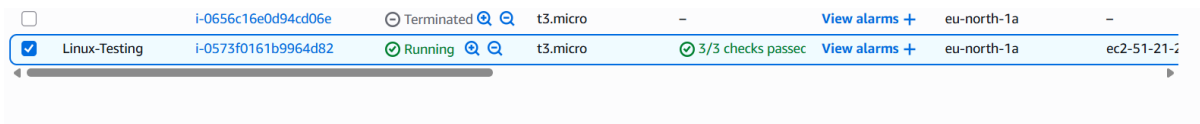# LINUX 03 (Class -03)

1. Launched one AWS ec2 and install Jenkins

Procedure: created server in AWS, searched EC2 then clicked launch, provided name Linux-testing, created key "linuxkey.pem". went download folder in windows opened gitbash. Installed nginx after updating by using command 'sudo apt update -y', then paste path of ec2 in gitbash.

☐		i-0656c16e0d94cd06e	⊖ Terminated 🔍 🔍	t3.micro	–	View alarms +	eu-north-1a	–
☑	Linux-Testing	i-0573f0161b9964d82	⊘ Running 🔍 🔍	t3.micro	⊘ 3/3 checks passed	View alarms +	eu-north-1a	ec2-51-21-2

- Nginx installation using 'sudo apt install nginx'

- Ec2 connection evidence

- Updated system using sudo apt update -y then install java using sudo apt install openjdk-17-jdk -y

- Then installed all jenkin packages by visiting site pkg.jenkins.io and installed all the packages from there then enter sudo apt install Jenkins -y and checked with 'sudo systemctl status jenkins'

2. Setup Apache tomcat on ubuntu virtual machine

Steps: Downloaded & extracted Tomcat

sudo tar -xvzf apache-tomcat-10.1.14.tar.gz -C /opt/

Gave permission

sudo chown -R $USER:$USER /opt/tomcat

Started Tomcat server

cd /opt/tomcat/bin

./startup.sh

Verified running process

ps aux | grep tomcat

Result: Apache Tomcat successfully installed and running on port 8080

Steps Followed in AWS & Browser

Created an EC2 Instance

Launched an Ubuntu instance in AWS.

Selected key pair (linuxkey.pem) for SSH access.

Edited Inbound Rules

Opened port 8080 (for Jenkins/Tomcat) and port 22 (for SSH).

Saved the security group changes.

Connected to EC2 from Git Bash

ssh -i "linuxkey.pem" ubuntu@<public-ip>

Installed Java and Jenkins

Installed Java (required for Jenkins).

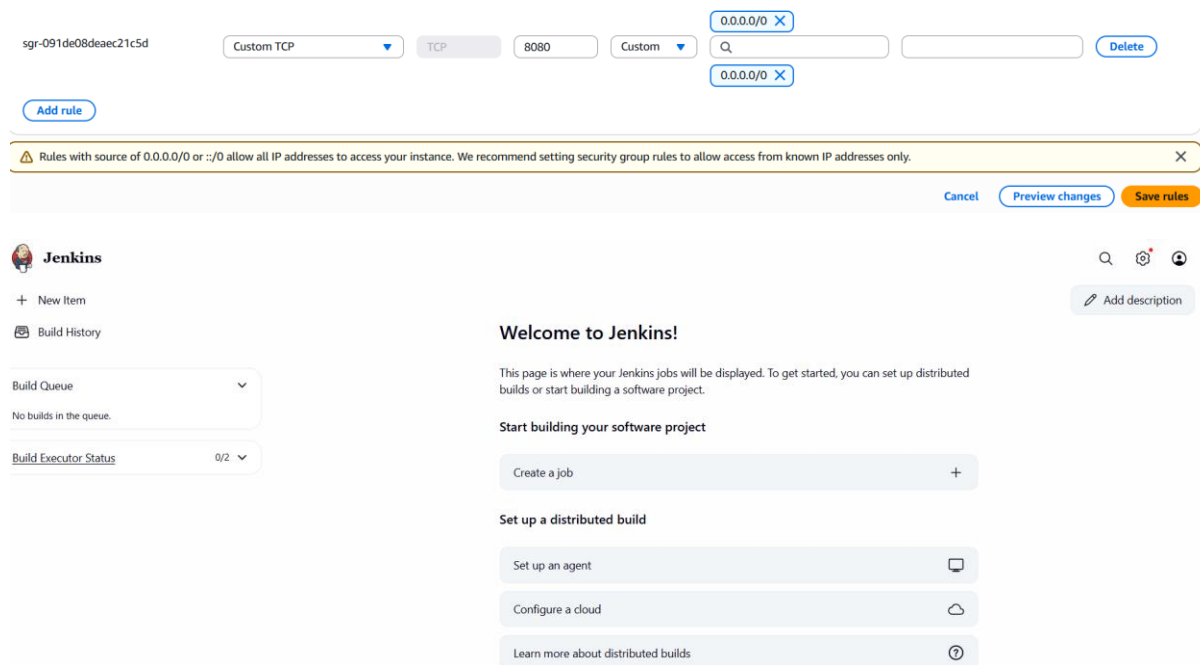Installed Jenkins and started the Jenkins service.

Accessed Jenkins in Browser

Opened http://<public-ip>:8080 in browser.

Entered the initial admin password (from terminal).

Completed Jenkins Setup

Clicked "Install suggested plugins."

Created admin user (entered name, username, password).

3. Downloaded docker, successfully installed and opened on windows system.