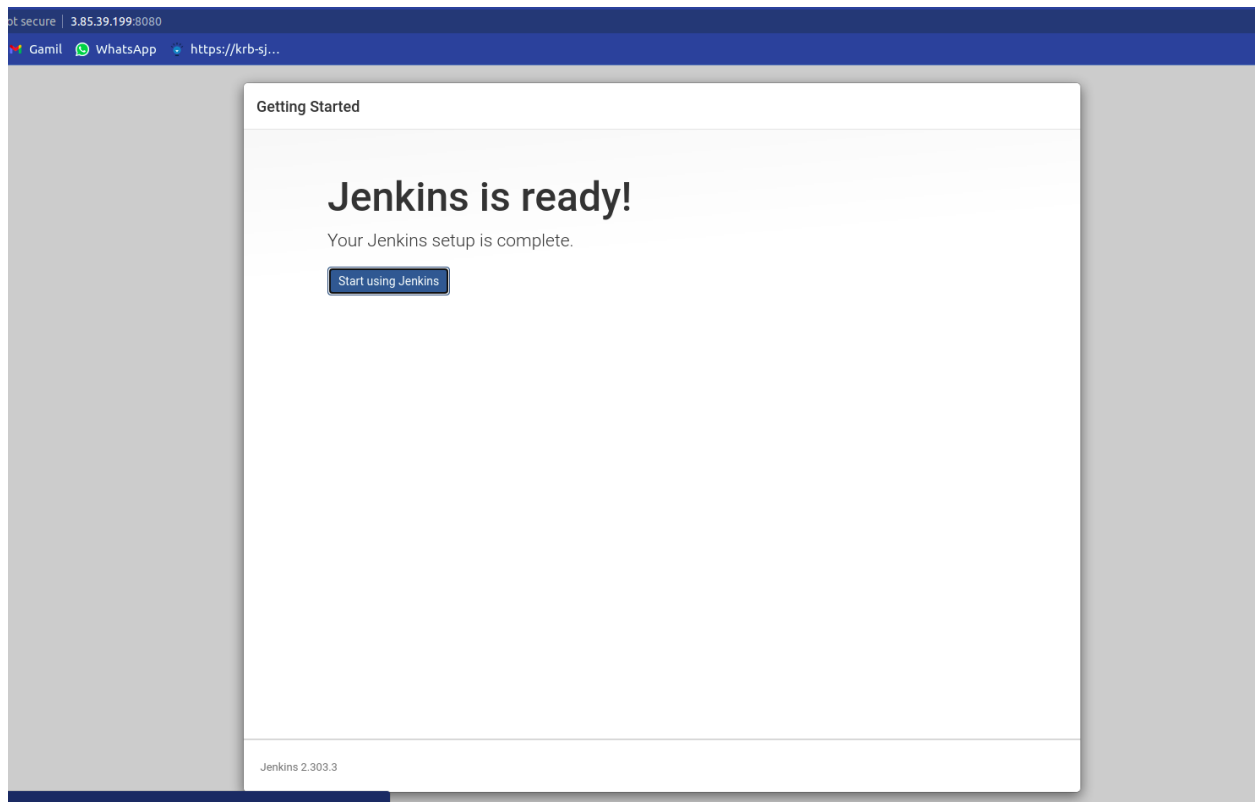


Jenkins Master-Slave Pipeline

Installation of Jenkins:

- *sudo apt-get update*
- *sudo apt install openjdk-8-jdk*
- *wget -q -O - https://pkg.jenkins.io/debian/jenkins.io.key | sudo apt-key add -*
- *sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'*
- *sudo apt update*
- *sudo apt install jenkins*



- Make one Jenkins master instance and 2 Jenkins slave instances on AWS.
- Make one master node and 2 slave nodes on Jenkins.
- Save the Agent.Jar files in respective slave instances in /home/ubuntu/ directory.

The screenshot shows the Jenkins web interface. The top navigation bar includes the Jenkins logo, a search bar, and the user name 'Aryan Kumar'. The left sidebar contains links to 'Dashboard', 'Nodes', 'Back to Dashboard', 'Manage Jenkins', 'New Node', 'Configure Clouds', and 'Node Monitoring'. The main content area displays a table of nodes:

Name	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
master	Linux (amd64)	In sync	5.09 GB	5.09 GB	5.09 GB	0ms
Slave1		N/A	N/A	N/A	N/A	N/A
Slave2		N/A	N/A	N/A	N/A	N/A

Below the table, there is a 'Data obtained' row showing '32 min' for each column. A 'Refresh status' button is located at the bottom right of the table. The left sidebar also shows a 'Build Queue' section with 'No builds in the queue' and a 'Build Executor Status' section with '1 Idle' and '2 Idle' executors.

The screenshot shows the AWS Management Console 'Instances' page. The top navigation bar includes a search bar, the user name 'DK', the region 'N. Virginia', and a 'Support' link. The main content area displays a table of instances:

Name	Instance ID	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IPv6 IPs
Master	i-0c1e4485e0669e3bc	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-3-85-39-199.comp...	3.85.39.199	-	-
Slave1	i-07f097a86d4fab07d	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-54-83-102-94.com...	54.83.102.94	-	-
Slave2	i-07171ab0aa783bc45	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-52-90-224-42.com...	52.90.224.42	-	-

Below the table, there is a 'Loading... (3 processed)' message. The bottom of the page shows a 'Select an instance above' prompt and a close button (X).

- We have to get the project details from GitHub repository (<https://github.com/aryanboss/devopsiiit.git>)
- Install Docker on both slaves
- Configure Jenkins to build the project on the slave 1 if successful, should be built on slave 2.
- Finally, trigger the job using git we-hooks.

