problems
Target Platform State
0 items
Description
Resource
Path
Location
Type
On Eclipse IDE, select Run->Run or Debug menu
207M of 256M
3:59 PM
8/27/2021

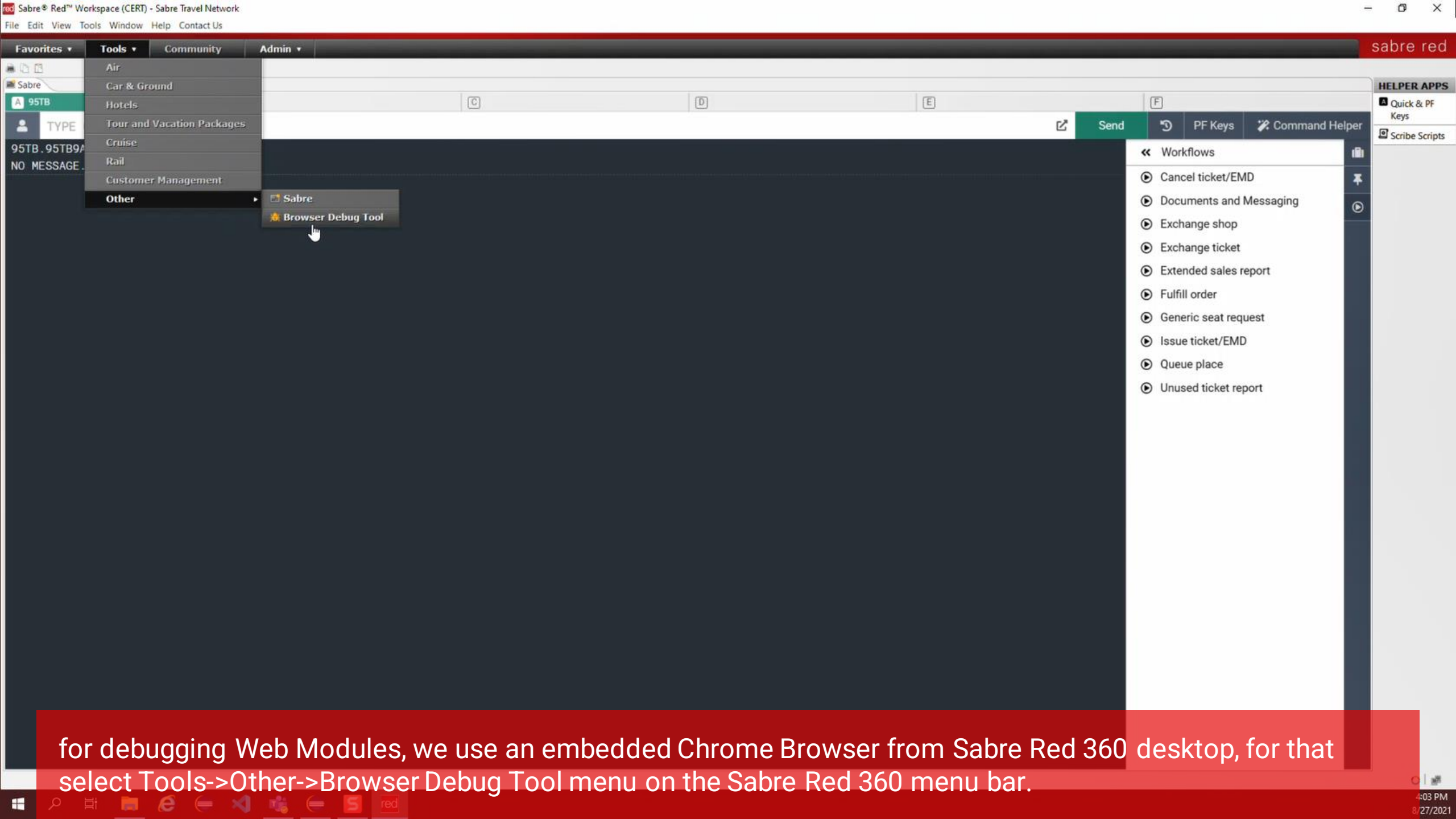


After few seconds you should see Sabre Red 360 sign-in dialog, enter your CERT credentials and hit Sign In button

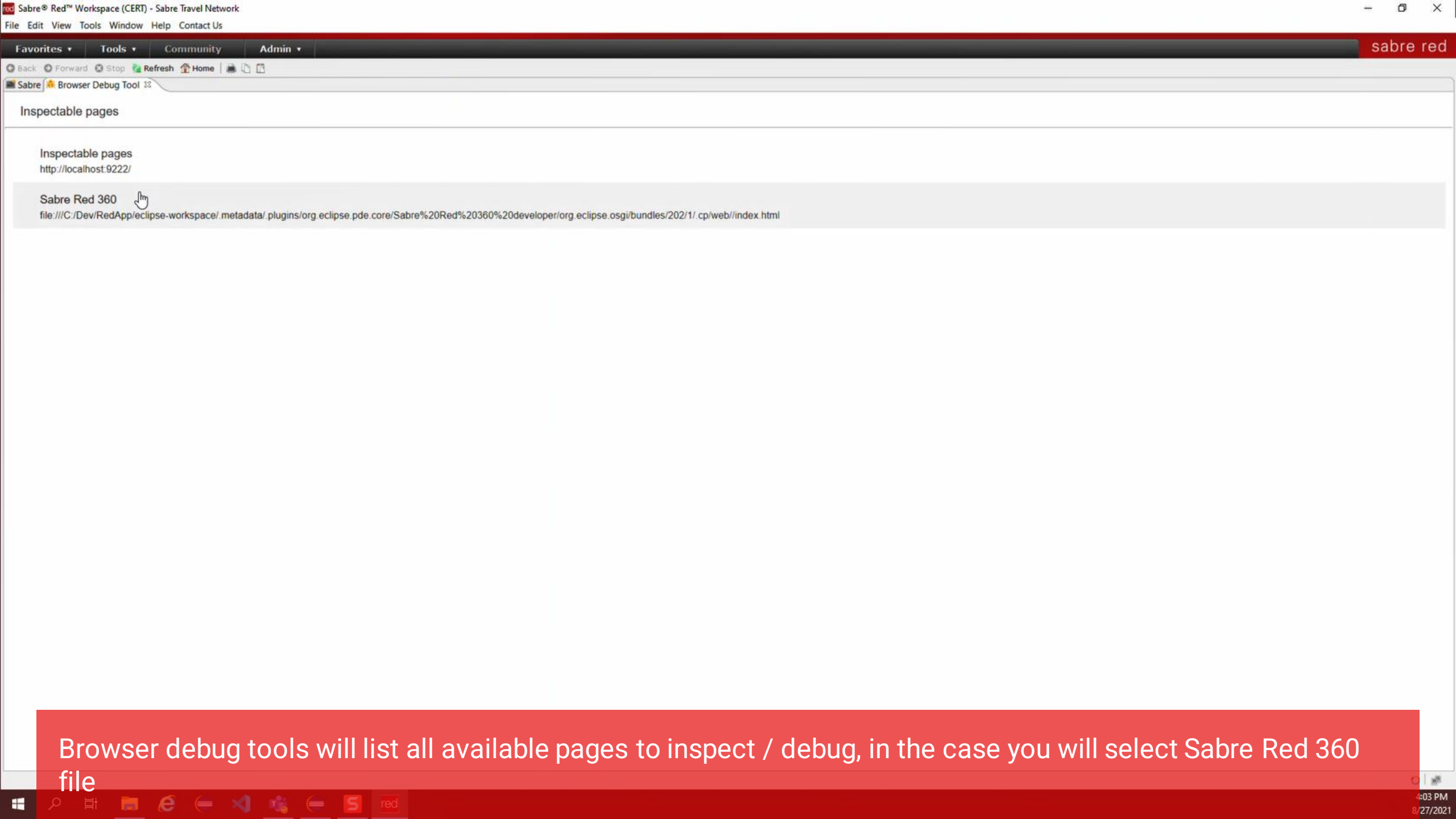


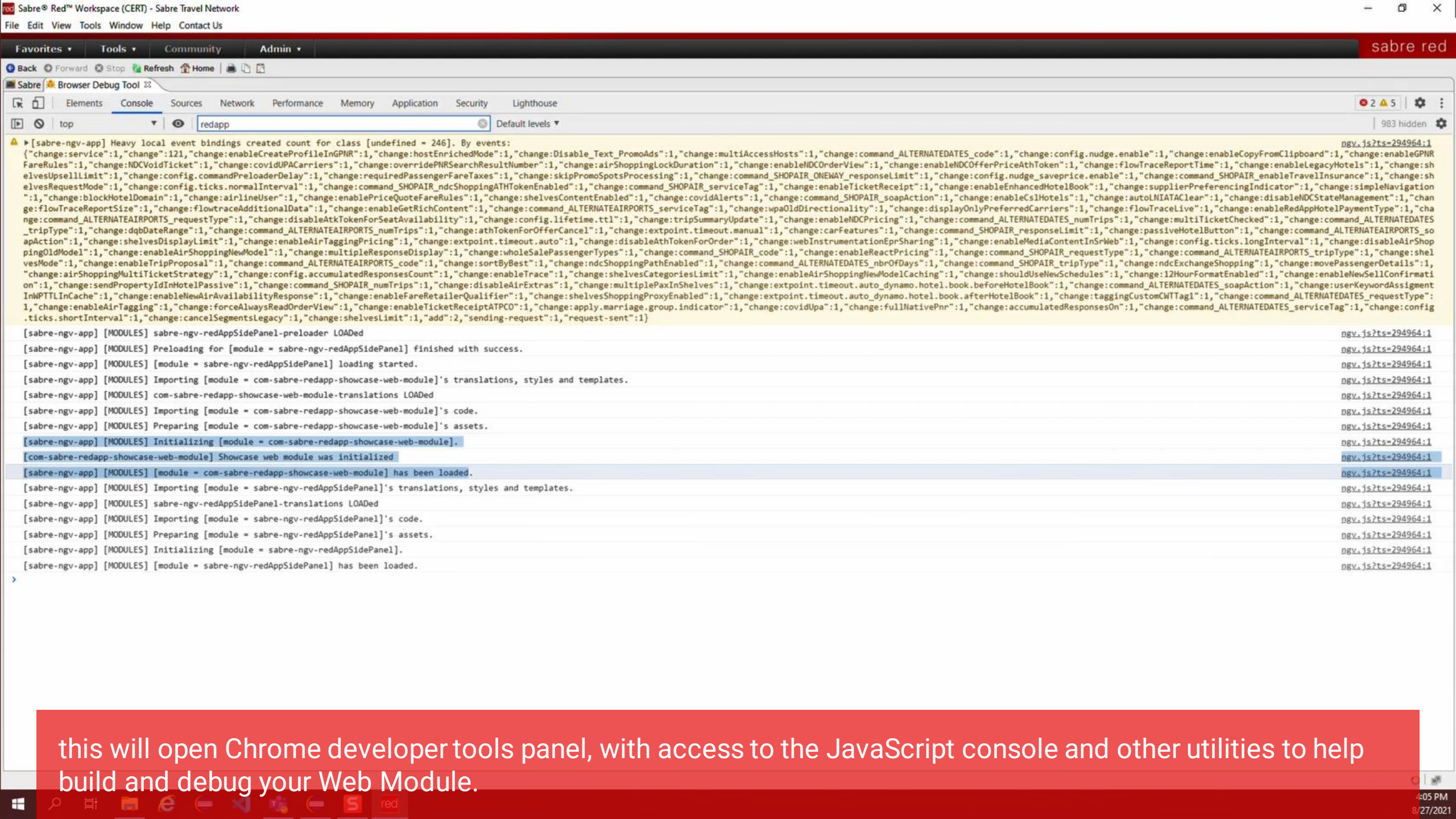
After Sabre Red 360 loads, you can validate that your Red App plug-in is loaded by selecting Contact Us->Application Vendor Support menu


Sabre® Red™ Workspace (CERT) - Sabre Travel Network
File Edit View Tools Window Help Contact Us
Favorites Tools Community Admin
sabre red
Sabre
95TB
TYPE COMMAND HERE
Send
PF Keys
Command Helper
95TB.95TB9AAM.A
NO MESSAGE..27AUG
HELPER APPS
Quick & PF Keys
Scribe Scripts
Workflows
Cancel ticket/EMD
Documents and Messaging
Exchange shop
Exchange ticket
Extended sales report
Fulfill order
Generic seat request
Issue ticket/EMD
Queue place
Unused ticket report
Application Vendor Support
sabre red
Showcase Red App
Contact Details
Contact Name Application Support - Sabre Travel Networl
Company Sabre Travel Network
E-mail applications.support@sabre.com
Phone Number Contact your local Sabre Help Desk Telephe
Website http://www.sabretravelnetwork.com
Plug-in ID com.sabre.redapp.showcase
Plug-in Name Showcase Red App
Version 1.0.0.qualifier
Close
this will display all loaded Red App, including version / contact details for each one
4:03 PM
8/27/2021



for debugging Web Modules, we use an embedded Chrome Browser from Sabre Red 360 desktop, for that select Tools->Other->Browser Debug Tool menu on the Sabre Red 360 menu bar.


Sabre® Red™ Workspace (CERT) - Sabre Travel Network
File Edit View Tools Window Help Contact Us
Favorites Tools Community Admin
sabre red
Back Forward Stop Refresh Home
Sabre Browser Debug Tool
Inspectable pages
Inspectable pages
http://localhost:9222/
Sabre Red 360
file:///C:/Dev/RedApp/eclipse-workspace/.metadata/.plugins/org.eclipse.pde.core/Sabre%20Red%20360%20developer/org.eclipse.osgi/bundles/202/1/.cp/web//index.html
Browser debug tools will list all available pages to inspect / debug, in the case you will select Sabre Red 360 file


Sabre® Red™ Workspace (CERT) - Sabre Travel Network
File Edit View Tools Window Help Contact Us
Favorites Tools Community Admin
sabre red
Back Forward Stop Refresh Home
Sabre Browser Debug Tool
Elements Console Sources Network Performance Memory Application Security Lighthouse
top
redapp
Default levels
983 hidden
[sabre-ngv-app] Heavy local event bindings created count for class [undefined = 246]. By events:
{"change:service":1,"change":121,"change:enableCreateProfileInGPNR":1,"change:hostEnrichedMode":1,"change:Disable_Text_PromoAds":1,"change:multiAccessHosts":1,"change:command_ALTERNATEDATES_code":1,"change:config.nudge.enable":1,"change:enableCopyFromClipboard":1,"change:enableGPNR
FareRules":1,"change:NDCVoidTicket":1,"change:covidUPACarriers":1,"change:overridePNRSearchResultNumber":1,"change:airShoppingLockDuration":1,"change:enableNDCOrderView":1,"change:enableNDCOfferPriceAthToken":1,"change:flowTraceReportTime":1,"change:enableLegacyHotels":1,"change:sh
elvesUpsellLimit":1,"change:config.commandPreloaderDelay":1,"change:requiredPassengerFareTaxes":1,"change:skipPromoSpotsProcessing":1,"change:command_SHOPAIR_ONEWAY_responseLimit":1,"change:config.nudge_saveprice.enable":1,"change:command_SHOPAIR_enableTravelInsurance":1,"change:sh
elvesRequestMode":1,"change:config.ticks.normalInterval":1,"change:command_SHOPAIR_ndcShoppingATHTokenEnabled":1,"change:command_SHOPAIR_serviceTag":1,"change:enableTicketReceipt":1,"change:enableEnhancedHotelBook":1,"change:supplierPreferencingIndicator":1,"change:simpleNavigation
":1,"change:blockHotelDomain":1,"change:airlineUser":1,"change:enablePriceQuoteFareRules":1,"change:shelvesContentEnabled":1,"change:covidAlerts":1,"change:command_SHOPAIR_soapAction":1,"change:enableCslHotels":1,"change:autoLNIATAClear":1,"change:disableNDCStateManagement":1,"chan
ge:flowTraceReportSize":1,"change:flowtraceAdditionalData":1,"change:enableGetRichContent":1,"change:command_ALTERNATEAIRPORTS_serviceTag":1,"change:wpaOldDirectionality":1,"change:displayOnlyPreferredCarriers":1,"change:flowTraceLive":1,"change:enableRedAppHotelPaymentType":1,"cha
nge:command_ALTERNATEAIRPORTS_requestType":1,"change:disableAtkTokenForSeatAvailability":1,"change:config.lifetime.ttl":1,"change:tripSummaryUpdate":1,"change:enableNDCPricing":1,"change:command_ALTERNATEDATES_numTrips":1,"change:multiTicketChecked":1,"change:command_ALTERNATEDATES
_tripType":1,"change:dqbDateRange":1,"change:command_ALTERNATEAIRPORTS_numTrips":1,"change:athTokenForOfferCancel":1,"change:extpoint.timeout.manual":1,"change:carFeatures":1,"change:command_SHOPAIR_responseLimit":1,"change:passiveHotelButton":1,"change:command_ALTERNATEAIRPORTS_so
apAction":1,"change:shelvesDisplayLimit":1,"change:enableAirTaggingPricing":1,"change:extpoint.timeout.auto":1,"change:disableAthTokenForOrder":1,"change:webInstrumentationEprSharing":1,"change:enableMediaContentInSrWeb":1,"change:config.ticks.longInterval":1,"change:disableAirShop
pingOldModel":1,"change:enableAirShoppingNewModel":1,"change:multipleResponseDisplay":1,"change:wholeSalePassengerTypes":1,"change:command_SHOPAIR_code":1,"change:enableReactPricing":1,"change:command_SHOPAIR_requestType":1,"change:command_ALTERNATEAIRPORTS_tripType":1,"change:shel
vesMode":1,"change:enableTripProposal":1,"change:command_ALTERNATEAIRPORTS_code":1,"change:sortByBest":1,"change:ndcShoppingPathEnabled":1,"change:command_ALTERNATEDATES_nbrOfDays":1,"change:command_SHOPAIR_tripType":1,"change:ndcExchangeShopping":1,"change:movePassengerDetails":1,
"change:airShoppingMultiTicketStrategy":1,"change:config.accumulatedResponsesCount":1,"change:enableTrace":1,"change:shelvesCategoriesLimit":1,"change:enableAirShoppingNewModelCaching":1,"change:shouldUseNewSchedules":1,"change:12HourFormatEnabled":1,"change:enableNewSellConfirmati
on":1,"change:sendPropertyIdInHotelPassive":1,"change:command_SHOPAIR_numTrips":1,"change:disableAirExtras":1,"change:multiplePaxInShelves":1,"change:extpoint.timeout.auto_dynamo.hotel.book.beforeHotelBook":1,"change:command_ALTERNATEDATES_soapAction":1,"change:userKeywordAssigment
InWPTTLInCache":1,"change:enableNewAirAvailabilityResponse":1,"change:enableFareRetailerQualifier":1,"change:shelvesShoppingProxyEnabled":1,"change:extpoint.timeout.auto_dynamo.hotel.book.afterHotelBook":1,"change:taggingCustomCWTTag1":1,"change:command_ALTERNATEDATES_requestType":
1,"change:enableAirTagging":1,"change:forceAlwaysReadOrderView":1,"change:enableTicketReceiptATPCO":1,"change:apply.marriage.group.indicator":1,"change:covidUpa":1,"change:fullNativePnr":1,"change:accumulatedResponsesOn":1,"change:command_ALTERNATEDATES_serviceTag":1,"change:config
.ticks.shortInterval":1,"change:cancelSegmentsLegacy":1,"change:shelvesLimit":1,"add":2,"sending-request":1,"request-sent":1}
ngv.js?ts=294964:1
[sabre-ngv-app] [MODULES] sabre-ngv-redAppSidePanel-preloader LOADed
[sabre-ngv-app] [MODULES] Preloading for [module = sabre-ngv-redAppSidePanel] finished with success.
[sabre-ngv-app] [MODULES] [module = sabre-ngv-redAppSidePanel] loading started.
[sabre-ngv-app] [MODULES] Importing [module = com-sabre-redapp-showcase-web-module]'s translations, styles and templates.
[sabre-ngv-app] [MODULES] com-sabre-redapp-showcase-web-module-translations LOADed
[sabre-ngv-app] [MODULES] Importing [module = com-sabre-redapp-showcase-web-module]'s code.
[sabre-ngv-app] [MODULES] Preparing [module = com-sabre-redapp-showcase-web-module]'s assets.
[sabre-ngv-app] [MODULES] Initializing [module = com-sabre-redapp-showcase-web-module].
[com-sabre-redapp-showcase-web-module] Showcase web module was initialized
[sabre-ngv-app] [MODULES] [module = com-sabre-redapp-showcase-web-module] has been loaded.
[sabre-ngv-app] [MODULES] Importing [module = sabre-ngv-redAppSidePanel]'s translations, styles and templates.
[sabre-ngv-app] [MODULES] sabre-ngv-redAppSidePanel-translations LOADed
[sabre-ngv-app] [MODULES] Importing [module = sabre-ngv-redAppSidePanel]'s code.
[sabre-ngv-app] [MODULES] Preparing [module = sabre-ngv-redAppSidePanel]'s assets.
[sabre-ngv-app] [MODULES] Initializing [module = sabre-ngv-redAppSidePanel].
[sabre-ngv-app] [MODULES] [module = sabre-ngv-redAppSidePanel] has been loaded.
this will open Chrome developer tools panel, with access to the JavaScript console and other utilities to help build and debug your Web Module.

Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project

Build and Debug Red Apps	
Build Red Apps	Basic Red App project structure Web Module project structure
Run / Debug Red Apps	Sabre Red Web

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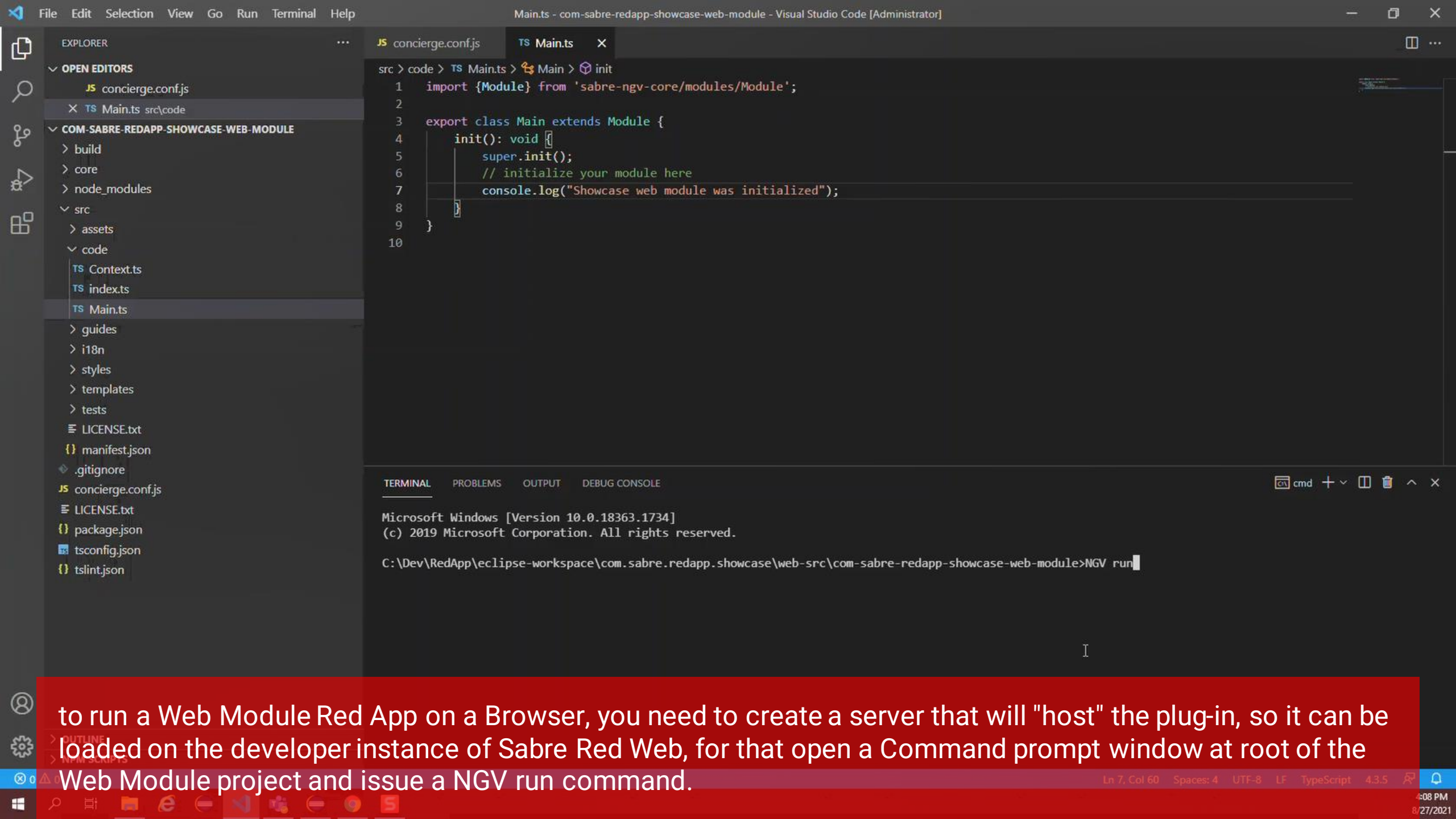
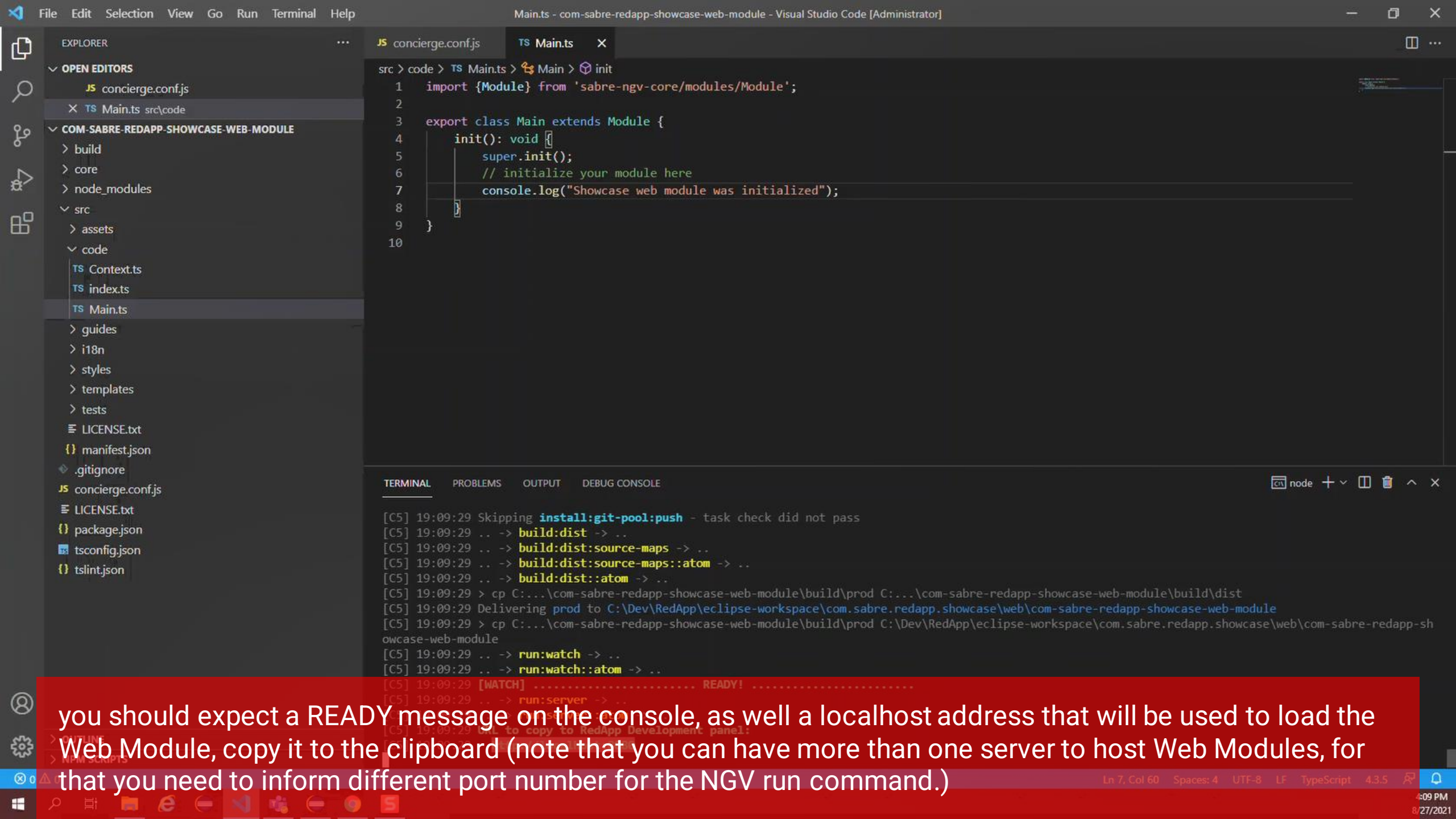
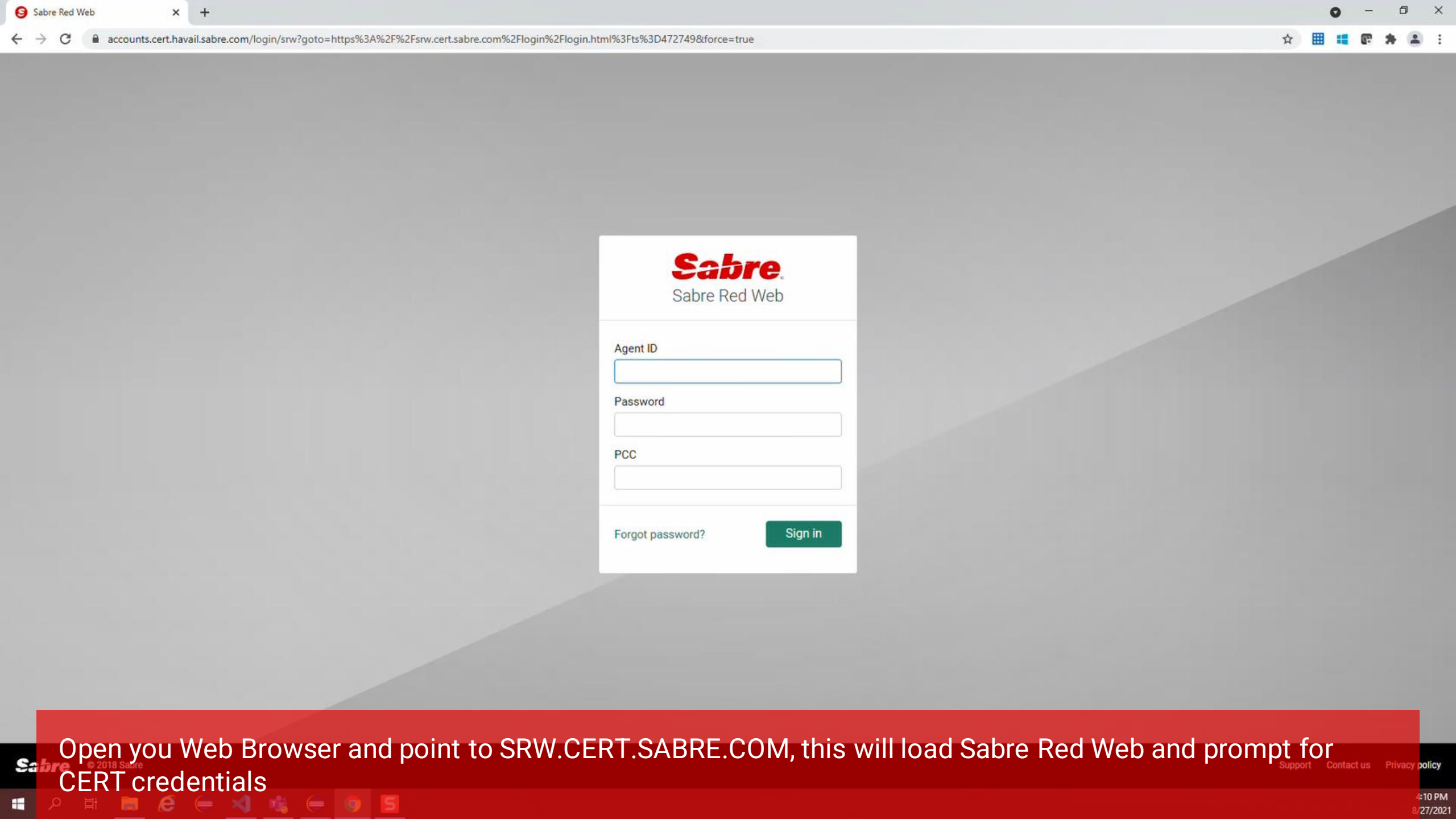
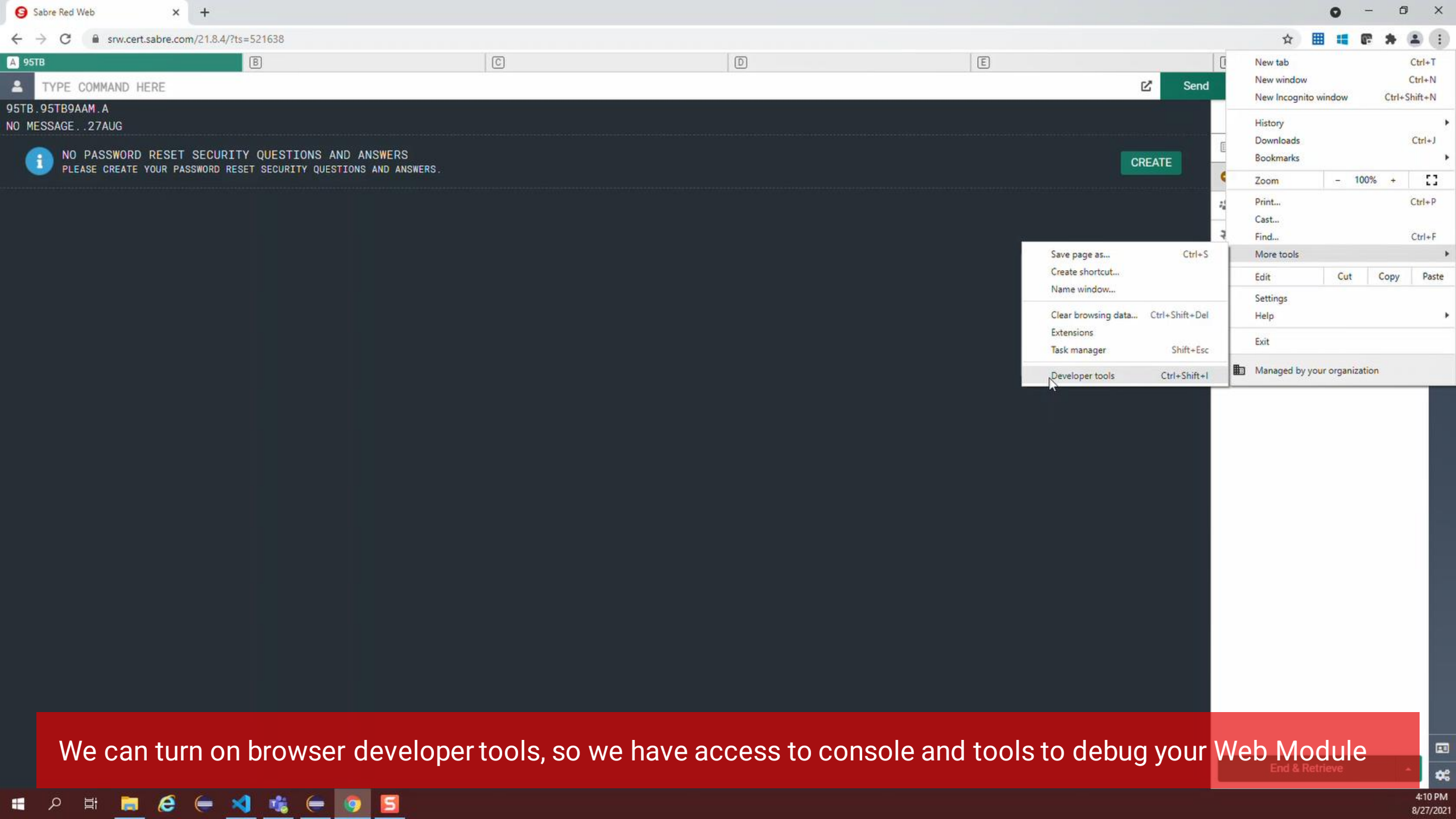

File Edit Selection View Go Run Terminal Help
Main.ts - com-sabre-redapp-showcase-web-module - Visual Studio Code [Administrator]
EXPLORER
OPEN EDITORS
concierge.conf.js
Main.ts src\code
COM-SABRE-REDAPP-SHOWCASE-WEB-MODULE
build
core
node_modules
src
assets
code
Context.ts
index.ts
Main.ts
guides
i18n
styles
templates
tests
LICENSE.txt
manifest.json
.gitignore
concierge.conf.js
LICENSE.txt
package.json
tsconfig.json
tslint.json
concierge.conf.js
Main.ts
src > code > Main.ts > Main > init
1 import {Module} from 'sabre-ngv-core/modules/Module';
2
3 export class Main extends Module {
4 init(): void {
5 super.init();
6 // initialize your module here
7 console.log("Showcase web module was initialized");
8 }
9 }
10
TERMINAL
PROBLEMS
OUTPUT
DEBUG CONSOLE
cmd
Microsoft Windows [Version 10.0.18363.1734]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Dev\RedApp\eclipse-workspace\com.sabre.redapp.showcase\web-src\com-sabre-redapp-showcase-web-module>NGV run
to run a Web Module Red App on a Browser, you need to create a server that will "host" the plug-in, so it can be loaded on the developer instance of Sabre Red Web, for that open a Command prompt window at root of the Web Module project and issue a NGV run command.

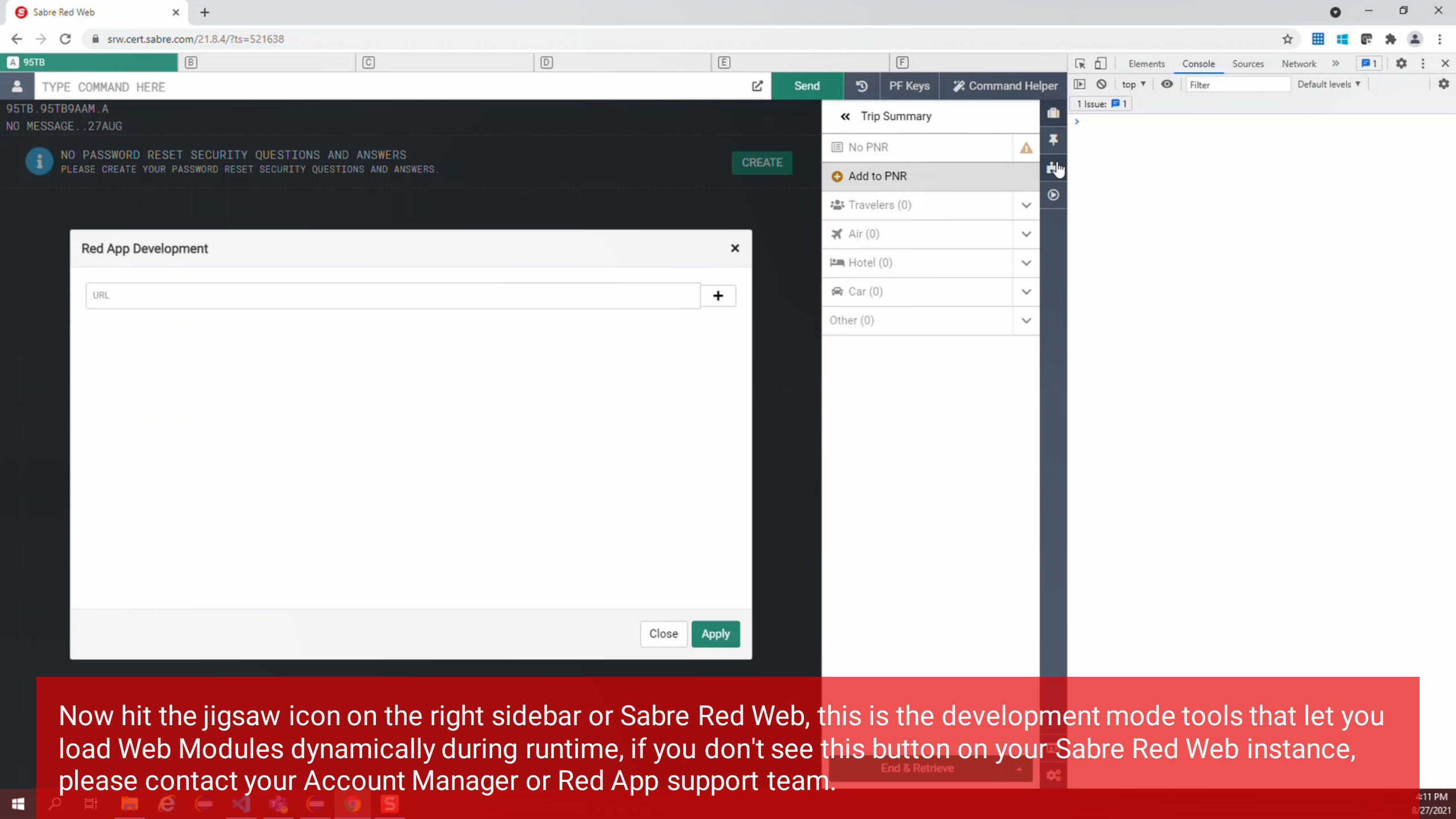


you should expect a READY message on the console, as well a localhost address that will be used to load the Web Module, copy it to the clipboard (note that you can have more than one server to host Web Modules, for that you need to inform different port number for the NGV run command.)

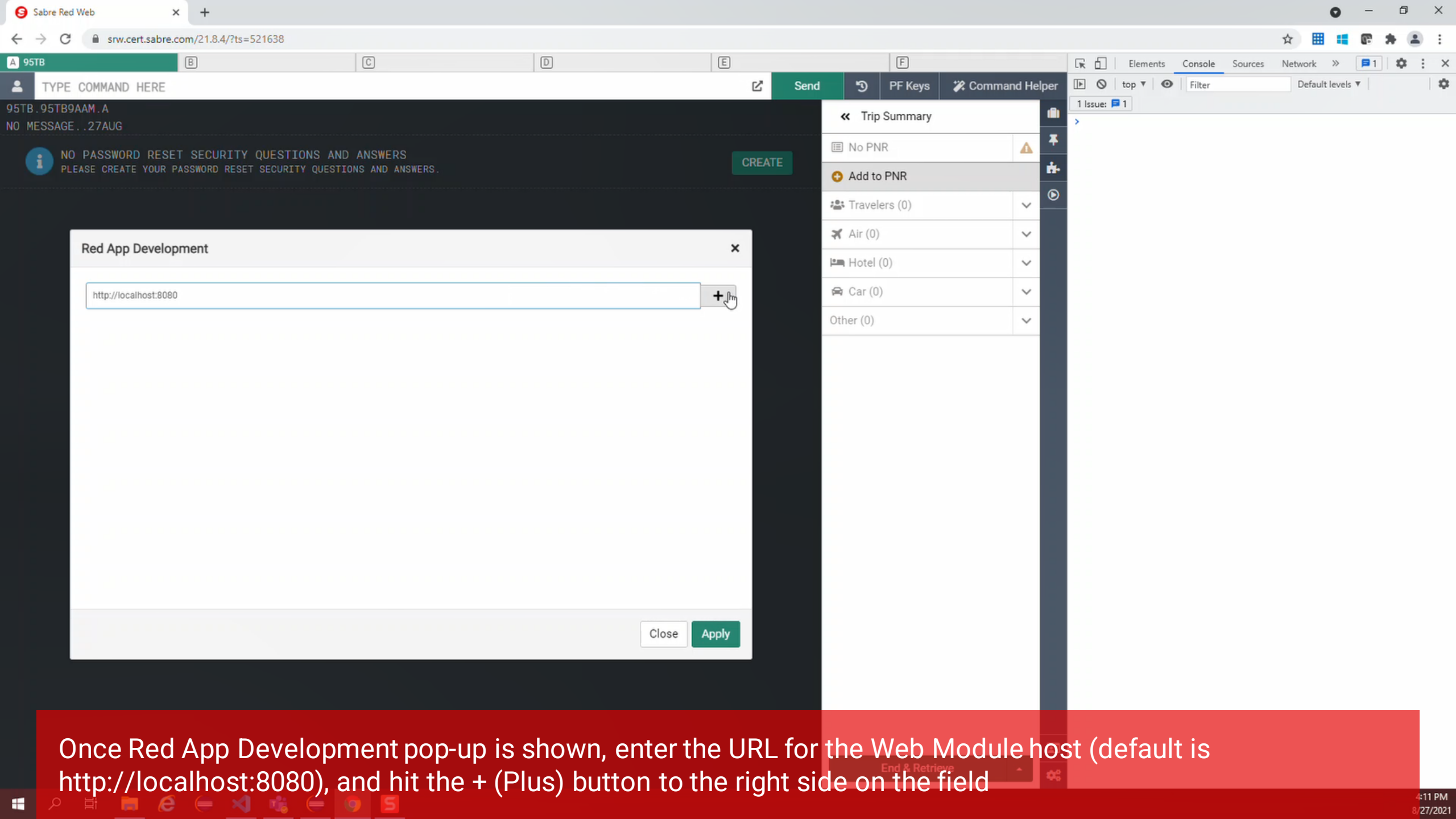


Open you Web Browser and point to SRW.CERT.SABRE.COM, this will load Sabre Red Web and prompt for CERT credentials

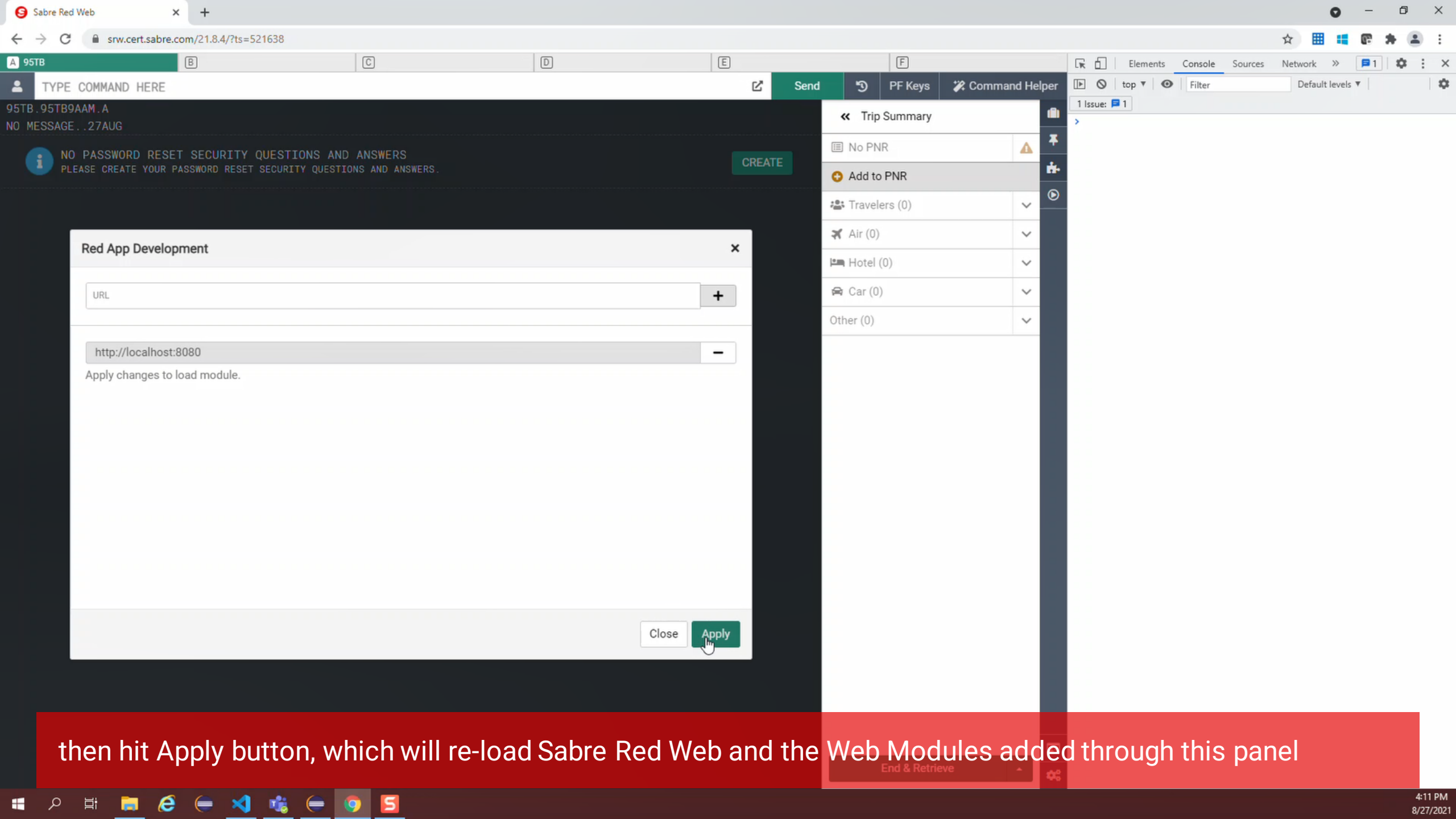

Sabre Red Web
srw.cert.sabre.com/21.8.4/?ts=521638
95TB
TYPE COMMAND HERE
Send
95TB.95TB9AAM.A
NO MESSAGE..27AUG
NO PASSWORD RESET SECURITY QUESTIONS AND ANSWERS
PLEASE CREATE YOUR PASSWORD RESET SECURITY QUESTIONS AND ANSWERS.
CREATE
New tab Ctrl+T
New window Ctrl+N
New Incognito window Ctrl+Shift+N
History
Downloads Ctrl+J
Bookmarks
Zoom 100%
Print... Ctrl+P
Cast...
Find... Ctrl+F
More tools
Edit Cut Copy Paste
Settings
Help
Exit
Managed by your organization
Save page as... Ctrl+S
Create shortcut...
Name window...
Clear browsing data... Ctrl+Shift+Del
Extensions
Task manager Shift+Esc
Developer tools Ctrl+Shift+I
We can turn on browser developer tools, so we have access to console and tools to debug your Web Module
End & Retrieve
4:10 PM
8/27/2021

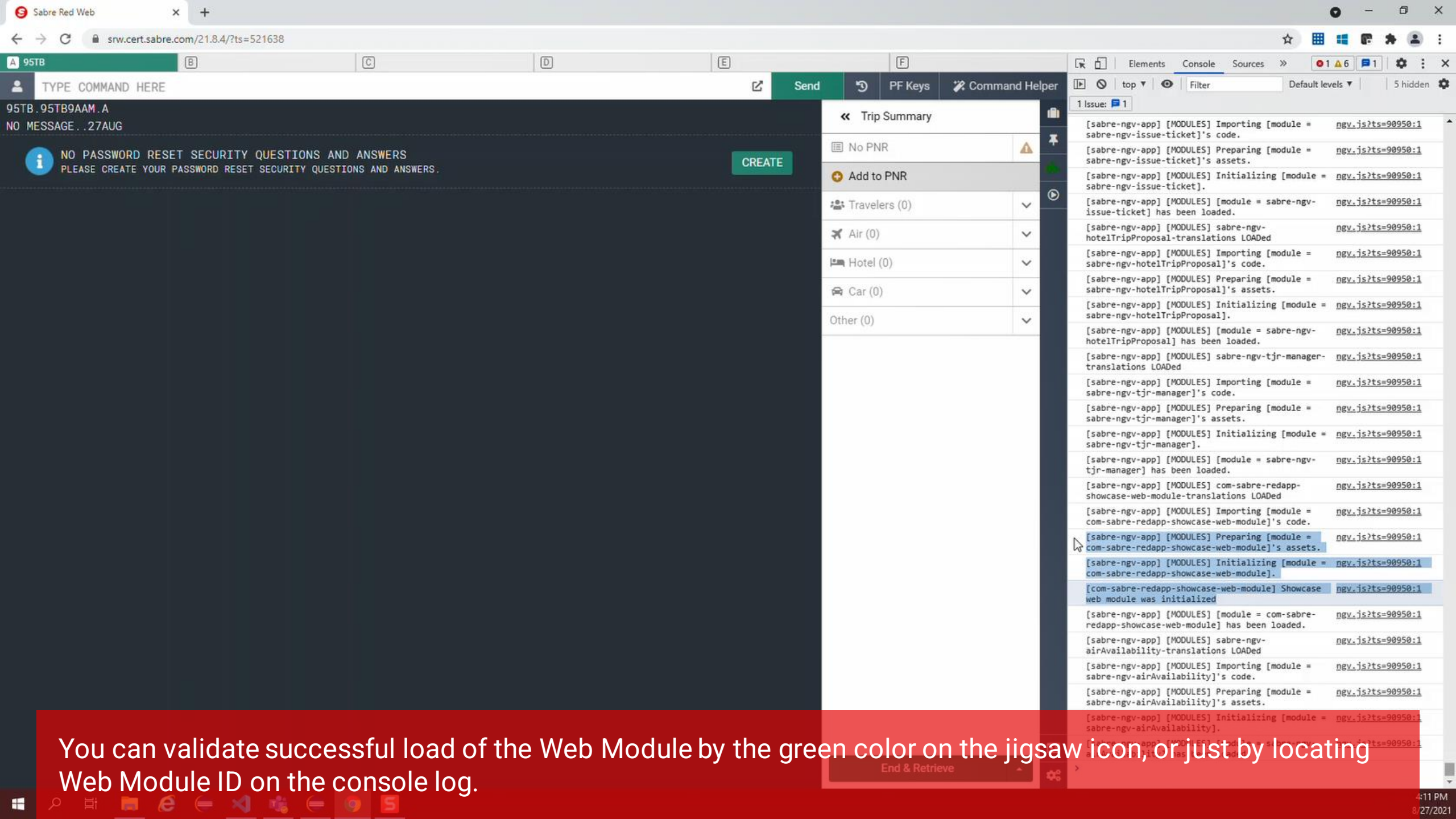


Now hit the jigsaw icon on the right sidebar or Sabre Red Web, this is the development mode tools that let you load Web Modules dynamically during runtime, if you don't see this button on your Sabre Red Web instance, please contact your Account Manager or Red App support team.



Once Red App Development pop-up is shown, enter the URL for the Web Module host (default is http://localhost:8080), and hit the + (Plus) button to the right side on the field


Sabre Red Web
srw.cert.sabre.com/21.8.4/?ts=521638
95TB
TYPE COMMAND HERE
Send
PF Keys
Command Helper
95TB.95TB9AAM.A
NO MESSAGE..27AUG
NO PASSWORD RESET SECURITY QUESTIONS AND ANSWERS
PLEASE CREATE YOUR PASSWORD RESET SECURITY QUESTIONS AND ANSWERS.
CREATE
Red App Development
URL
http://localhost:8080
Apply changes to load module.
Close
Apply
Trip Summary
No PNR
Add to PNR
Travelers (0)
Air (0)
Hotel (0)
Car (0)
Other (0)
End & Retrieve
Elements
Console
Sources
Network
top
Filter
Default levels
1 Issue: 1
then hit Apply button, which will re-load Sabre Red Web and the Web Modules added through this panel
4:11 PM
8/27/2021



You can validate successful load of the Web Module by the green color on the jigsaw icon, or just by locating Web Module ID on the console log.

Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project

Developers Resources & Downloads

Setup Development Environment

Build and Debug Red Apps

Bundle and Publishing procedures

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Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project

Bundle and Publishing procedures

Bundle

Red App tools added to Eclipse IDE allows Exporting Red App bundles with Wizard style interface.

Sabre Concierge Tool is used to create the Red App bundle, NGV EXPORT command would do the trick.

Red App bundles needs to be signed with Application Certificate issued to Red App provider (Developer)

Publishing

Upload Red App bundle and Documentation to Sabre Red App Centre

Perform beta test and certification process

Manage Red App Storefront

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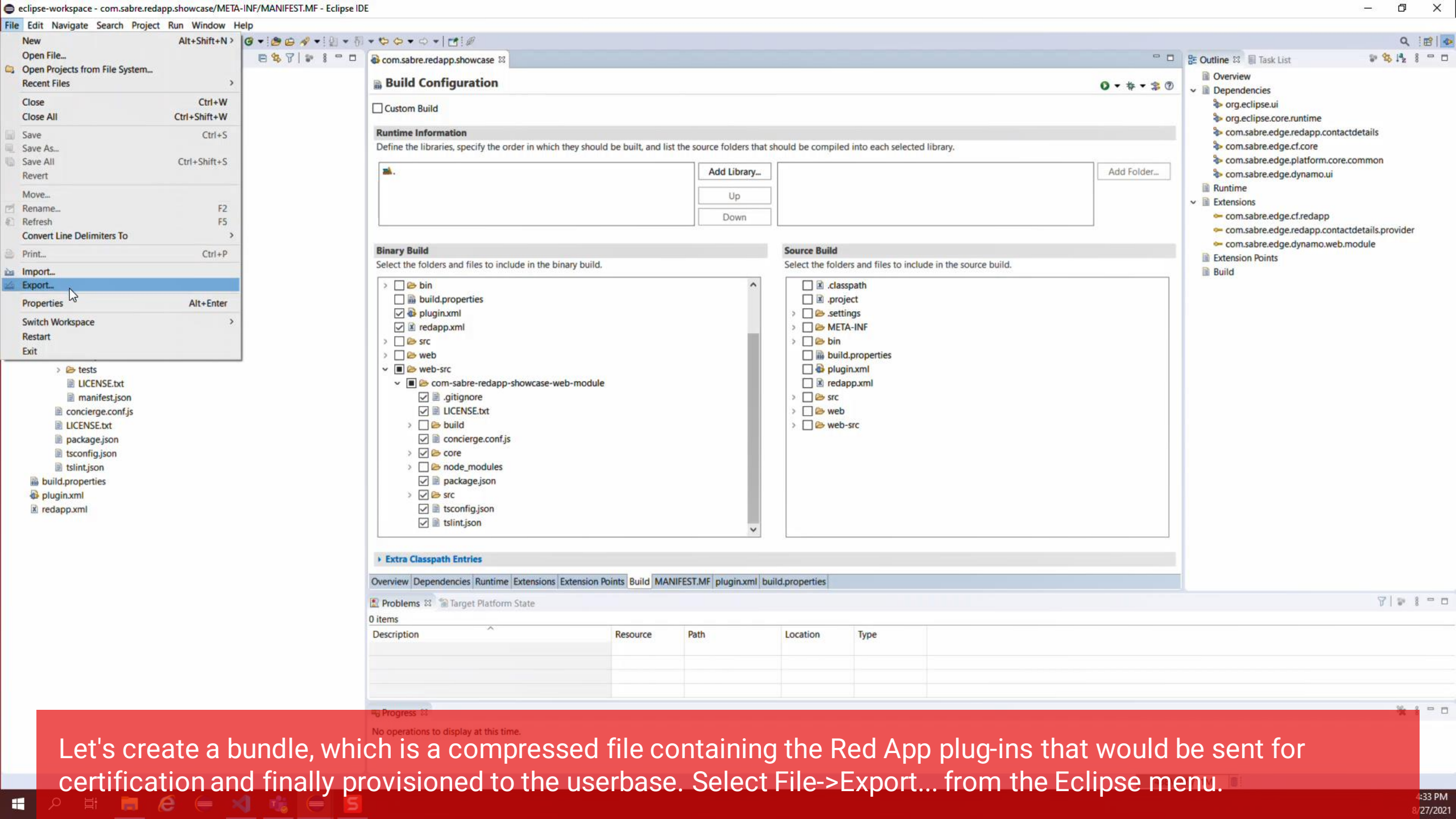
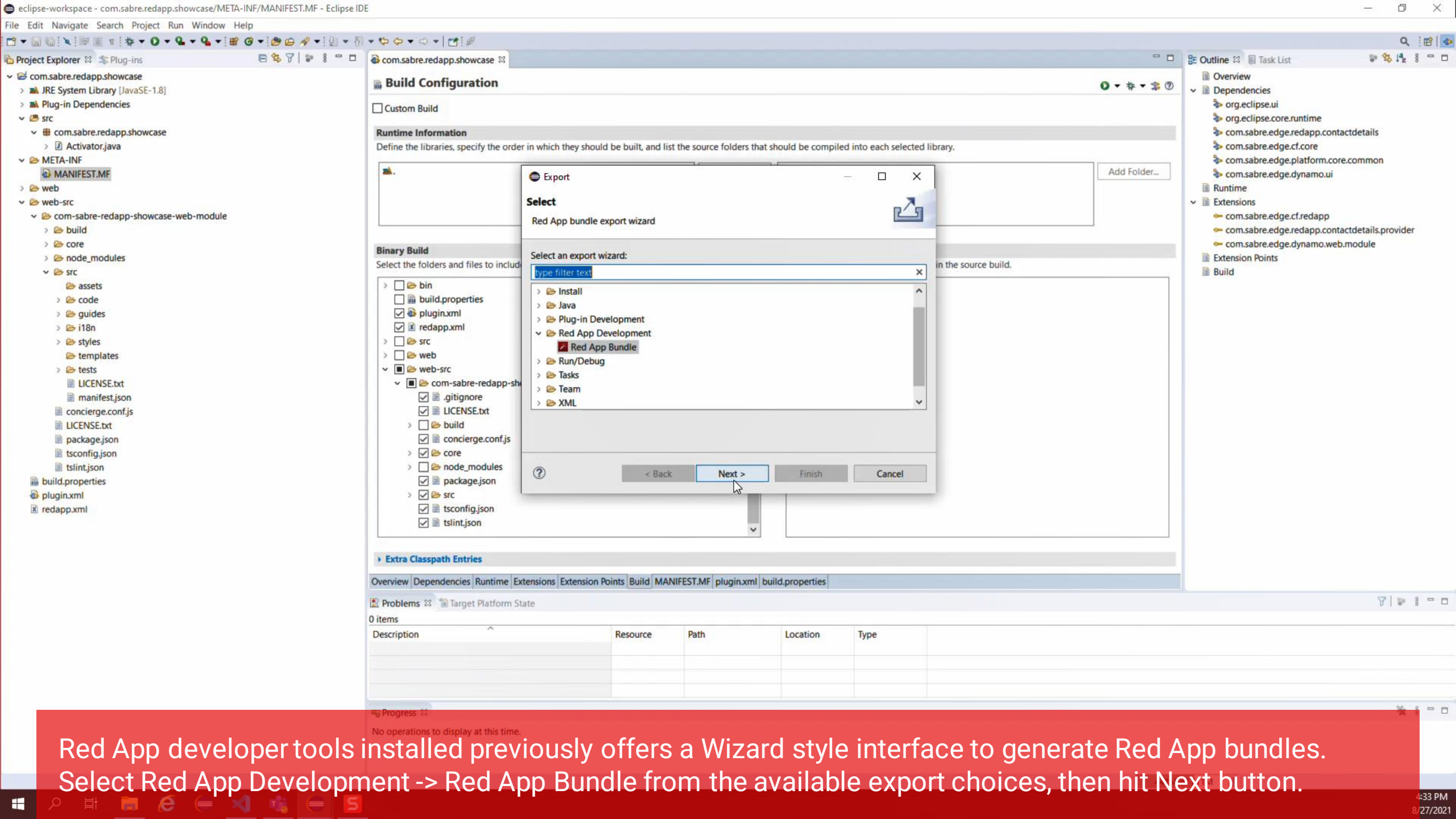
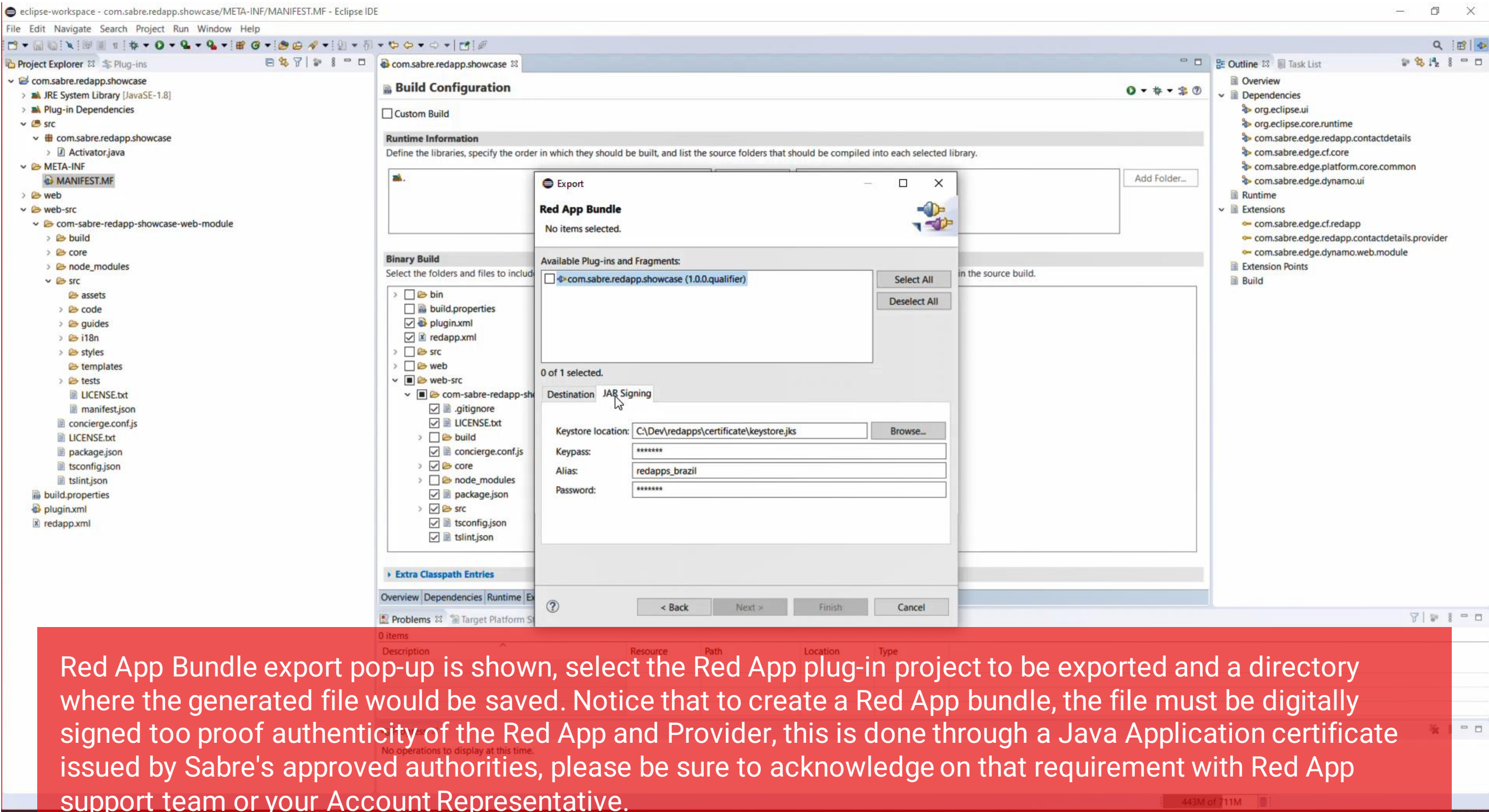
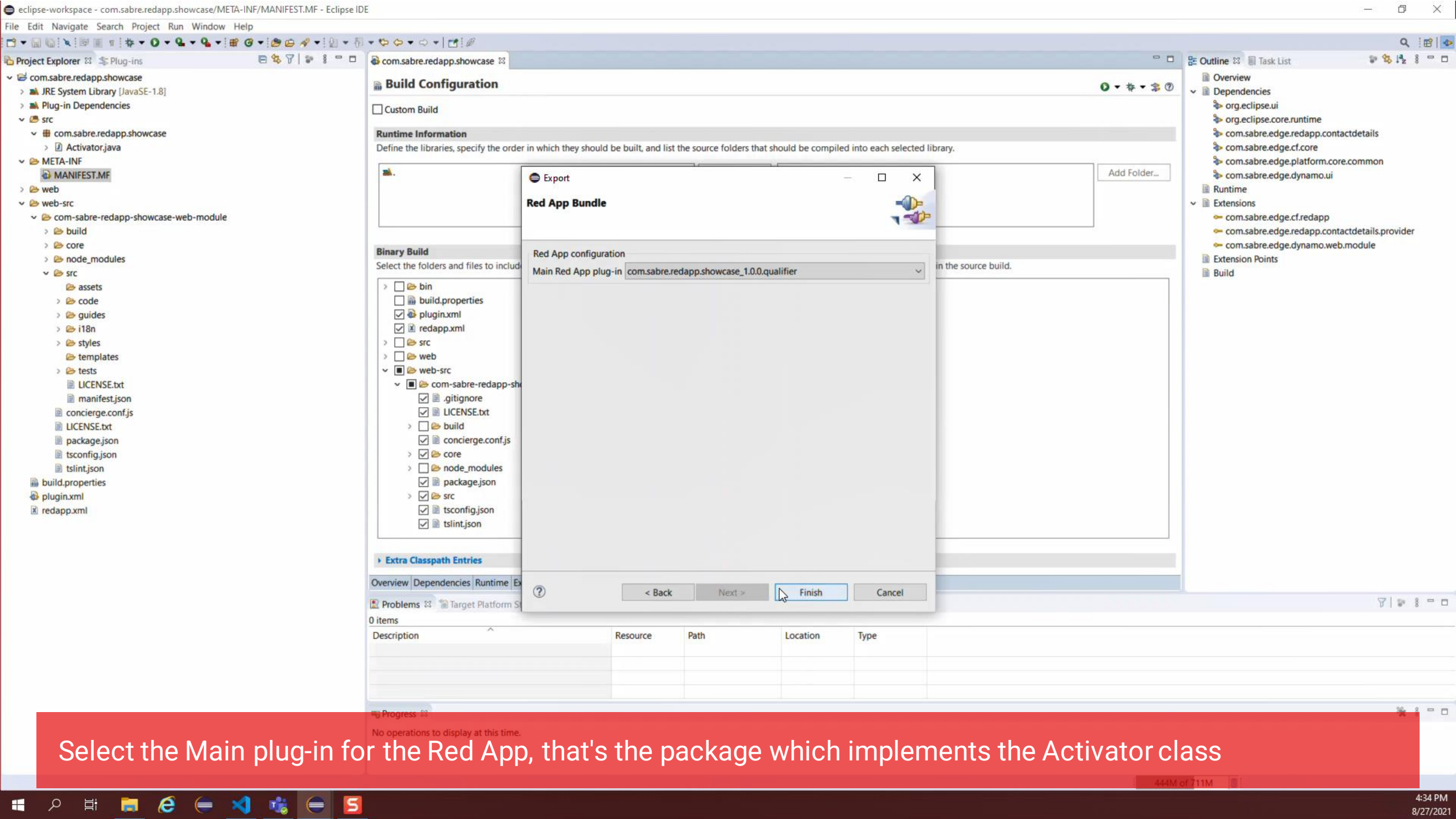

eclipse-workspace - com.sabre.redapp.showcase/META-INF/MANIFEST.MF - Eclipse IDE
File Edit Navigate Search Project Run Window Help
New Alt+Shift+N
Open File...
Open Projects from File System...
Recent Files
Close Ctrl+W
Close All Ctrl+Shift+W
Save Ctrl+S
Save As...
Save All Ctrl+Shift+S
Revert
Move...
Rename... F2
Refresh F5
Convert Line Delimiters To
Print... Ctrl+P
Import...
Export...
Properties Alt+Enter
Switch Workspace
Restart
Exit
com.sabre.redapp.showcase
Build Configuration
Custom Build
Runtime Information
Define the libraries, specify the order in which they should be built, and list the source folders that should be compiled into each selected library.
Add Library...
Up
Down
Add Folder...
Binary Build
Select the folders and files to include in the binary build.
Source Build
Select the folders and files to include in the source build.
Extra Classpath Entries
Overview Dependencies Runtime Extensions Extension Points Build MANIFEST.MF plugin.xml build.properties
Outline
Task List
Problems
Target Platform State
0 items
Description Resource Path Location Type
Progress
No operations to display at this time.
Let's create a bundle, which is a compressed file containing the Red App plug-ins that would be sent for certification and finally provisioned to the userbase. Select File->Export... from the Eclipse menu.

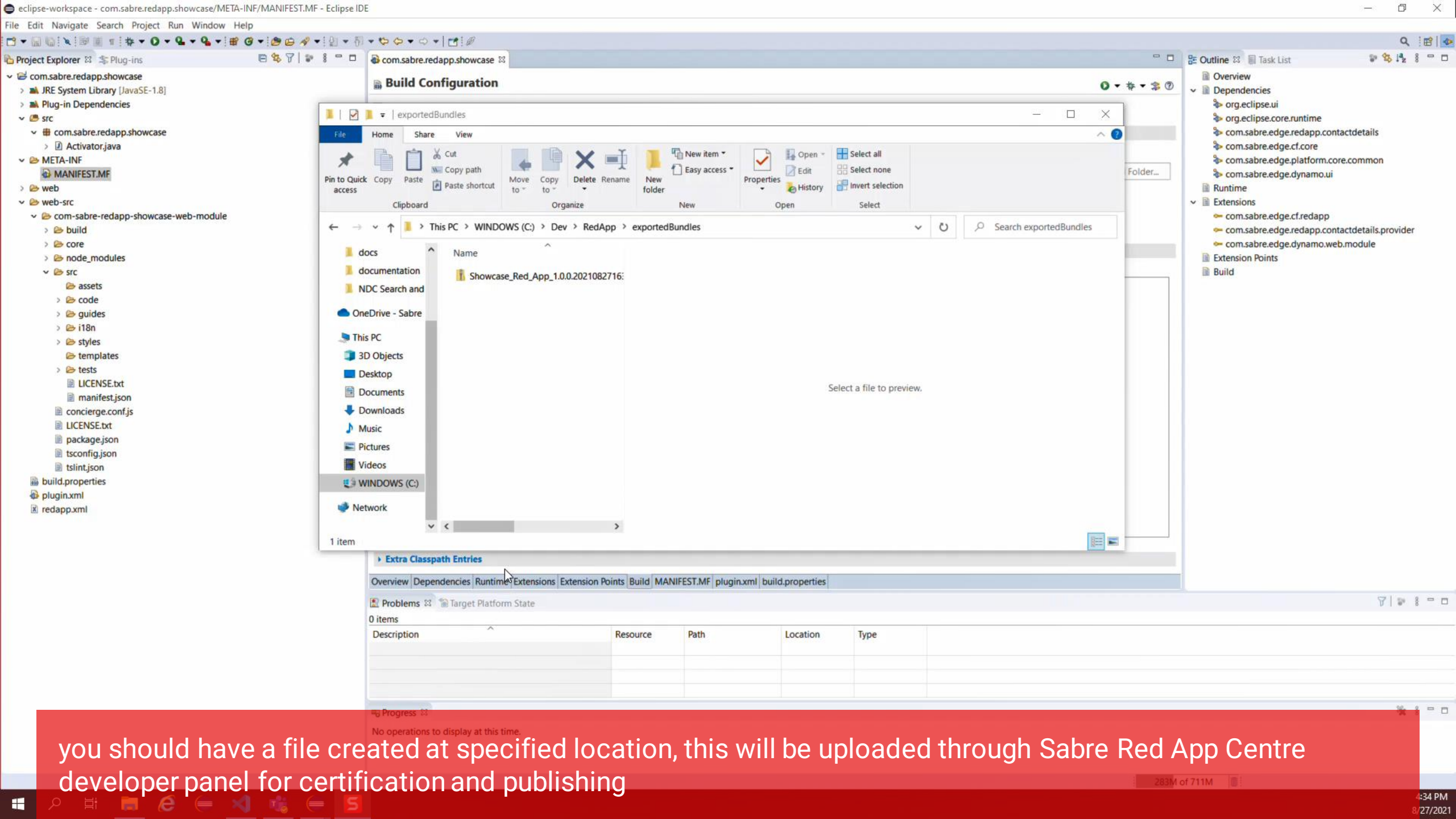


Red App developer tools installed previously offers a Wizard style interface to generate Red App bundles.
Select Red App Development -> Red App Bundle from the available export choices, then hit Next button.



Red App Bundle export pop-up is shown, select the Red App plug-in project to be exported and a directory where the generated file would be saved. Notice that to create a Red App bundle, the file must be digitally signed too proof authenticity of the Red App and Provider, this is done through a Java Application certificate issued by Sabre's approved authorities, please be sure to acknowledge on that requirement with Red App support team or your Account Representative.


eclipse-workspace - com.sabre.redapp.showcase/META-INF/MANIFEST.MF - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
com.sabre.redapp.showcase
JRE System Library [JavaSE-1.8]
Plug-in Dependencies
src
com.sabre.redapp.showcase
Activator.java
META-INF
MANIFEST.MF
web
web-src
com-sabre-redapp-showcase-web-module
build
core
node_modules
src
assets
code
guides
i18n
styles
templates
tests
LICENSE.txt
manifest.json
concierge.conf.js
LICENSE.txt
package.json
tsconfig.json
tslint.json
build.properties
plugin.xml
redapp.xml
Build Configuration
Custom Build
Runtime Information
Define the libraries, specify the order in which they should be built, and list the source folders that should be compiled into each selected library.
Add Folder...
Binary Build
Extra Classpath Entries
Overview
Dependencies
Runtime
Export
Red App Bundle
Red App configuration
Main Red App plug-in
com.sabre.redapp.showcase_1.0.0.qualifier
< Back
Next >
Finish
Cancel
Outline
Task List
Overview
Dependencies
org.eclipse.ui
org.eclipse.core.runtime
com.sabre.edge.redapp.contactdetails
com.sabre.edge.cf.core
com.sabre.edge.platform.core.common
com.sabre.edge.dynamo.ui
Runtime
Extensions
com.sabre.edge.cf.redapp
com.sabre.edge.redapp.contactdetails.provider
com.sabre.edge.dynamo.web.module
Extension Points
Build
Problems
0 items
Description
Resource
Path
Location
Type
Progress
No operations to display at this time.
Select the Main plug-in for the Red App, that's the package which implements the Activator class
4:34 PM
8/27/2021



you should have a file created at specified location, this will be uploaded through Sabre Red App Centre developer panel for certification and publishing

Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project

Bundle and Publishing procedures

Bundle

Red App tools added to Eclipse IDE allows Exporting Red App bundles with Wizard style interface.

Sabre Concierge Tool is used to create the Red App bundle, NGV EXPORT command would do the trick.

Red App bundles needs to be signed with Application Certificate issued to Red App provider (Developer)

Publishing

Upload Red App bundle and Documentation to Sabre Red App Centre

Perform beta test and certification process

Manage Red App Storefront

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Sabre Red App Centre

https://www.sabreredappcentre.sabre.com

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WELCOME TO OUR MARKETPLACE
Learn how you can customize your Workspace with Red Apps

COME INNOVATE WITH US
Become a Red App Certified Provider

Featured

Low Fare Calendar
Travel Activities
Low Fare Calendar Red App allows users of Sabre Red 360 to quickly view the lowest round-trip fares for the desired length of stay for each departure date during the next six
5 Paid

Quick Look
Travel Activities
Quick Look is a new Sabre Red App that allows Sabre agents to search for commands and error references within their workflow. The application is available for Sabre Red
0 Free

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Travel Activities
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0 Free

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Travel Activities
Quick Look is a new Sabre Red App that allows Sabre agents to search for commands and error references within their workflow. The application is available for Sabre Red
0 Free

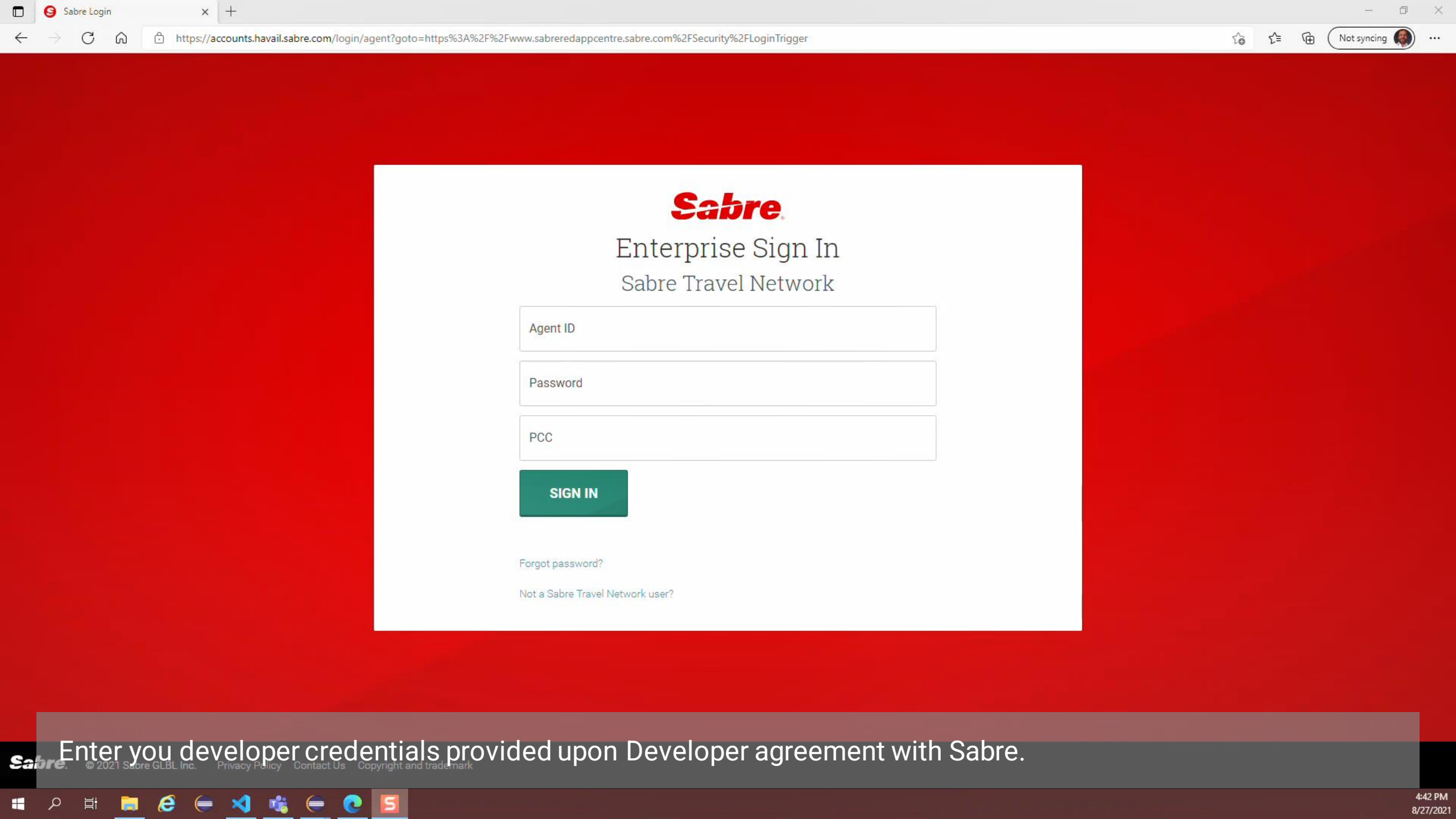
Feedback

Open a Web Browser and navigate to https://www.sabreredappcentre.sabre.com

Categories | Top Paid | Top Free

https://www.sabreredappcentre.sabre.com/apps/Quick-Look

4:41 PM
8/27/2021


Sabre Login
https://accounts.havail.sabre.com/login/agent?goto=https%3A%2F%2Fwww.sabreredappcentre.sabre.com%2FSecurity%2FLoginTrigger
Not syncing
Sabre
Enterprise Sign In
Sabre Travel Network
Agent ID
Password
PCC
SIGN IN
Forgot password?
Not a Sabre Travel Network user?
Enter you developer credentials provided upon Developer agreement with Sabre.
Sabre
© 2021 Sabre GLBL Inc.
Privacy Policy
Contact Us
Copyright and trademark
4:42 PM
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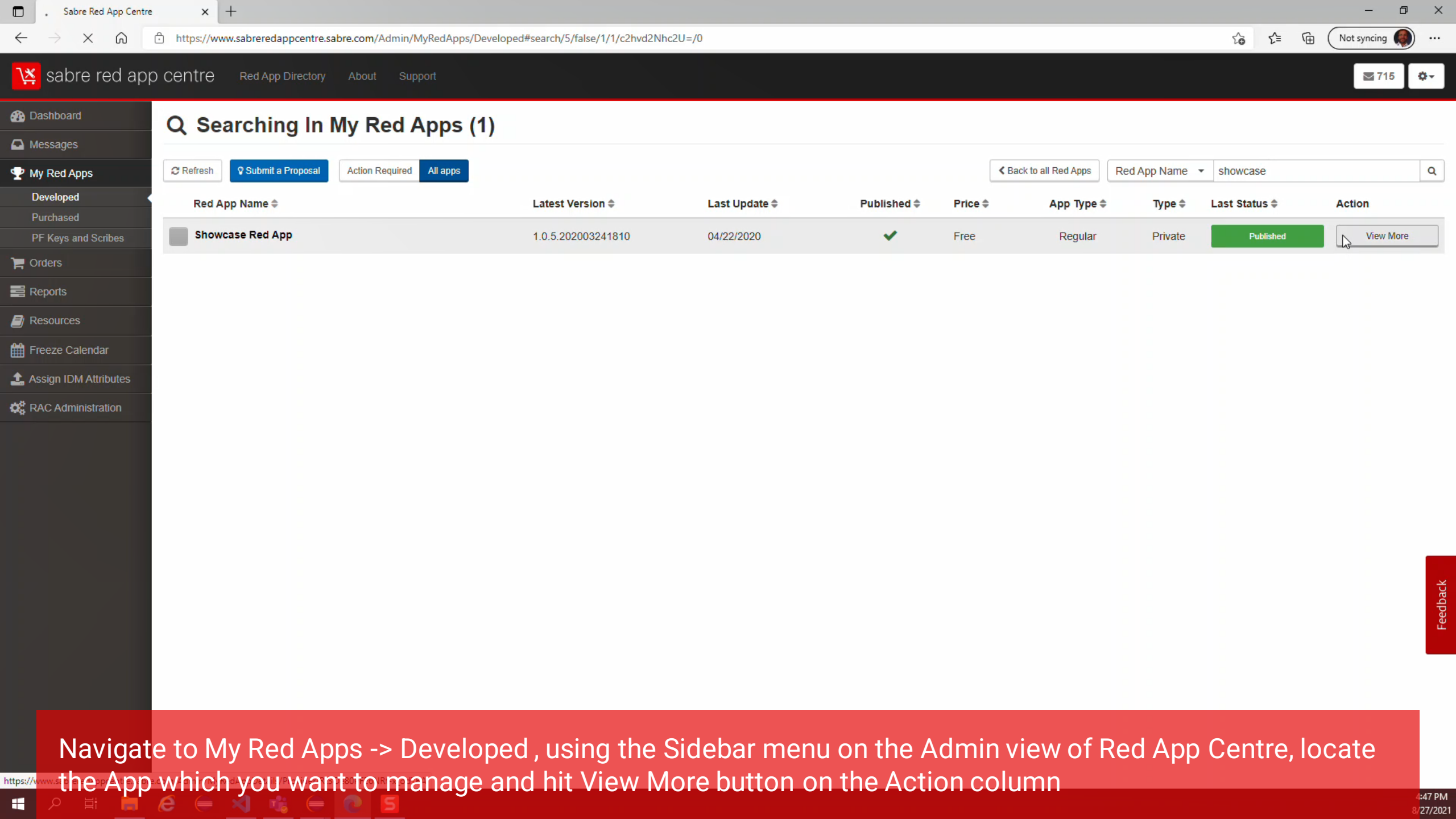
Sabre Red App Centre
https://www.sabreredappcentre.sabre.com/Admin/MyRedApps/Developed#search/5/false/1/1/c2hvd2Nhc2U=/0
Not syncing
sabre red app centre
Red App Directory
About
Support
715
Dashboard
Messages
My Red Apps
Developed
Purchased
PF Keys and Scribes
Orders
Reports
Resources
Freeze Calendar
Assign IDM Attributes
RAC Administration
Searching In My Red Apps (1)
Refresh
Submit a Proposal
Action Required
All apps
Back to all Red Apps
Red App Name
showcase
Red App Name
Latest Version
Last Update
Published
Price
App Type
Type
Last Status
Action
Showcase Red App
1.0.5.202003241810
04/22/2020
Free
Regular
Private
Published
View More
Feedback
Navigate to My Red Apps -> Developed , using the Sidebar menu on the Admin view of Red App Centre, locate the App which you want to manage and hit View More button on the Action column

Sabre Red App Centre

https://www.sabreredappcentre.sabre.com/Admin/MyRedAppDetails/Provider/Rt3Oe80PFE6NRt-x_odTBA

Not syncing

sabre red app centre | Red App Directory | About | Support | 715

- Dashboard
- Messages
- My Red Apps
  - Developed
  - Purchased
  - PF Keys and Scribes
- Orders
- Reports
- Resources
- Freeze Calendar
- Assign IDM Attributes
- RAC Administration

Showcase Red App

Sabre Travel Network

Red App Information | Reports | Other | Cleanup

Red App ID: [redacted]

Proposal Status: Proposal Approved

Proposal Date: 03/23/2020

Main Plugin Id: com.sabre.tn.redapp.example.showcase

Edit your Storefront

Edit the storefront of your published Red App.

Edit

Submit a New Bundle

Click here to upload a new Red App bundle.

Submit

Submitted Bundles

Version	Submit Date	Last Update	Status	Admin Edit
1.0.5.202003241810	03/24/2020	04/22/2020	Published	Edit

Feedback

Here you can see your Red App details, manage front page and get usage reports, also publish bundles and submit certification assessments when required. On that case we are submitting new bundle (or patch, given we already have a previous version published. Hit Submit button undr Submit new Bundle section.

4:48 PM
8/27/2021

Sabre Red App Centre

https://www.sabreredappcentre.sabre.com/Admin/SubmitAnApplication/Submit/Rt3Oe80PFE6NRt-x_odTBA

Not syncing

sabre red app centre | Red App Directory | About | Support | 715

- Dashboard
- Messages
- My Red Apps
  - Developed
  - Purchased
  - PF Keys and Scribes
- Orders
- Reports
- Resources
- Freeze Calendar
- Assign IDM Attributes
- RAC Administration

Submit Bundle for Showcase Red App

Initial Red App Description

Red App which demonstrate the main capabilities and integration points offered by the Red App SDK, mainly for enabling customer conversations and a Demo tool.

Text will be used in the Agency Admin Tool only. Description in other languages can be provided at a later stage.

Upload Your Red App Bundle

If you upload a subsequent version of an existing red app, be aware of the importance of the version number. The Version number format is: major.minor.service.qualifier.
If you increment the service or qualifier number, it is a patch. Users of the prior version will receive this new patch automatically after it is processed successfully.
If you increment the major or minor number, it is an upgrade. For a new Red App or an upgrade to an existing Red App, you must submit a proposal to obtain a new red app ID.

Choose the Red App bundle you want to upload.

Browse ...

You can upload a .zip file of 30 MB or less.

Upload Red App Certification Details

Upload a file that contains detailed use cases for all the functionality in your Red App.

Use Cases Sample

Browse ...

You can upload a .doc, .docx, or .pdf file of 10 MB or less.

Patch Release Notes

Describe the changes in new version

Please note it may take a few minutes to upload the files.

Feedback

Then just select the bundle file exported previously and a doc or pdf file containing detailed instructions on how to test the Red App according to use case. It may require other documents depending on the Red App features, as for PCI / PII and Security compliance if needed.

4:48 PM
8/27/2021

Sabre Red App Centre

https://www.sabreredappcentre.sabre.com/Admin/SubmitAnApplication/Submitted

Not syncing

sabre red app centre | Red App Directory | About | Support | 715

- Dashboard
- Messages
- My Red Apps
  - Developed
  - Purchased
  - PF Keys and Scribes
- Orders
- Reports
- Resources
- Freeze Calendar
- Assign IDM Attributes
- RAC Administration

Thank you for submitting your Red App!

You can follow Red App certification process in Admin Centre/My Red Apps section

Back to My Red Apps

Feedback

once successfully submitted your bundle will be automatically validated and sent through Certification process

https://www.sabreredappcentre.sabre.com/Admin/MyRedApps/Developed

4:48 PM
8/27/2021

Sabre Red App Centre

https://www.sabreredappcentre.sabre.com/Admin/CertifyRedApp/Recently-Viewed-PNRs/1-0-7-202107130945

Not syncing

sabre red app centre | Red App Directory | About | Support | 721

- Dashboard
- Messages
- My Red Apps
  - Developed
  - Purchased
  - PF Keys and Scribes
- Orders
- Reports
- Resources
- Freeze Calendar
- Assign IDM Attributes
- RAC Administration

Showcase Red App

Sabre Travel Network

Certify Your Red App | General Info | Language Info | Review | Version Details | Certification Details | Back to Red App

Certify Your Red App

Submission of Red App — Testing on CERT — Certification — Testing on PROD — Publishing

Ready on PROD

Your app was successfully provisioned to Production environment. Now, please test your app with Beta tester(s). After testing the Red App on PROD, the Certified Provider will mark the Red App as either “Pass” or “Fail.” You will not be able to proceed with the Certification process or upload a new bundle until you have marked your Red App as either “Pass” or “Fail.” If the Red App is marked as “Pass” it will be automaticaly published. Please verify that your storefront is complete. If the Red App is marked as “Fail” it will be removed from the PROD environment.

Post Prod Result

Feedback

Certification is a multi-stage process involving developer, Sabre engineers and optionally beta customers which ensure the quality over the published Red Apps, once all approved it is finally available for purchases and provisioning at Travel consultant's workspace

Sabre®