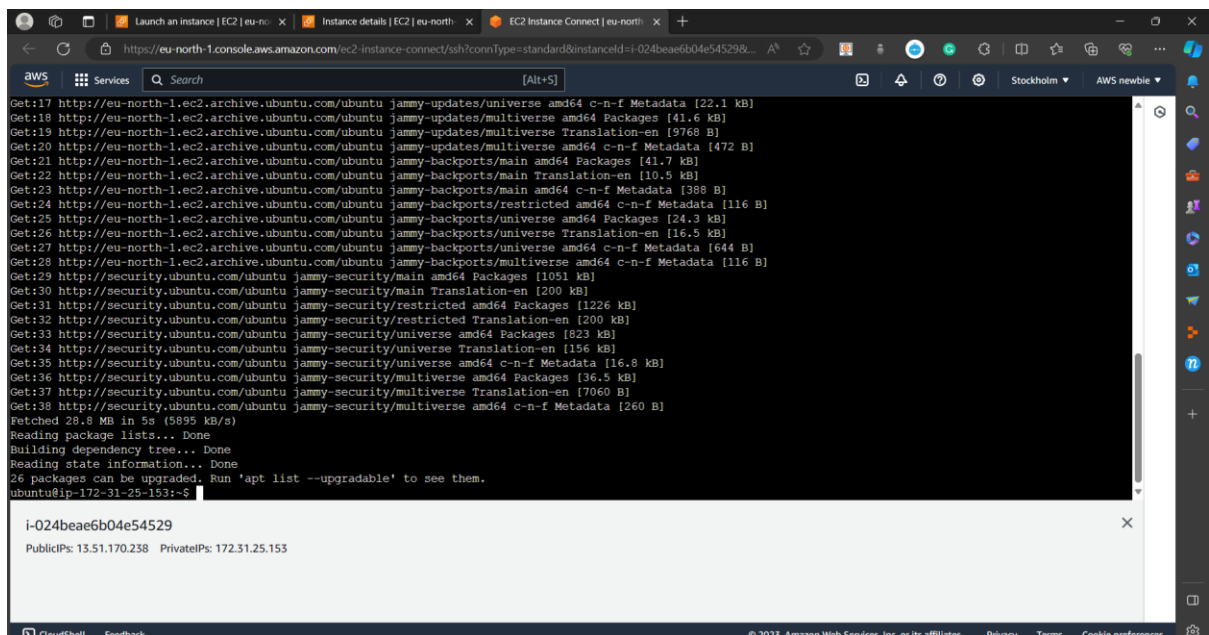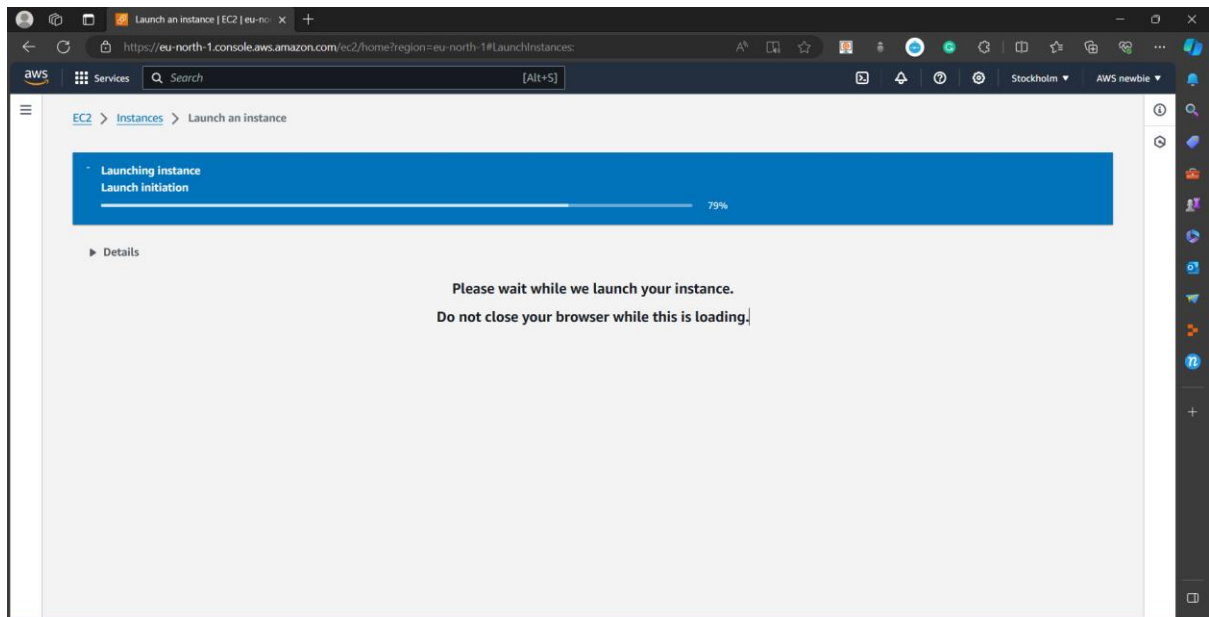Today's task :

Create Ubuntu machine

Install jenkins

Create 3 jobs

Configure upstream and downstream for jobs.

```
Preparing to unpack .../033-fonts-dejavu-core_2.37-2build1_all.deb ...
Unpacking fonts-dejavu-core (2.37-2build1) ...
Selecting previously unselected package fontconfig-config.
Preparing to unpack .../034-fontconfig-config_2.13.1-4.2ubuntu5_all.deb ...
Unpacking fontconfig-config (2.13.1-4.2ubuntu5) ...
Selecting previously unselected package libfontconfig1:amd64.
Preparing to unpack .../035-libfontconfig1_2.13.1-4.2ubuntu5_amd64.deb ...
Unpacking libfontconfig1:amd64 (2.13.1-4.2ubuntu5) ...
Selecting previously unselected package libpcsclite1:amd64.
Preparing to unpack .../036-libpcsclite1_1.9.5-3ubuntu1_amd64.deb ...
Unpacking libpcsclite1:amd64 (1.9.5-3ubuntu1) ...
Selecting previously unselected package libxrender1:amd64.
Preparing to unpack .../037-libxrender1_1%3a0.9.10-1build4_amd64.deb ...
Unpacking libxrender1:amd64 (1:0.9.10-1build4) ...
Selecting previously unselected package openjdk-8-jre-headless:amd64.
Preparing to unpack .../038-openjdk-8-jre-headless_8u392-ga-1~22.04_amd64.deb ...
Unpacking openjdk-8-jre-headless:amd64 (8u392-ga-1~22.04) ...
Selecting previously unselected package ca-certificates-java.
Preparing to unpack .../039-ca-certificates-java_20190909ubuntu1.2_all.deb ...
Unpacking ca-certificates-java (20190909ubuntu1.2) ...
Selecting previously unselected package fontconfig.
Preparing to unpack .../040-fontconfig_2.13.1-4.2ubuntu5_amd64.deb ...
Unpacking fontconfig (2.13.1-4.2ubuntu5) ...
Selecting previously unselected package fonts-dejavu-extra.
Preparing to unpack .../041-fonts-dejavu-extra_2.37-2build1_all.deb ...
Unpacking fonts-dejavu-extra (2.37-2build1) ...

Progress: [ 15% ] [######################.........................................]
```

i-024beae6b04e54529

PublicIPs: 13.51.170.238   PrivateIPs: 172.31.25.153

```
ubuntu@ip-172-31-25-153:~$ sudo apt update
Hit:1 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease
Ign:4 https://pkg.jenkins.io/debian-stable binary/ InRelease
Get:6 https://pkg.jenkins.io/debian-stable binary/ Release [2044 B]
Get:7 https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 B]
Get:8 https://pkg.jenkins.io/debian-stable binary/ Packages [26.0 kB]
Fetched 28.9 kB in 1s (35.9 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
26 packages can be upgraded. Run 'apt list --upgradable' to see them.
W: http://pkg.jenkins.io/debian-stable/binary/Release.gpg: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-
key(8) for details.
ubuntu@ip-172-31-25-153:~$ sudo apt install jenkins
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  net-tools
The following NEW packages will be installed:
  jenkins net-tools
0 upgraded, 2 newly installed, 0 to remove and 26 not upgraded.
Need to get 89.2 MB of archives.
After this operation, 90.4 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

i-024beae6b04e54529

PublicIPs: 13.51.170.238   PrivateIPs: 172.31.25.153

```
Fetched 172 kB in 1s (257 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-25-153:~$ sudo apt-get install fontconfig openjdk-17-jre
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
fontconfig is already the newest version (2.13.1-4.2ubuntu5).
fontconfig set to manually installed.
Suggested packages:
  libnss-mdns fonts-ipafont-gothic fonts-ipafont-mincho fonts-wqy-microhei | fonts-wqy-zenhei fonts-indic
The following NEW packages will be installed:
  openjdk-17-jre openjdk-17-jre-headless
0 upgraded, 2 newly installed, 0 to remove and 27 not upgraded.
1 not fully installed or removed.
Need to get 48.4 MB of archives.
After this operation, 193 MB of additional disk space will be used.
Get:1 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 openjdk-17-jre-headless amd64 17.0.9+9-1~22.04 [48.2 MB]
Get:2 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 openjdk-17-jre amd64 17.0.9+9-1~22.04 [203 kB]
Fetched 48.4 MB in 1s (61.3 MB/s)
Selecting previously unselected package openjdk-17-jre-headless:amd64.
(Reading database ... 81183 files and directories currently installed.)
Preparing to unpack .../openjdk-17-jre-headless_17.0.9+9-1~22.04_amd64.deb ...
Unpacking openjdk-17-jre-headless:amd64 (17.0.9+9-1~22.04) ...
Selecting previously unselected package openjdk-17-jre:amd64.
Preparing to unpack .../openjdk-17-jre_17.0.9+9-1~22.04_amd64.deb ...
Unpacking openjdk-17-jre:amd64 (17.0.9+9-1~22.04) ...
Setting up jenkins (2.426.2) ...
```

i-024beae6b04e54529

PublicIPs: 13.51.170.238   PrivateIPs: 172.31.25.153


```
Last login: Wed Dec 27 07:23:15 2023 from 13.48.4.202
ubuntu@ip-172-31-25-153:~$ sudo systemctl start jenkins
ubuntu@ip-172-31-25-153:~$ sudo systemctl enable jenkins
Synchronizing state of jenkins.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable jenkins
ubuntu@ip-172-31-25-153:~$ sudo systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
     Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
     Active: active (running) since Wed 2023-12-27 07:41:32 UTC; 29min ago
   Main PID: 7687 (java)
      Tasks: 41 (limit: 1091)
     Memory: 277.2M
        CPU: 36.702s
     CGroup: /system.slice/jenkins.service
             └─7687 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Dec 27 07:41:14 ip-172-31-25-153 jenkins[7687]: Jenkins initial setup is required. An admin user has been created and a password generated.
Dec 27 07:41:14 ip-172-31-25-153 jenkins[7687]: Please use the following password to proceed to installation:
Dec 27 07:41:14 ip-172-31-25-153 jenkins[7687]: e1664c86e941470e81ebcd623981ad89
Dec 27 07:41:14 ip-172-31-25-153 jenkins[7687]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Dec 27 07:41:14 ip-172-31-25-153 jenkins[7687]: *************************************************************
Dec 27 07:41:14 ip-172-31-25-153 jenkins[7687]: *************************************************************
Dec 27 07:41:14 ip-172-31-25-153 jenkins[7687]: *************************************************************
Dec 27 07:41:31 ip-172-31-25-153 jenkins[7687]: 2023-12-27 07:41:31.983+0000 [id=32]     INFO     jenkins.InitReactorRunner$1#onAttained: Completed initial
Dec 27 07:41:32 ip-172-31-25-153 jenkins[7687]: 2023-12-27 07:41:32.006+0000 [id=24]     INFO     hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up a
Dec 27 07:41:32 ip-172-31-25-153 systemd[1]: Started Jenkins Continuous Integration Server.
lines 1-20/20 (END)
```

i-024beae6b04e54529

PublicIPs: 13.51.170.238   PrivateIPs: 172.31.25.153

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:

`/var/lib/jenkins/secrets/initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password

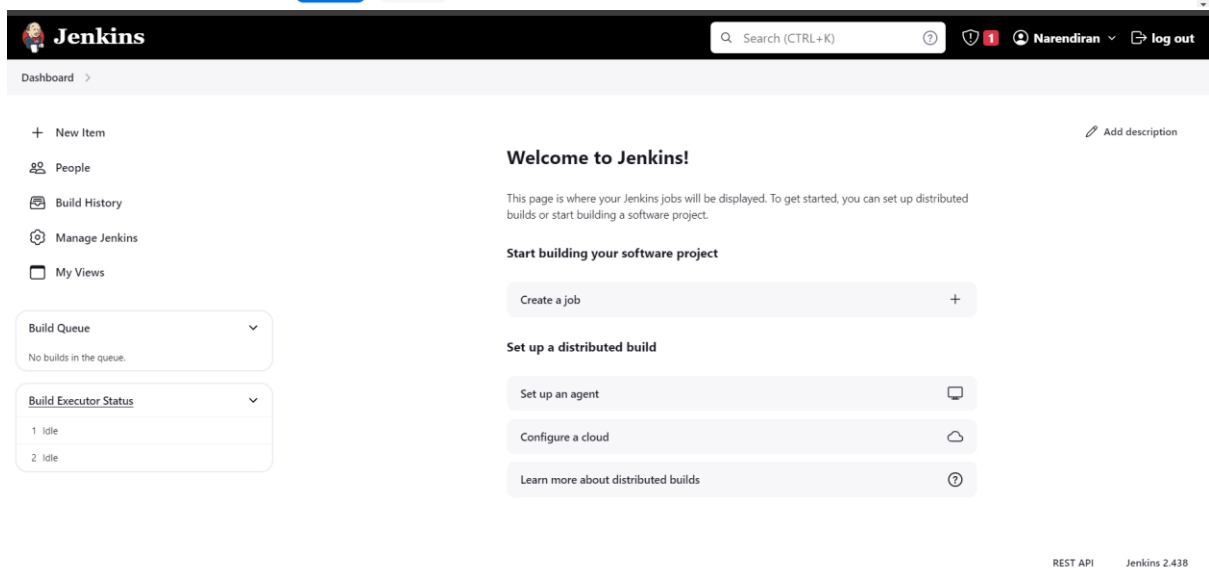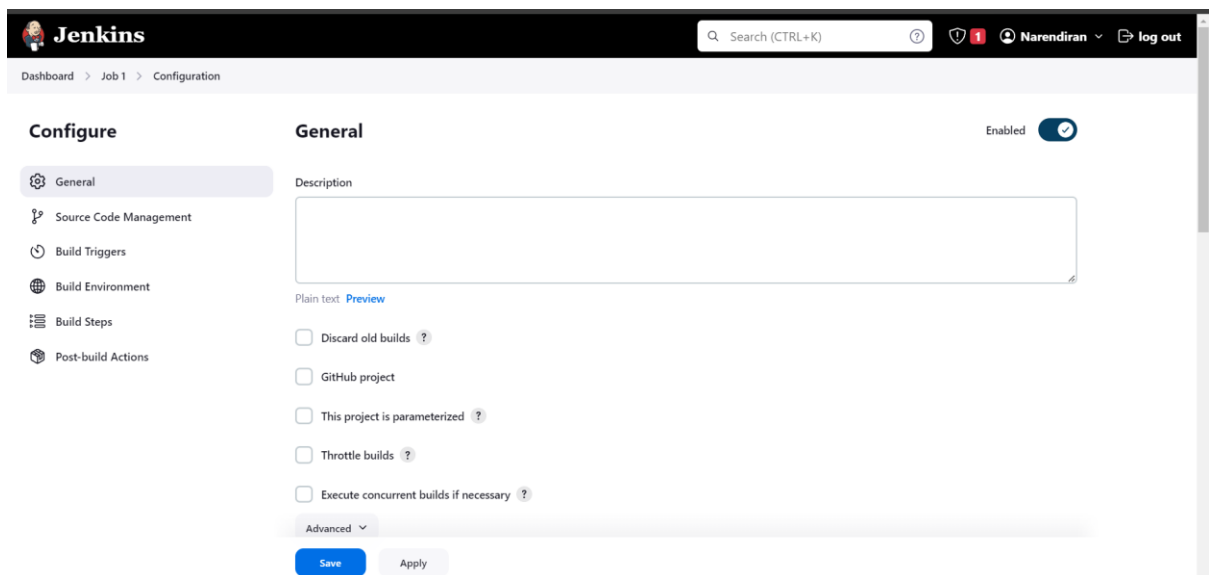............................

Continue

Getting Started

Getting Started

✓ Folders	✓ OWASP Markup Formatter	Build Timeout	Credentials Binding
Timestamper	Workspace Cleanup	Ant	Gradle
Pipeline	GitHub Branch Source	Pipeline: GitHub Groovy Libraries	Pipeline: Stage View
Git	SSH Build Agents	Matrix Authorization Strategy	PAM Authentication
LDAP	Email Extension	Mailer	

```
** Ionicons API
Folders
OWASP Markup Formatter




** - required dependency
```

Jenkins 2.438

Getting Started

Jenkins is ready!

Your Jenkins setup is complete.

[Start using Jenkins]

Jenkins 2.438

Jenkins

Search (CTRL+K) ? 🛡 1 👤 Narendiran ▾ ⤷ log out

Configure

- ⚙ General
- ⑂ Source Code Management
- ⟳ Build Triggers
- 🌐 Build Environment
- ☰ Build Steps
- ⬡ Post-build Actions

General

Enabled ✓

Description

Plain text **Preview**

☐ Discard old builds ?

☐ GitHub project

☐ This project is parameterized ?

☐ Throttle builds ?

☐ Execute concurrent builds if necessary ?

Advanced ⌄

[Save] [Apply]

Jenkins

Search (CTRL+K) ? 🛡 1 👤 Narendiran ▾ ⤷ log out

- ＋ New Item
- 👥 People
- 🖥 Build History
- ⚙ Manage Jenkins
- ▢ My Views

Build Queue ⌄
No builds in the queue.

Build Executor Status ⌄
1 Idle
2 Idle

✎ Add description

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job ＋

Set up a distributed build

Set up an agent 🖥

Configure a cloud ☁

Learn more about distributed builds ⊘

REST API   Jenkins 2.438

	+
All	

Add description

S	W	Name ↓	Last Success	Last Failure	Last Duration	
⊙	☀	Job 1	N/A	N/A	N/A	▷
⊙	☀	Job 2	N/A	N/A	N/A	
⊙	☀	Job 3	N/A	N/A	N/A	

- New Item
- People
- Build History
- Manage Jenkins
- My Views

Build Queue
No builds in the queue.

Build Executor Status
1 Idle
2 Idle

Icon: S M L

Icon legend   Atom feed for all   Atom feed for failures   Atom feed for just latest builds

REST API   Jenkins 2.438

- Status
- Changes
- Console Output
  - View as plain text
- Edit Build Information
- Delete build '#2'
- ← Previous Build

✓ **Console Output**

```
Started by user Narendiran
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/Job 1
Triggering a new build of Job 2
Finished: SUCCESS
```

REST API   Jenkins 2.438

- Status
- Changes
- Workspace
- Build Now
- Configure
- Delete Project
- Rename

Build History   trend ∨

Filter...

✓ #2
| Dec 27, 2023, 8:35 AM

✓ #1
| Dec 27, 2023, 8:35 AM

Atom feed for all Atom feed for failures

✓ **Job 2**

Add description

Disable Project

Upstream Projects

✓ Job 1

Downstream Projects

⊙ Job 3

Permalinks

- Last build (#2), 14 sec ago
- Last stable build (#2), 14 sec ago
- Last successful build (#2), 14 sec ago
- Last completed build (#2), 14 sec ago