1. Link to AWS free tier:

[**https://aws.amazon.com/free/**](https://aws.amazon.com/free/)

1. Chmod equivalent in windows

use PowerShell:

icacls.exe key.pem /reset

icacls.exe key.pem /grant:r "$($env:username):(r)"

icacls.exe key.pem /inheritance:r

1. clear

**Installing ruby, git, wget**

1. sudo apt update
2. sudo apt install ruby-full
3. sudo apt install wget
4. sudo apt install git
5. pwd
6. mkdir projects
7. cd projects

**Cloning Django Project, Installing Python, Django, Docker.**

1. git clone https://github.com/manjunathdrbmsce/django-app.git
2. ls
3. cd django-app/
4. ls
5. sudo apt install python3-pip
6. pip install django
7. ls
8. python3 manage.py migrate
9. python manage.py runserver 0.0.0.0:8001
10. python3 manage.py runserver 0.0.0.0:8001
11. clear
12. sudo apt install docker.io
13. sudo service docker start
14. sudo service docker status
15. docker --version
16. sudo docker build . -t djangoapp
17. sudo docker run -p 8002:8002 7b8861815eee

**Installing Java and Jenkins**

1. sudo apt update
2. sudo apt install openjdk-11-jre
3. curl -fsSL https://pkg.jenkins.io/debian/jenkins.io.key | sudo tee \   /usr/share/keyrings/jenkins-keyring.asc > /dev/null
4. echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \   https://pkg.jenkins.io/debian binary/ | sudo tee \   /etc/apt/sources.list.d/jenkins.list > /dev/null
5. sudo apt-get update
6. sudo apt-get install jenkins
7. sudo systemctl enable jenkins
8. sudo systemctl start jenkins
9. clear
10. sudo cat /var/lib/jenkins/secrets/initialAdminPassword
11. ssh-keygen
12. cd .ssh
13. cd /home/ubuntu/.ssh
14. cat id\_rsa.pub
15. cat id\_rsa
16. cd /var/lib/jenkins/workspace/devopsapp
17. ls
18. sudo usermod -aG docker jenkins
19. sudo service jenkins restart