AWS EC2 TASKS

1. Launch one EC2 using Amazon Linux 2 image and add a script in user data to install Apache. A screenshot of a computer

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* sudo systemctl status httpd
* Active (Running)

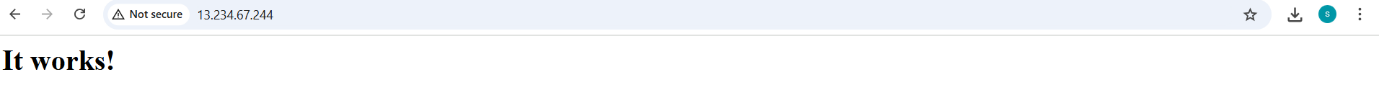
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* SCRIPT

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1. Launch one EC2 using Ubuntu image and add a script in user data to install Nginx.

* EC2 = A computer in AWS
* Ubuntu = Operating system
* User Data = A note that tells computer what to do when it starts
* Script installs **Nginx**, the web server that shows a page

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* SCRIPT NGINX

#!/bin/bash

apt update -y

apt install nginx -y

systemctl start nginx

systemctl enable nginx

* Check the status.

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1. Launch one Windows server and install Tomcat on Windows.

* **Launch the EC2 Instance**
* Go to **AWS Console → EC2 → Instances → Launch Instance**
* Name your instance EC2 SERVER Windows-Tomcat-Server
* **Username:** Administrator
* **Password:** (the decrypted one)
* Create a new key pair or use an existing one
* Download .pem file
* Next, click on **Get Password**
* Add **RDP (port 3389)** rule for your IP
* Add **HTTP (port 8080)** rule for Tomcat access

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1. Take a snapshot of the instance created in Task 1.

* AWS Management Console and go to the **EC2 dashboard**.
* navigation pane, click **Instances**.
* instance selected, click the **Actions** dropdown menu.
* Navigate to **Image and templates**, then select **Create image**.
* **Image name** and a helpful **Image description** (e.g., "Snapshot for EC2 instance created in Task 2").
* **stop the instance** before creating the image.
* To do this, leave the "No reboot" option unchecked
* Click **Create image**.
* In the EC2 dashboard, find **AMIs** under the **Images** section in the navigation pane

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1. Assign passwordless authentication for the EC2 created in Task 2.

* For **Ubuntu EC2 (Task 2)**
* First check if you already have an SSH key
* ssh-keygen
* cat /c/Users/syedv/.ssh/id\_rsa.pub
* ssh -i "key.pem" [ubuntu@ec2-3-109-121-126.ap-south-1.compute.amazonaws.com](mailto:ubuntu@ec2-3-109-121-126.ap-south-1.compute.amazonaws.com)
* cd .ssh/
* .ssh$ ls

authorized\_keys

* vi authorized\_keys = past ssh-keygen
* exist
* ssh [ubuntu@ec2-3-109-121-126.ap-south-1.compute.amazonaws.com](mailto:ubuntu@ec2-3-109-121-126.ap-south-1.compute.amazonaws.com)

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1. Launch any EC2 using the spot purchasing option

* Go to ec2 dashboard and in spot instance options select no maximum price
* Give default security groups and key pair
* Launch the instance in lifecycle details you will see spot

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1. Enable termination policy on the EC2 created in Task 2.

* Go to **EC2 Dashboard → Instances**.
* Select your Task 2 EC2 instance.
* Click on **Actions → Instance Settings → Change Termination Protection**.
* Check **“Enable”** and click **Save**.
* Now, the instance **cannot be accidentally terminated**.

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1. Launch one EC2 using AWS CLI.

* Make sure AWS CLI is configured
* aws configure
* Access Key
* Chmod 400 vasi.pem
* Ls
* Aws ec2 run instances /

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