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HOW TO INSTALL JFROG ARTIFACTORY ON UBUNTU 22.04



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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

```
ubuntu@ip-172-31-32-68:~$ sudo apt install fontconfig openjdk-17-jre
Reading package lists... Done          MR Cloud Book
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  libntfs-3g89
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  adwaita-icon-theme alsacard-conf at-spi2-core ca-certificates-java dconf-gsettings-backend dconf-service fontconfig-config fonts-dejavu-core fonts-dejavu-extra
  gsettings-desktop-schemas gtk-update-icon-cache hicolor-icon-theme humanity-icon-theme java-common libasound2 libasound2-data libatk-bridge2.0-0 libatk-wrapper-java
  libatk-wrapper-java-jni libatk1.0-0 libatk1.0-data libatspi2.0-0 libavahi-client3 libavahi-common-data libavahi-common3 libcairo-gobject2 libcairo2 libcurl2 libdatrie1 libdconf1
  libdeflate0 libdrm-amdgpu1 libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libfontconfig1 libfontenc1 libgail-common libgail18 libgd-pixbuf2-2.0-0 libgd-pixbuf2.0-0-bin
  libgherfuzz2-0-common libgif7 libgl-amber-dri libgl-mesa-dri libglapi-mesa libglvnd libglx-mesa0 libglx0 libgraphite2-3 libgtk2.0-0 libgtk2.0-0-bin libgtk2.0-0-common
  libharfbuzz0b libice6 libjbig0 libjpeg-turbo8 libjpegb8 liblcms2-2 liblvm15 libpango-1.0-0 libpangocairo-1.0-0 libpangofft-1.0-0 libpcieaccess0 libpccsclient1 libpixman-1 librsvg2-2
  librsvg2-common libssensors-config libssensors5 libsm6 libthai-data libthai0 libtiff5 libwebp7 libx11-xcb libxaw7 libxcb-driz2-0 libxcb-driz3-0 libxcb-glx0 libxcb-present0
  libxcb-randr0 libxcb-render0 libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0 libcomposite1 libcursor1 libdamaged1 libfixes3 libxft2 libx16 libxinerama1 libxbfile1 libxmu6
  libxpm4 libxrnd2 libxrender1 libxshmfence1 libxt6 libxtst6 libxv1 libxf86dg1 libxf86vm1 openjdk-17-jre-headless session-migration ubuntu-mono x11-common x11-utils
Suggested packages:
  default-jre libasound2-plugins alsaaudio cups-common gvfs liblcms2-utils pcscd librsvg2-bin lm-sensors libnss-mdns fonts-ipafont-gothic fonts-ipafont-mincho fonts-wqy-microhei
  | fonts-wqy-zhenhei fonts-indic mesa-utils
The following NEW packages will be installed:
  adwaita-icon-theme alsacard-conf at-spi2-core ca-certificates-java dconf-gsettings-backend dconf-service fontconfig-config fonts-dejavu-core
  fonts-dejavu-extra gsettings-desktop-schemas gtk-update-icon-cache hicolor-icon-theme humanity-icon-theme java-common libasound2-data libatk-bridge2.0-0
  libatk-wrapper-java libatk-wrapper-java-jni libatk1.0-0 libatk1.0-data libatspi2.0-0 libavahi-client3 libavahi-common-data libavahi-common3 libcairo-gobject2 libcairo2 libcurl2
  libdatrie1 libdconf1 libdeflate0 libdrm-amdgpu1 libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libfontconfig1 libfontenc1 libgail-common libgail18 libgd-pixbuf2-2.0-0
  libgd-pixbuf2.0-0-bin libgd-pixbuf2.0-common libgif7 libgl-amber-dri libgl-mesa-dri libglapi-mesa libglvnd libglx-mesa0 libglx0 libgraphite2-3 libgtk2.0-0 libgtk2.0-0-bin
  libgtk2.0-common libharfbuzzz0b libice6 libjbig0 libjpeg-turbo8 libjpegb8 liblcms2-2 liblvm15 libpango-1.0-0 libpangocairo-1.0-0 libpangofft-1.0-0 libpcieaccess0 libpccsclient1
  libpixman-1 librsvg2-2 librsvg2-common libssensors-config libssensors5 libsm6 libthai-data libthai0 libtiff5 libwebp7 libx11-xcb libxaw7 libxcb-driz2-0 libxcb-driz3-0 libxcb-glx0
  libxcb-present0 libxcb-randr0 libxcb-render0 libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0 libcomposite1 libcursor1 libdamaged1 libfixes3 libxft2 libx16 libxinerama1
  libxbfile1 libxmu6 libxpm4 libxrnd2 libxrender1 libxshmfence1 libxt6 libxtst6 libxv1 libxf86dg1 libxf86vm1 openjdk-17-jre-headless session-migration ubuntu-mono
  x11-common x11-utils
0 upgraded, 114 newly installed, 0 to remove and 52 not upgraded.
Need to get 106 MB of archives.
After this operation, 442 MB of additional disk space will be used.
Do you want to continue? [Y/n] ■
```

Fetch and add the JFrog public GPG key

```
wget -qO - https://releases.jfrog.io/artifactory/api/gpg/key/public | su
```

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:~$ wget -qO - 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}
```

Update package lists

```
sudo apt-get update
```

```
ubuntu@ip-172-31-32-68:~$ DISTRO=$(lsb_release -cs)
ubuntu@ip-172-31-32-68:~$ echo "deb https://releases.jfrog.io/artifactory/artifactory-debs ${DISTRO} main" | sudo tee -a /etc/apt/sources.list
deb https://releases.jfrog.io/artifactory/artifactory-debs jammy main
ubuntu@ip-172-31-32-68:~$ sudo apt-get update
Mr Cloud Book
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-haports InRelease
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease
Get:5 https://releases.jfrog.io/artifactory/artifactory-debs jammy InRelease [2924 B]
Get:6 https://releases.jfrog.io/artifactory/artifactory-debs jammy/main amd64 Packages [32.8 kB]
Fetched 35.8 kB in 1s (25.3 kB/s)
Reading package lists... Done
W: https://releases.jfrog.io/artifactory/artifactory-debs/dists/jammy/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
ubuntu@ip-172-31-32-68:~$
```

Install JFrog Artifactory C++ CE



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



```

ubuntu@ip-172-31-32-68:~$ sudo apt-get install jfrog-artifactory-cpp-ce
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  libntfs-3g89
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  net-tools
The following NEW packages will be installed:
  jfrog-artifactory-cpp-ce net-tools
0 upgraded, 2 newly installed, 0 to remove and 52 not upgraded.
Need to get 1413 MB of archives.
After this operation, 2382 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 net-tools amd64 1.60+git20181103.0eebece-1ubuntu5 [204 kB]
Get:2 https://releases.jfrog.io/artifactory/artifactory-debs jammy/main amd64 jfrog-artifactory-cpp-ce amd64 7.77.9 [1413 MB]
Fetched 1413 MB in 2min 56s (8013 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 65584 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20181103.0eebece-1ubuntu5_amd64.deb ...
Unpacking net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Selecting previously unselected package jfrog-artifactory-cpp-ce.
Preparing to unpack .../jfrog-artifactory-cpp-ce_7.77.9_amd64.deb ...
dpkg-query: no packages found matching artifactory
Checking if group artifactory exists...
Group artifactory doesn't exist. Creating ...
Checking if user artifactory exists...
User artifactory doesn't exist. Creating ...
Checking if artifactory data directory exists
Removing tomcat work directory
Unpacking jfrog-artifactory-cpp-ce (7.77.9) ...
Setting up net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Setting up jfrog-artifactory-cpp-ce (7.77.9) ...
Adding the artifactory service to auto-start... DONE

***** SUCCESS *****
The Installation of Artifactory has completed successfully.

NOTE: It is highly recommended to use Artifactory with an external database (MySQL, Oracle, Microsoft SQL Server, PostgreSQL, MariaDB).
      For details about how to configure the database, refer to https://service.jfrog.org/installer/Configuring+the+Database

Start Artifactory with:
> systemctl start artifactory.service

Check Artifactory status with:
> systemctl status artifactory.service

Installation directory was set to /opt/jfrog/artifactory
You can find more information in the log directory /opt/jfrog/artifactory/var/log
System configuration templates can be found under /opt/jfrog/artifactory/var/etc
Copy any configuration you want to modify from the template to /opt/jfrog/artifactory/var/etc/system.yaml

Triggering migration script, this will migrate if needed ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-32-68:~$ █

```

Clear Explanation of above Script/ Complete script



```

#!/bin/bash
sudo apt update
# Fetch and add the JFrog public GPG key
wget -qO - https://releases.jfrog.io/artifactory/api/gpg/key/public | su
# 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:

1. `wget -q0 - 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”.
- `0` - 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.

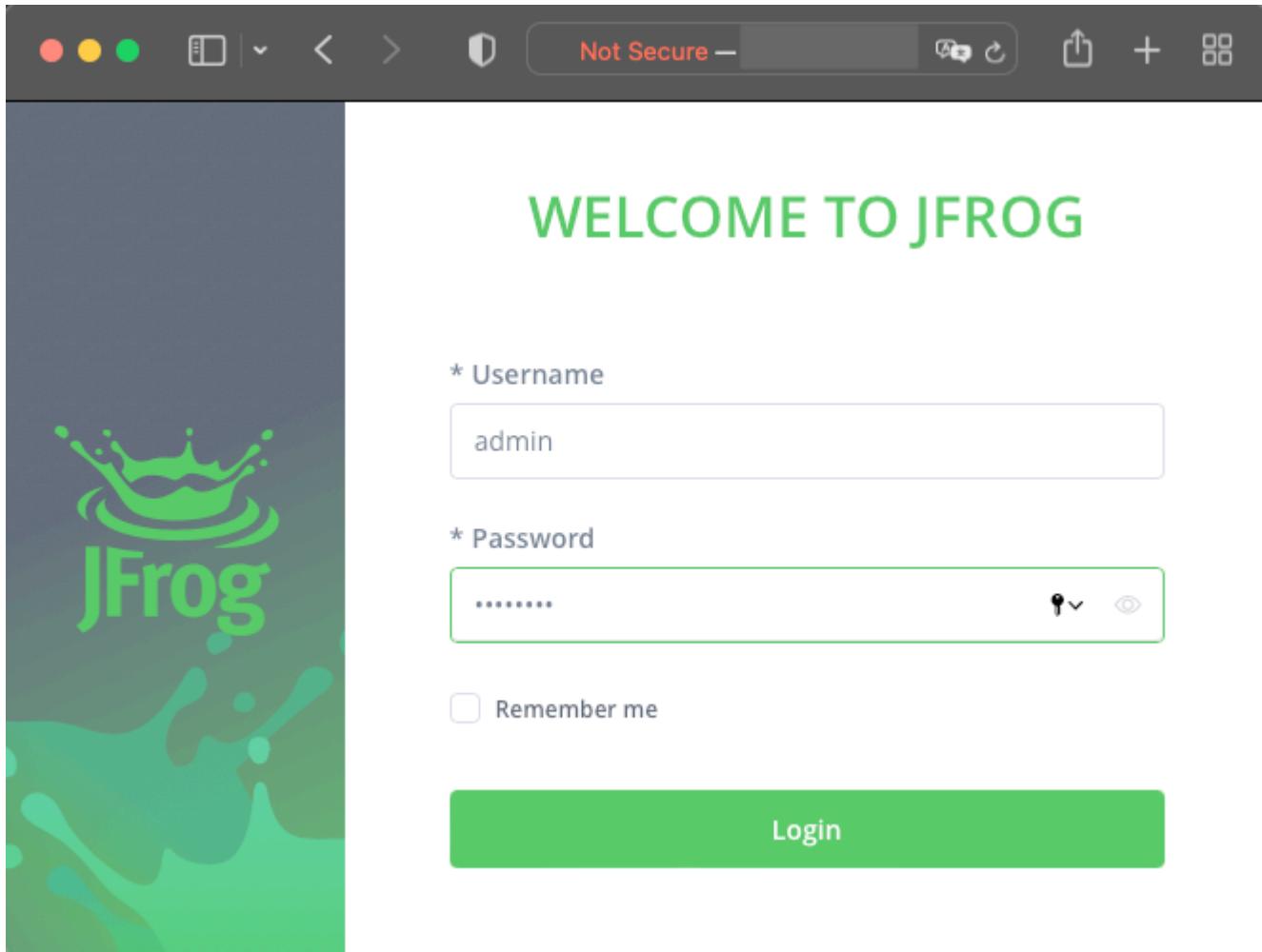
Access in WebBrowser

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



<public-ip:8081>
Username : admin
Password : password





Click on Login

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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

(eye)

Password Strength



* Retype Password

(eye)

Password Must Include:

- ✓ At least 1 upper case letter
- ✓ At least 1 lower case letter
- ✓ At least 1 digits
- ✓ At least 8 characters long

Next → skip → skip →

devops

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Ubuntu



Ajay Kumar Yegireddi is a DevSecOps Engineer and System Administrator, with a passion for sharing real-world DevSecOps projects and tasks. **Mr. Cloud Book**, provides hands-on tutorials and practical insights to help others master DevSecOps tools and workflows. Content is designed to bridge the gap between development, security,

and operations, making complex concepts easy to understand for both beginners and professionals.

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