AWS EC2 & Linux Commands - Task Guide

Task 1: Launch EC2 Instance

Objective: Create a basic Linux server on AWS.

Steps:

1. Go to EC2 Dashboard -> Launch Instance
2. Name: LinuxPracticeInstance
3. AMI: Amazon Linux 2023 or Ubuntu 22.04
4. Instance type: t2.micro (Free Tier)
5. Key pair: Create or select .pem file
6. Allow ports: SSH (22), HTTP (80)
7. Launch instance

Task 2: Connect to EC2 via SSH

chmod 400 your-key.pem

ssh -i "your-key.pem" ec2-user@<Public-IP>

For Ubuntu AMI:

ssh -i "your-key.pem" ubuntu@<Public-IP>

Task 3: Basic Linux Commands

pwd - See current directory

ls -l - List files

mkdir demo_folder - Create a directory

touch test.txt - Create a file

cat test.txt - View file contents

nano test.txt or vi test.txt - Edit file

df -h - Check disk usage

free -m - Show memory usage

sudo reboot - Reboot server

Task 4: Install Apache Web Server

Amazon Linux:

sudo yum update -y

sudo yum install httpd -y

sudo systemctl start httpd

sudo systemctl enable httpd

Ubuntu:

sudo apt update

sudo apt install apache2 -y

sudo systemctl start apache2

sudo systemctl enable apache2

Task 5: Host Static Website

cd /var/www/html

sudo echo "<h1>Hello from EC2</h1>" > index.html

Task 6: Create User and Set Permissions

sudo adduser devuser

sudo passwd devuser

sudo usermod -aG wheel devuser

Task 7: Compress and Extract Files

tar -czvf archive.tar.gz demo_folder/

tar -xzvf archive.tar.gz

Task 8: Monitor Logs and Processes

top

ps aux

tail -f /var/log/messages (Amazon Linux)

tail -f /var/log/syslog (Ubuntu)

Task 9: Schedule a Cron Job

crontab -e

* * * * * echo "Hello Cron!" >> /home/ec2-user/cron.log

Task 10: Install and Use Git

sudo yum install git -y / sudo apt install git -y

git config --global user.name "Your Name"

git config --global user.email "you@example.com"

git clone https://github.com/yourname/repo.git

Bonus Task: Install Node.js or Python

Node.js (Amazon Linux):

curl -sL https://rpm.nodesource.com/setup_18.x | sudo bash -

sudo yum install -y nodejs

Python 3:

sudo yum install python3 -y

python3 --version

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Output Sample for Practice

- Screenshot of EC2 running instance
- Output of df -h, free -m, top, ls -l /var/www/html
- Webpage screenshot from Apache server