

HOW TO INSTALL JFROG ARTIFACTORY ON UBUNTU 22.04

What is JFrog Artifactory?

Artifactory is a universal DevOps solution for hosting, managing, and distributing binaries and artifacts. Any type of software in binary form – such as application installers, container images, libraries, configuration files, etc. – can be curated, secured, stored, and delivered using Artifactory.

The name "Artifactory" reflects the fact that it can host any type of "artifact" needed in your software development "factory." In software development, an artifact is any object produced during the software development and delivery process. Artifacts include the files used to install and run applications, as well as any complementary information necessary to configure or manage software.

Artifactory serves as the central hub for your DevOps processes. All artifacts, dependencies, packages, etc. ultimately get put into and pulled from Artifactory.

INSTALLATION

To launch an **Ubuntu instance** with a t2.medium instance type on AWS, follow these condensed steps:

- 1. **Login to AWS Management Console** and navigate to the **EC2 Dashboard**.
- 2. Click **"Launch Instance"**, then select an **Ubuntu Server AMI** from the list.



- 3. Choose **"t2.medium"** as the instance type and click "Next: Configure Instance Details".
- 4. Configure instance details as needed, then click through **"Add Storage"**, **"Add Tags"**, and **"Configure Security Group"** with your desired settings or defaults.
- 5. Review your settings and click **"Launch"** to create your Ubuntu instance.

INSTALL JAVA

Connect to Your server using Mobaxterm or Terminal

sudo apt-get update

```
ubuntu@ip-172-31-32-68:~$ sudo apt update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1608 kB]
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [303 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1826 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [310 kB]
Get:8 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:9 http://security.ubuntu.com/ubuntu jammy—security/main amd64 Packages [1388 kB]
Get:10 http://security.ubuntu.com/ubuntu jammy—security/main Translation—en [243 kB]
Get:11 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1762 kB]
Get:12 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [299 kB]
Fetched 7967 kB in 5s (1619 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
52 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-32-68:~$
```

Install java on the server

```
sudo apt install fontconfig openjdk-17-jre -y
```

```
java --version
```



Fetch and add the JFrog public GPG key

```
wget -q0 - https://releases.jfrog.io/artifactory/api/gpg/key/public | sudo
apt-key add -
```

NOTE 👍

```
If you not see OK after running This command, That means Jfrog Changed key so
Don't say this guide as waste
```

```
ubuntu@ip-172-31-32-68:~$
ubuntu@ip-172-31-32-68:~$ wget -q0 - https://releases.jfrog.io/artifactory/api/gpg/key/public | sudo apt-key add -
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).
OK
ubuntu@ip-172-31-32-68:~$
```

Determine your distribution

```
DISTRO=$(lsb_release -cs)
```

Add JFrog Artifactory repository to sources.list

```
echo "deb https://releases.jfrog.io/artifactory/artifactory-debs ${DISTRO}
main" | sudo tee -a /etc/apt/sources.list
```



Update package lists

sudo apt-get update

```
aboutubje-172-11-22-61-5 |
aboutubje-172-11-21-22-61-5 |
aboutubje-172-11-22-61-5 |
aboutubje-172-11-22-61-5 |
aboutubje-172-11-22-61-5 |
aboutubje-172-11-22-61-5 |
aboutubje-172-11-22-61-5 |
aboutubje-172-11-22-61-5 |
aboutubje-172-11-2
```

Install JFrog Artifactory C++ CE

sudo apt-get install jfrog-artifactory-cpp-ce

```
whentedp=172-31-32-48:-3
whentedp=172-31-32-48
```



Clear Explination of above Script/ Complete script

```
#!/bin/bash
sudo apt update

# Fetch and add the JFrog public GPG key
wget -q0 - https://releases.jfrog.io/artifactory/api/gpg/key/public | sudo
apt-key add -

# Determine your distribution

# Add JFrog Artifactory repository to sources.list
echo "deb https://releases.jfrog.io/artifactory/artifactory-debs ${DISTRO}}
main" | sudo tee -a /etc/apt/sources.list

# Update package lists
sudo apt-get update

# Install JFrog Artifactory C++ CE
sudo apt-get install jfrog-artifactory-cpp-ce -y
```

Sure, let's break down the script and explain each command:

```
    `wget -qO - https://releases.jfrog.io/artifactory/api/gpg/key/public | sudo apt-key add -`
    `wget` is a free utility for non-interactive download of files from the Web. It supports HTTP, HTTPS, and FTP protocols.
        - `-q` turns off wget's output, making the operation "quiet".
        - `O -` directs wget to write the downloaded file to standard output.
        - `https://releases.jfrog.io/artifactory/api/gpg/key/public` is the URL from which the JFrog GPG (GNU Privacy Guard) public key is downloaded. GPG keys are used to ensure the integrity and authenticity of downloaded packages.
        - `|` is a pipe. It takes the output of the command on its left and uses it as the input for the command on its right.
        - `sudo apt-key add -` adds the GPG key retrieved from the previous command to the list of trusted keys. This allows your system to verify the
```



integrity and authenticity of the JFrog packages.

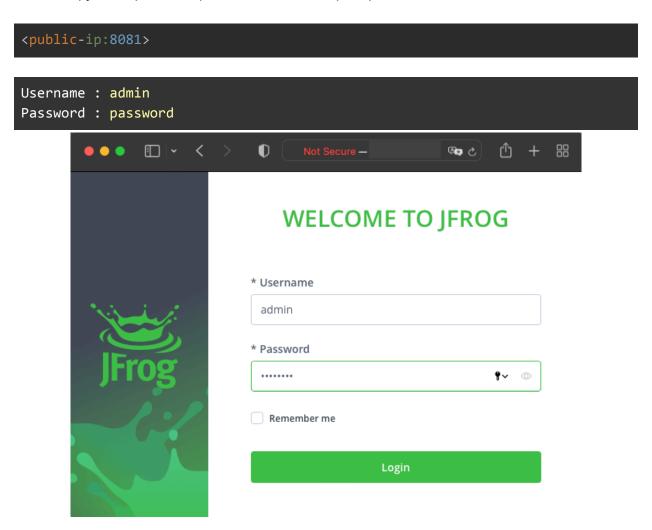
- 2. `DISTRO=\$(lsb_release -cs)`
- This command assigns the output of `lsb_release -cs` to the variable `DISTRO`.
- `lsb_release` is a utility that provides certain LSB (Linux Standard Base) and distribution-specific information.
- `-cs` option prints the codename of your operating system (e.g., xenial, bionic, focal).
- `DISTRO` now holds the codename of your Linux distribution, which will be used to specify the correct version of the repository for your system.
- 3. `echo "deb https://releases.jfrog.io/artifactory/artifactory-debs
 \${DISTRO} main" | sudo tee -a /etc/apt/sources.list`
- `echo` is used to display a line of text/string that is passed as an argument.
- This command constructs a repository source line for JFrog Artifactory.
- `\${DISTRO}` is where the distribution codename variable is expanded to its value.
- `| sudo tee -a /etc/apt/sources.list` appends the echoed line to `/etc/apt/sources.list` file. `tee` reads from standard input and writes to standard output and files. `-a` ensures it appends to the file without overwriting existing content. This command needs `sudo` because `/etc/apt/sources.list` is owned by root.
- 4. `sudo apt-get update`
- This command updates the list of available packages and their versions, but it does not install or upgrade any packages. It's essential to run this after adding new repositories to ensure your package lists are up to date.
- 5. `sudo apt-get install jfrog-artifactory-cpp-ce`
- Finally, this command installs the JFrog Artifactory C++ CE (Community Edition) package. `apt-get install` is used to install packages.
- `jfrog-artifactory-cpp-ce` is the name of the package to be installed.



Overall, this script sets up your system to install JFrog Artifactory for C++ by adding the JFrog repository to your system's software sources, ensuring the system recognizes it as a trusted source, and then proceeds to install the software.

Access in WebBrowser

1. Copy the public Ip of server and open port 8081 and 8082



Click on Login



WELCOME TO ARTIFACTORY COMMUNITY EDITION!

Universal End-to-End DevOps Platform For Continuous Software Releases

Get Started

Get Started

RESET ADMIN PASSWORD

Reset the admin password.
Once you reset your admin password, you will be able to proceed with onboarding.

Change Password

* New Password

Password Must Include:

At least 1 upper case letter

At least 1 lower case letter

At least 1 digits

* Retype Password

At least 8 characters long

Next \rightarrow skip \rightarrow skip \rightarrow

