DevOps Certification Training

Jenkins Installation Guide

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Jenkins Installation on Windows :

The simplest way to install Jenkins on Windows is to use the Jenkins Windows installer. That program will install Jenkins as a service using a 64 bit JVM chosen by the user. Keep in mind that to run Jenkins as a service, the account that runs Jenkins must have permission to login as a service.

Recommended hardware configuration for a small team:

- 4 GB+ of RAM
- 50 GB+ of drive space

Step 1 : Download the Jenkins Stable release from the following link.
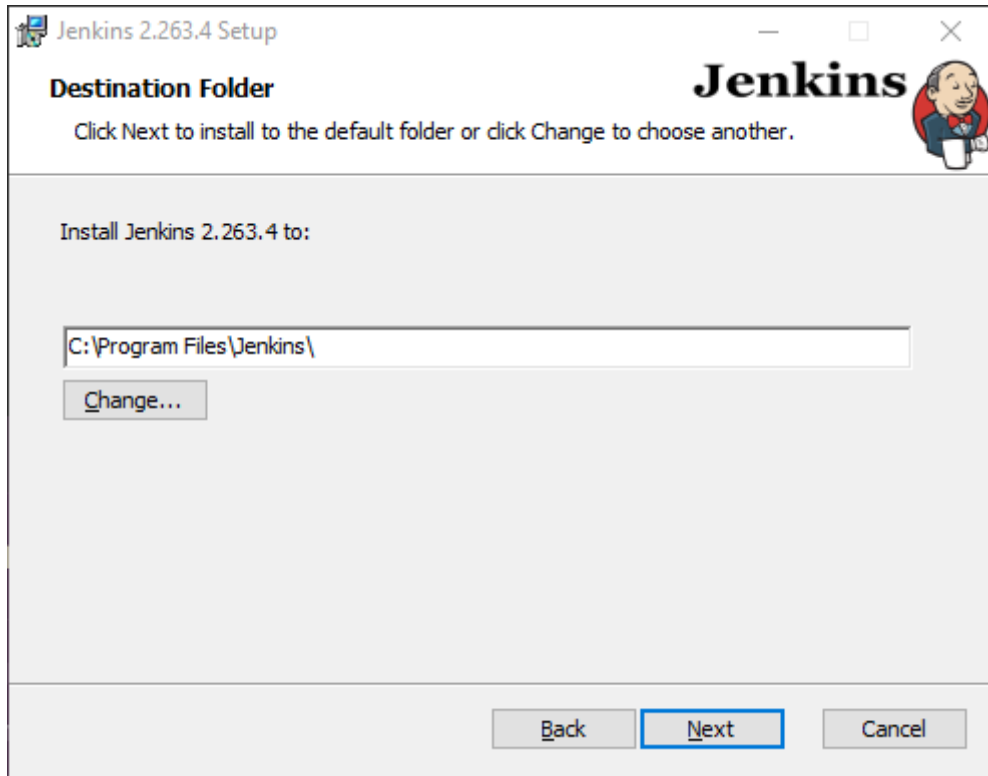
Jenkins Download :> https://www.jenkins.io/download/#downloading-jenkins

Step 2 : Go to the location where installer is downloaded and start the installer.

Step 3 : Upon start, an Installation Setup Wizard appears.

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Step 4 : Select the destination folder to store your Jenkins Installation and click **Next** to continue.

Step 5 : When Installing Jenkins, it is recommended to install and run Jenkins as an independent windows service using a **local or domain user** as it is much safer than running Jenkins using **LocalSystem(Windows equivalent of root)** which will grant Jenkins full access to your machine and services.

To run Jenkins service using a **local or domain user**, specify the domain user name and password with which you want to run Jenkins, click on **Test Credentials** to test your domain credentials and click on **Next**.

Jenkins 2.263.4 Setup

Service Logon Credentials

Enter service credentials for the service.

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Jenkins 2.263.4 installs and runs as an independent Windows service. To operate in this manner, you must supply the user account credentials for Jenkins 2.263.4 to run successfully.

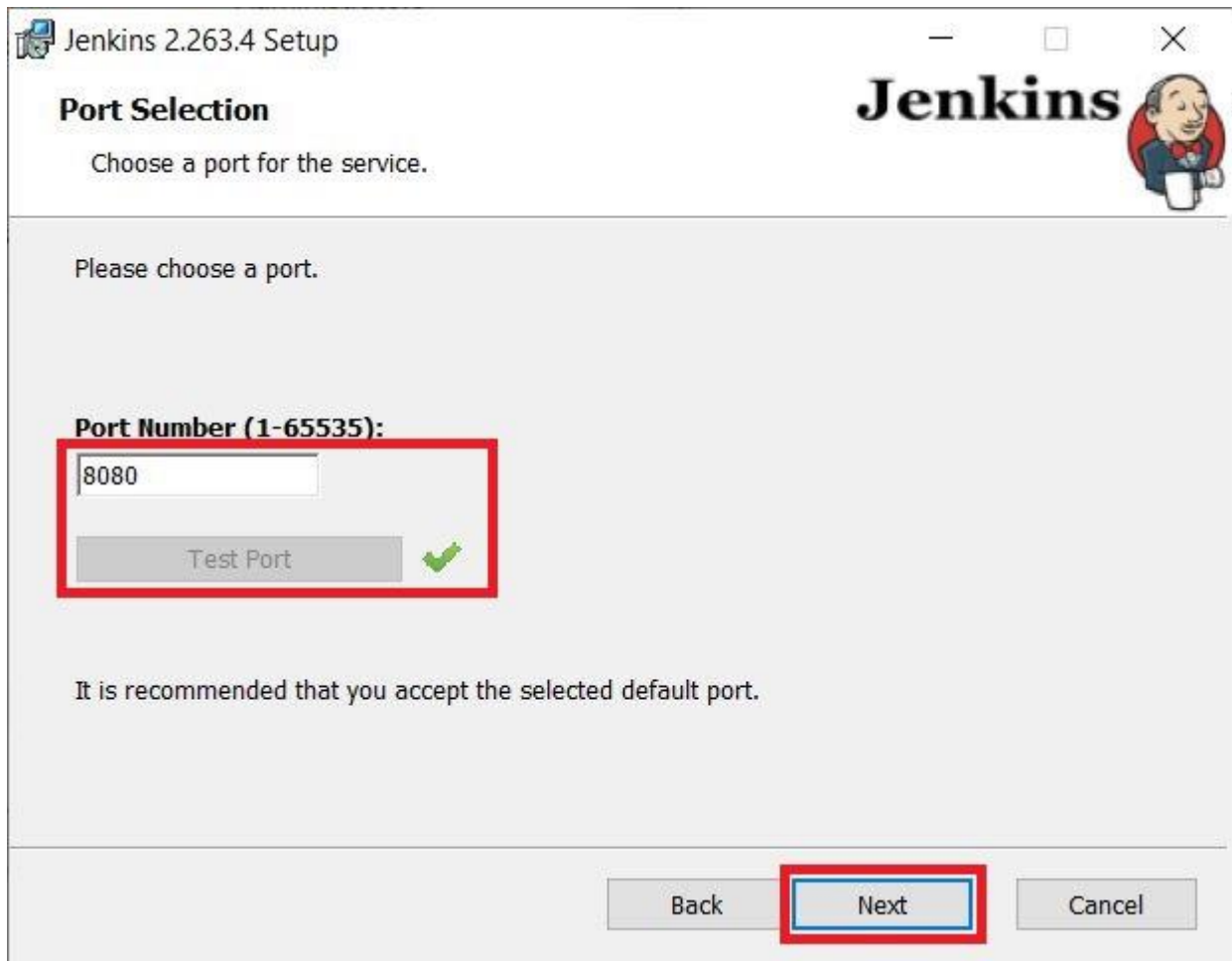**Logon Type:**

◯ Run service as LocalSystem (not recommended)

◉ Run service as local or domain user:

Account: user

Password: ●●●●●●●●●●

Test Credentials ⚠ Credentials must be tested to continue

Back   Next   Cancel

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Step 6 : Specify the port on which Jenkins will be running, **Test Port** button to validate whether the specified port if free on your machine or not. Consequently, if the port is free, it will show a green tick mark as shown below, then click on **Next**.


Step 7 : The installation process checks for Java on your machine and prefills the dialog with the Java home directory. If the needed Java version is not installed on your machine, you will be prompted to install it.

Once your Java home directory has been selected, click on **Next** to continue until Installation screen.

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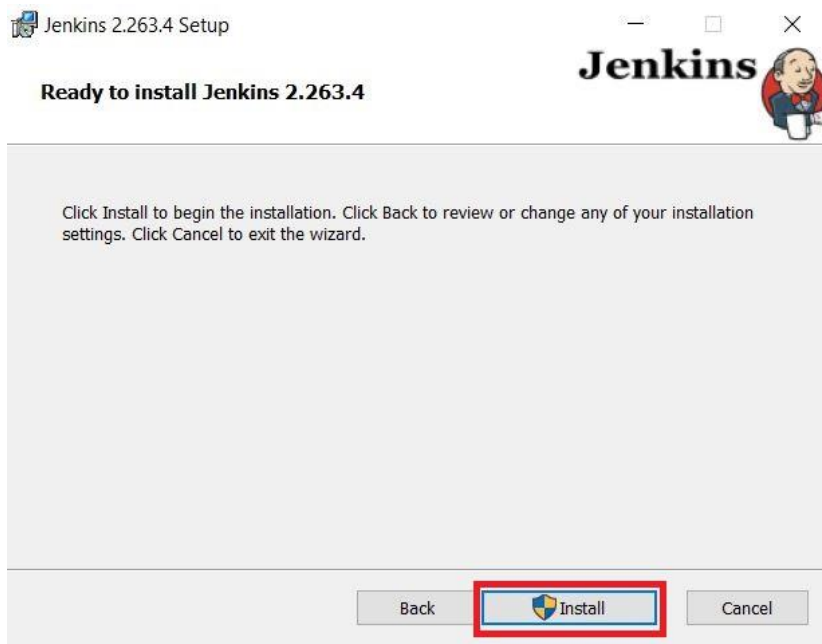
Step 8 : Once the installation completes, click on **Finish** to complete the installation.

Jenkins will be installed as a **Windows Service**. You can validate this by browsing the **services** section, as shown below:

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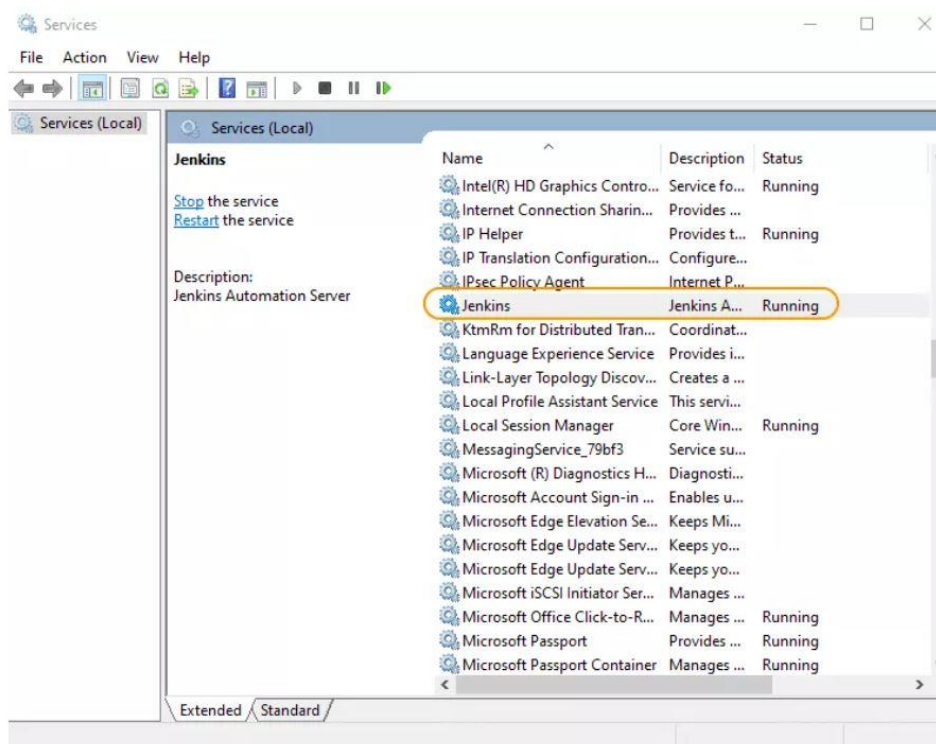
Instructions for Post Installation Setup Wizard :
Step 1 : When you first access a new Jenkins instance, you are asked to unlock it using an automatically-generated password.

Browse to `http://localhost:8080` (or whichever port you configured for Jenkins when installing it) and wait until the **Unlock Jenkins** page appears.
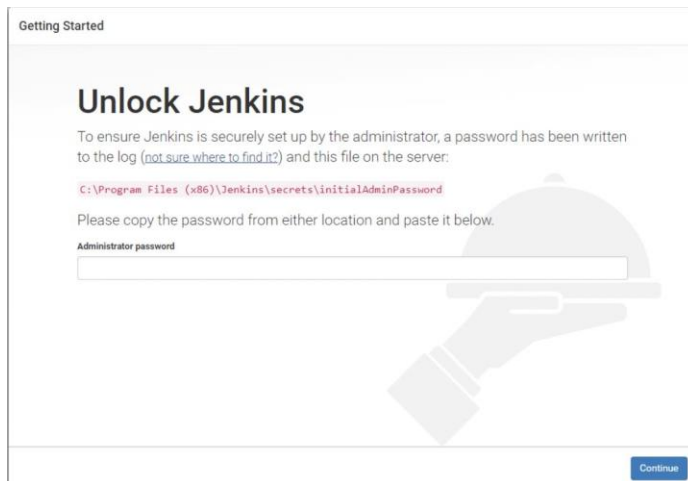
Step 2 : The initial Administrator password should be found under the Jenkins installation path (set at Step 2 in Jenkins Installation).

For default installation location to C:\Program Files\Jenkins, a file called **initialAdminPassword** can be found under C:\Program Files\Jenkins\secrets.

However, If a custom path for Jenkins installation was selected, then you should check that location for **initialAdminPassword** file.

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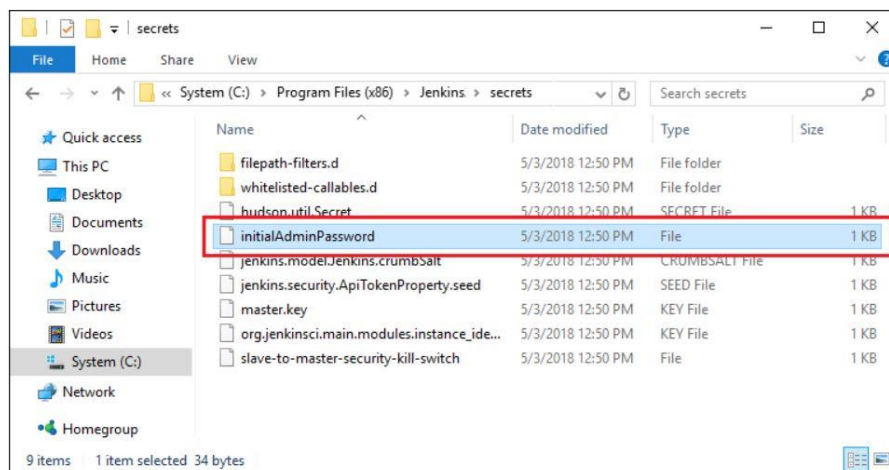
Step 3 : Open the highlighted file and copy the content of the **initialAdminPassword** file.

Step 4 : On the **Unlock Jenkins** page, paste this password into the **Administrator password** field and click **Continue**.

Step 5 : After unlocking Jenkins, the **Customize Jenkins** page appears. Here you can install any number of useful plugins as part of your initial setup. If you are not sure what plugins you need, choose **Install suggested plugins**.

Step 6: Finally, after customizing Jenkins with plugins, Jenkins asks you to create your first administrator user. Create an admin user by providing details. Use these details to login to the Jenkins environment next time onwards.

Jenkins Installation on Ubuntu :

In order to install Jenkins on an AWS ubuntu EC2 instance, please execute the below commands.

- curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo tee \
  /usr/share/keyrings/jenkins-keyring.asc > /dev/null

- echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \
  https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
  /etc/apt/sources.list.d/jenkins.list > /dev/null

- sudo apt update

- sudo apt install jenkins