

LINUX MODULE

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L6 - Write a Linux Shell Script to Install Git, JDK, Maven in EC2 Ubuntu Instance

- **STEP 1- LAUNCH AN EC2 INSTANCE**
- **STEP 2- CONNECT THE INSTANCE**
- **STEP 3- SHELL SCRIPT**

Write down the shell script to install java, git and maven

```
(#!/bin/bash  
sudo apt update -y  
echo "packaged update"  
sudo apt install openjdk-17-jdk -y  
echo "java installed"  
java --version  
sudo apt install git -y  
echo "git installed"  
git --version  
sudo apt install maven -y  
echo "maven installed"  
mvn -version)
```

1. To install java

Sudo apt install openjdk-17-jdk

2. To install git

Sudo apt install git

3. To install maven

Sudo apt install maven

- **Step 4- Check installed version**

LAUNCH THE INSTANCE

The screenshot displays the AWS Management Console interface for the EC2 service. The left-hand navigation pane includes links to the Dashboard, EC2 Global View, Events, and a list of services under 'Instances' (Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity, and Reservations). Below these are sections for 'Images' (AMIs, AMI Catalog) and 'Elastic Block Store' (Volumes, Snapshots). The main content area is titled 'Instances (1/1)' and shows a single instance named 'demo' with ID 'i-00f4d7bc77614eaed'. The instance is in the 'Running' state, using the 't2.micro' instance type. Below the instance list, the 'Details' tab for the specific instance is open, showing a summary of its configuration: Instance ID, Public IPv4 address (13.201.134.199), Private IPv4 addresses (172.31.12.195), IPv6 address (none), Instance state (Running), and Public IPv4 DNS (ec2-13-201-134-199.ap-south-1.compute.amazonaws.com).

Name	Instance ID	Instance state	Instance type	Status check
demo	i-00f4d7bc77614eaed	Running	t2.micro	Initializing

i-00f4d7bc77614eaed (demo)		
Instance summary		
Instance ID	Public IPv4 address	Private IPv4 addresses
i-00f4d7bc77614eaed	13.201.134.199 open address	172.31.12.195
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-13-201-134-199.ap-south-1.compute.amazonaws.com

CONNECT THE INSTANCE

aws

Services

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Mumbai

ADESH ADHAV

EC2

Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1016-aws x86_64)

* Documentation: <https://help.ubuntu.com>

* Management: <https://landscape.canonical.com>

* Support: <https://ubuntu.com/pro>

System information as of Mon Nov 11 10:36:40 UTC 2024

System load: 0.08

Processes: 105

Usage of /: 34.8% of 6.71GB

Users logged in: 0

Memory usage: 23%

IPv4 address for enX0: 172.31.12.195

Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

42 updates can be applied immediately.

22 of these updates are standard security updates.

To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.

See <https://ubuntu.com/esm> or run: sudo pro status

Last login: Mon Nov 11 10:35:28 2024 from 13.233.177.3

ubuntu@ip-172-31-12-195:~\$

i-00f4d7bc77614eae (demo)

PublicIPs: 13.201.134.199 PrivateIPs: 172.31.12.195

CloudShell

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- **SHELL SCRIPT**

[illegible]

- **OUTPUT**

AWS

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EC2

Building dependency tree... Done
Reading state information... Done
openjdk-17-jdk is already the newest version (17.0.13+11-2ubuntu1~24.04).
0 upgraded, 0 newly installed, 0 to remove and 30 not upgraded.
java installed
openjdk 17.0.13 2024-10-15
OpenJDK Runtime Environment (build 17.0.13+11-Ubuntu-2ubuntu124.04)
OpenJDK 64-Bit Server VM (build 17.0.13+11-Ubuntu-2ubuntu124.04, mixed mode, sharing)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.43.0-1ubuntu7.1).
0 upgraded, 0 newly installed, 0 to remove and 30 not upgraded.
git installed
git version 2.43.0
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
maven is already the newest version (3.8.7-2).
0 upgraded, 0 newly installed, 0 to remove and 30 not upgraded.
maven installed
Apache Maven 3.8.7
Maven home: /usr/share/maven
Java version: 17.0.13, vendor: Ubuntu, runtime: /usr/lib/jvm/java-17-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.8.0-1016-aws", arch: "amd64", family: "unix"
root@ip-172-31-12-195:/home/ubuntu#

i-00f4d7bc77614eae4 (demo)

PublicIPs: 13.201.134.199 PrivateIPs: 172.31.12.195

- INSTALLED JAVA, GIT, MAVEN

The screenshot shows an AWS CloudShell terminal window. The top bar includes the AWS logo, a 'Services' menu, a search bar, and user information 'Mumbai' and 'ADESH ADHAV'. The terminal title is 'EC2'. The terminal content shows the following commands and output:

```
ubuntu@ip-172-31-12-195:~$ ls
shell.sh
ubuntu@ip-172-31-12-195:~$ java --version
openjdk 17.0.13 2024-10-15
OpenJDK Runtime Environment (build 17.0.13+11-Ubuntu-2ubuntu124.04)
OpenJDK 64-Bit Server VM (build 17.0.13+11-Ubuntu-2ubuntu124.04, mixed mode, sharing)
ubuntu@ip-172-31-12-195:~$ git --version
git version 2.43.0
ubuntu@ip-172-31-12-195:~$ mvn --version
Apache Maven 3.8.7
Maven home: /usr/share/maven
Java version: 17.0.13, vendor: Ubuntu, runtime: /usr/lib/jvm/java-17-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.8.0-1016-aws", arch: "amd64", family: "unix"
ubuntu@ip-172-31-12-195:~$
```

Below the terminal, there is a summary bar for the session 'i-00f4d7bc77614eaed (demo)' with Public IPs: 13.201.134.199 and Private IPs: 172.31.12.195. The bottom footer contains 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. or its affiliates, along with links for Privacy, Terms, and Cookie preferences.