

EC2 lab session - shell scripting

- installing git, maven ,java ,jenkins using shell script

The screenshot shows a terminal window titled "i-0a4ad074277e07959 (shellscriptexec) | EC2 Instance Connect - Work - Microsoft Edge". The terminal output shows the execution of `sudo apt-get update -y`, which lists various packages to be updated, including security updates and package lists. Below this, the `hostname` command is run, showing the IP address `ip-172-31-11-217`. Then, the `hostnamectl set-hostname ci-cdsetup` command is executed, and the prompt changes to `root@ci-cdsetup:~#`. The terminal window is part of a desktop environment with a taskbar at the bottom showing various application icons and system status (27°C Cloudy, 2:17 PM, 10/11/2022).

```
ubuntu@ip-172-31-11-217:~$ sudo su -
root@ip-172-31-11-217:~# sudo apt-get update -y
Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [114 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [370 kB]
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [99.8 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:7 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [84.1 kB]
Get:8 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [334 kB]
Get:9 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [51.5 kB]
Get:10 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [290 kB]
Get:11 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [64.0 kB]
Get:12 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [2408 B]
Get:13 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [4192 B]
Get:32 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [3008 B]
Get:33 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [1432 B]
Get:34 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [272 B]
Get:35 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:36 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [6752 B]
Get:37 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [9240 B]
Get:38 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [352 B]
Get:39 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Fetched 23.7 MB in 6s (3923 kB/s)
Reading package lists... Done
root@ip-172-31-11-217:~# hostname
ip-172-31-11-217
root@ip-172-31-11-217:~# hostnamectl set-hostname ci-cdsetup
root@ip-172-31-11-217:~# exec bash
root@ci-cdsetup:~# hostname
ci-cdsetup
root@ci-cdsetup:~#
```

i-0a4ad074277e07959 (shellscriptexec) Activate Windows
Go to Settings to activate Windows.

Public IPs: 65.1.110.198 Private IPs: 172.31.11.217

Type here to search WISSEN 27°C Cloudy 2:17 PM 10/11/2022

i-0a4ad074277e07959 (shellscriptexec) Activate Windows
Go to Settings to activate Windows.

Public IPs: 65.1.110.198 Private IPs: 172.31.11.217

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The screenshot shows a terminal window within the AWS Management Console, connected to an EC2 instance. The terminal displays the execution of a script named 'jenkinsfile.sh'. The script performs the following actions: updates the system, installs git and maven, installs openjdk-11-jdk, and downloads the latest Jenkins WAR file from mirrors.jenkins.io. The script includes sleep commands (10s, 20s, 5s, 50s) between steps. The terminal output shows the script is 9 lines long and 205 bytes in size. The AWS console interface at the top shows the 'EC2 Instance Connect' tab and the URL 'https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-0a4ad0742...'. The Windows taskbar at the bottom shows the date and time as 5:21 PM on 10/11/2022.

```
#!/bin/bash
sudo apt-get update -y
sleep 10
sudo apt-get install git maven -y
sleep 20
sudo apt-get install openjdk-11-jdk -y
sleep 5
wget http://mirrors.jenkins.io/war-stable/latest/jenkins.war
sleep 50

"jenkinsfile.sh" 9L, 205B
```

- versions of git maven java

The screenshot shows a terminal window within the AWS Management Console, connected to an EC2 instance. The terminal displays the output of three commands: 'git --version', 'mvn -version', and 'java -version'. The output shows that git version 2.34.1, Apache Maven 3.6.3, and OpenJDK 11.0.16 are installed. The terminal output also shows the Maven home directory, Java version, vendor, runtime, default locale, platform encoding, and OS name. The AWS console interface at the top shows the 'EC2 Instance Connect' tab and the URL 'https://ap-south-1.console.aws.amazon.com/ec2/connect/ubuntu/i-0a4ad074277e07959'. The Windows taskbar at the bottom shows the date and time as 2:36 PM on 10/11/2022.

```
root@ci-cdsetup:~# git --version
git version 2.34.1
root@ci-cdsetup:~# mvn -version
Apache Maven 3.6.3
Maven home: /usr/share/maven
Java version: 11.0.16, vendor: Ubuntu, runtime: /usr/lib/jvm/java-11-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "5.15.0-1019-aws", arch: "amd64", family: "unix"
root@ci-cdsetup:~# java -version
openjdk version "11.0.16" 2022-07-19
OpenJDK Runtime Environment (build 11.0.16+8-post-Ubuntu-0ubuntu122.04)
OpenJDK 64-Bit Server VM (build 11.0.16+8-post-Ubuntu-0ubuntu122.04, mixed mode)
root@ci-cdsetup:~#
```

outlook - Search x aws console login - Search x Connect to instance | EC2 Manag... x EC2 Instance Connect x +

https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-0a4ad0742...

aws Services Search for services, features, blogs, docs, and more [Alt+S] Mumbai Hareesh p

```
Reading state information... Done
maven is already the newest version (3.6.3-5).
git is already the newest version (1:2.34.1-lubuntu1.4).
0 upgraded, 0 newly installed, 0 to remove and 45 not upgraded.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
openjdk-11-jdk is already the newest version (11.0.16+8-0ubuntu1~22.04).
0 upgraded, 0 newly installed, 0 to remove and 45 not upgraded.
URL transformed to HTTPS due to an HSTS policy
--2022-10-11 11:54:14-- https://mirrors.jenkins.io/war-stable/latest/jenkins.war
Resolving mirrors.jenkins.io (mirrors.jenkins.io)... 52.167.253.43
Connecting to mirrors.jenkins.io (mirrors.jenkins.io)|52.167.253.43|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://ftp-nyc.osuosl.org/pub/jenkins/war-stable/latest/jenkins.war [following]
--2022-10-11 11:54:14-- https://ftp-nyc.osuosl.org/pub/jenkins/war-stable/latest/jenkins.war
Resolving ftp-nyc.osuosl.org (ftp-nyc.osuosl.org)... 64.50.233.100, 2600:3404:200:237::2
Connecting to ftp-nyc.osuosl.org (ftp-nyc.osuosl.org)|64.50.233.100|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 93504834 (89M) [application/x-java-archive]
Saving to: 'jenkins.war.1'

jenkins.war.1          100%[=====>] 89.17M  7.62MB/s   in 20s

2022-10-11 11:54:35 (4.49 MB/s) - 'jenkins.war.1' saved [93504834/93504834]
```

Activate Windows
Go to Settings to activate Windows.

Feedback Looking for language selection? Find it in the new Unified Settings [?] © 2022, Amazon Internet Services Private Ltd. or its affiliates. Privacy Terms Cookie preferences

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5:07



VoLTE 1
LTE 2



4G

84%



3.114.34.33:8080



2



Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (**not sure where to find it?**) and this file on the server:

```
/root/.jenkins/secrets/initialAd
```

4

Please copy the password from either location and







