# Jenkins Agents (Docker and Terraform)

## 1. Setting Up EC2 Instances

Create Docker agent EC2:

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, application

Description automatically generated

Bootstrap script to install Docker (*setup\_jenkins\_agent\_docker.sh*):

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Description automatically generated

Create Terraform agent EC2:

Graphical user interface, text, application, email

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Graphical user interface, text, application, email

Description automatically generated

Bootstrap script to install Docker (*setup\_jenkins\_agent\_terraform.sh*):

Graphical user interface, text, application, email

Description automatically generated

Confirm both instances are up and running:Graphical user interface, text, application

Description automatically generated

## 2. Setting Up Agents on Jenkins Server

On Jenkins Server, click on Build Executor Status on the bottom left side to view current nodes:

Graphical user interface, application

Description automatically generated

Click ‘+ New Node’ to create a new permanent Docker Agent:

Graphical user interface, application, Teams

Description automatically generated

Enter the following configurations:

* **Name**: dockerAgent
* **Description**: Docker Agent for CI/CD pipeline
* **Remote** **root directory**: /home/ubuntu/agent
* **Labels**: dockerAgent
* **Usage**: Only build jobs with label expressions matching this node
* **Launch method**: Launch agent via SSH
  + **Host**: {IP Address of Docker Agent EC2}
  + **Credentials**: {Global ubuntu credentials set from earlier step}
  + **Host Key Verification Strategy**: Non verifying Verification Strategy
* **Availability**: Keep this agent online as much as possible

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, Teams

Description automatically generated

Repeat the process for Terraform Agent and then verify both agents are up and running:

Graphical user interface, application

Description automatically generated