

Running FactoryStudio in RedHat 8

Introduction

This document shows how to deploy Projects in Linux Red Hat 8 through code lines. However, you need a PC as a client for doing the deployment in Red Hat 8 and make all necessary settings, after it, your Linux Server will keep running.

Settings procedure

1 - We did this test using VMware Workstation 17 Player as the virtual machine, and we used RedHat Enterprise Linux 8.7 64-bit as the operational system.

2 - It was necessary to register and subscribe a RHEL system to the Red Hat Customer Portal using Red Hat Subscription-Manager using this command in prompt

Before that, get root permissions writing this in command line.

```
su //after clicking enter, it will ask for your RHEL password
```

```
subscription-manager register --username <username> --password <password> --auto-attach
```

You can find more information about it in the following link

<https://access.redhat.com/solutions/253273>

3 - Now we are going to download mono to make possible to run .NET Framework applications

First command to download Red Hat 8 is to update the system repository:

```
sudo dnf update
```

Second is to download the Mono package:

```
sudo dnf config-manager --add-repo https://download.mono-project.com/repo/centos8-stable.repo //This line code  
maybe will be necessary  
sudo dnf install mono-complete
```

After waiting to install all the package, write this command line to be sure that mono was installed correctly

```
mono --version
```

4 - On computer: Transfer folder "ProjectServer" localized in C:\Program Files (x86)\IoT\ProjectServer .. and transfer to /home/username/ in Server Ubuntu. You can use any kind of file transfer, we generate a link from our driver, and access it in RHEL through Firefox browser.

5 - Deactivate Firewall in RHEL

```
systemctl stop firewalld
```

6 - Run the TServer using this command line, after this you Port will be open to receive TServer.

```
mono /home/user/Documents/ProjectServer/ProjectServer.exe //The path depends where you put the folder, this is  
just an example
```

7 - Now you need to create a Linux project on your computer, for this, follow the steps

Open 'Welcome' in FactoryStudio ->
Create new project with - Product Family: **EdgeGateway**;
Target Framework: **Linux/Mono**

In Welcome -> Server tab -> Remote -> Server Ip -> Connect button -> Update button -> Upload Project, you can choose the project created before

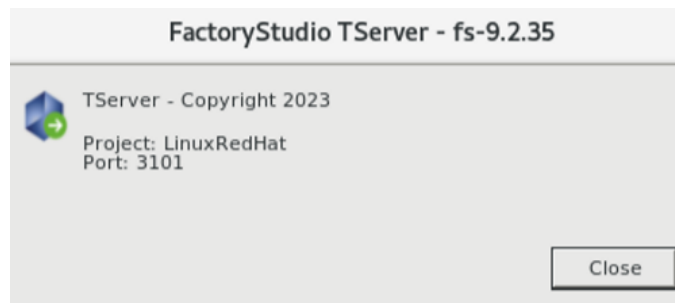
License tab -> Load license key

Projects -> Refresh -> Open project

Run -> Startup -> Run Startup button

8 - Now you can see in RHEL that your TServer is running, it should be like this:

```
TServer: Loading project...  
TServer: Starting runtime modules...  
TServer: Starting TCPServer module...  
TServer: Starting ServerStation module...  
TServer: Starting TagProvider module ...  
TServer: Starting Device module...  
TServer: Starting Script module...  
TServer: Project: LinuxRedHat, Port: 3101
```



If you are getting some error, please be sure that you are running in root level, just execute this command line:

```
su //after clicking enter, it will ask for your RHEL password
```