

Cloud Deployment

- Today's goal is to deploy a real web server on cloud and learn practical server management.
- Launch the cloud instance (AWS Utho)
- Connect via SSH
- Install nginx
- Configure security groups for web access (port 80 by default for nginx)
- Extract and save log to a file
- Verify your webpage is accessible from the internet

Part 1: Launch Cloud Instance & SSH

- ◆ Create a Cloud Instance:

Create a cloud instance using aws free tier.

- ◆ Connect via SSH:

Using putty for windows. Private keys are used to connect via SSH. The first step is to copy the public ip address. Then open the putty paste ip address in the hostname. Click on ssh navigate to auth then to credential and browse the path where ppk file is stored, select it and click on session to give a name to session and save it. After the select the session and click on load lastly on open. It will pop up the dialogue box and accept it. Then the terminal will open asking for username. Enter the username, it will start the cloud server.

Part 2: Install Docker && Nginx

Step 1: update system

Command: `sudo apt update && sudo apt upgrade -y` is to update and upgrade the system before installing docker and nginx.

Command: `sudo apt install docker.io`


Step 2: Install nginx

Command: `sudo apt install nginx`. This command will install the nginx service.

Verify nginx is running command to be used is `systemctl status nginx`, which will display whether the server is running or not.

Part 3: Security Group Configuration

The security group configuration is to go to the instance page and then click on security the tab then click on the security groups link, it will take to the other page, then click on edit inbound rules. Add a new rule with port range 80 in description, write nginx and save rules. Go back to the instance



Instances | EC2 | ap-south-1

Welcome to nginx!

Not secure 13.234.232.74

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.

Step 1: view Nginx logs

Step 2: save log to the file

Step 3: Download log file to your local machine

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