

Author: Anil Kumar Mannem.

Created on: 27/06/24.

Cloud: Microsoft Azure.

Scope: Learning about Jenkins Master Node and Slave Node Configuration in Linux (Ubuntu).

E-Mail ID: mannemanilkumar@hotmail.com

Version: 1.0

URL: <https://portal.azure.com/>

JENKINS MASTER NODE AND SLAVE/WORKER NODE CONFIGURATION IN LINUX (UBUNTU 20.04)

Pre-Requisites

- Resource Group.
- Virtual Network.
- Virtual Machines – 02 No's. (Master Node and Worker Node)

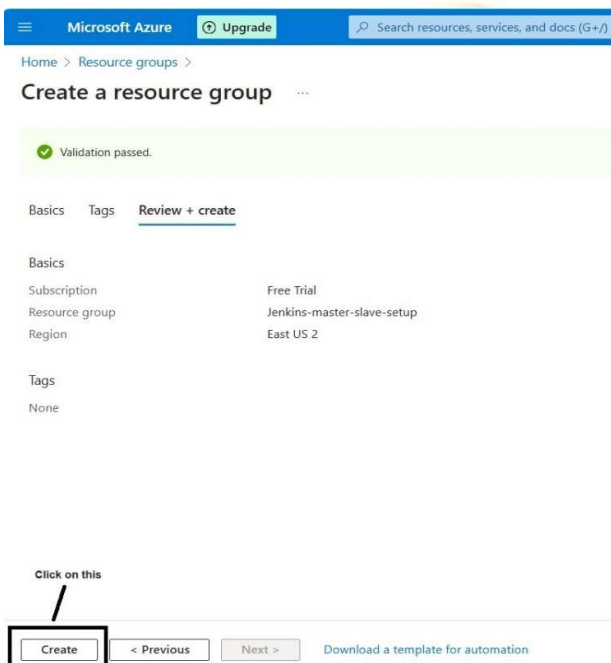
Process Flow at a Glance

- Resource Group creation
 - Virtual Network creation (For Launching VM's)
 - Network Security Group (Allow ports in inbound rules as mentioned below)
 - Virtual Machines – 02 No's (Master Node and Slave/Worker Node) creation
 - Virtual Machine (Master Node) setup
 - For Master Node – Allow port numbers 22 and 8080 in NSG.
 - Java Installation. (To install Jenkins, Java is mandatory)
 - Jenkins Installation.
 - Virtual Machine (Slave/Worker Node) setup
 - For Slave/Worker Node – Allow port number 22.
 - Java Installation. (Only Java is enough)
 - Establishing a connection between Master and slave/worker Node.

Note: The step-by-step process flow is mentioned below with a proper description and screenshot.

In Microsoft Azure, to create any resources first of all we have to create a Resource group.

1. Resource Group Creation



Microsoft Azure Upgrade Search resources, services, and docs (G+J)

Home > Resource groups >

Create a resource group

Validation passed.

Basics Tags Review + create

Basics

Subscription	Free Trial
Resource group	Jenkins-master-slave-setup
Region	East US 2

Tags

None

Click on this

Create < Previous Next > Download a template for automation

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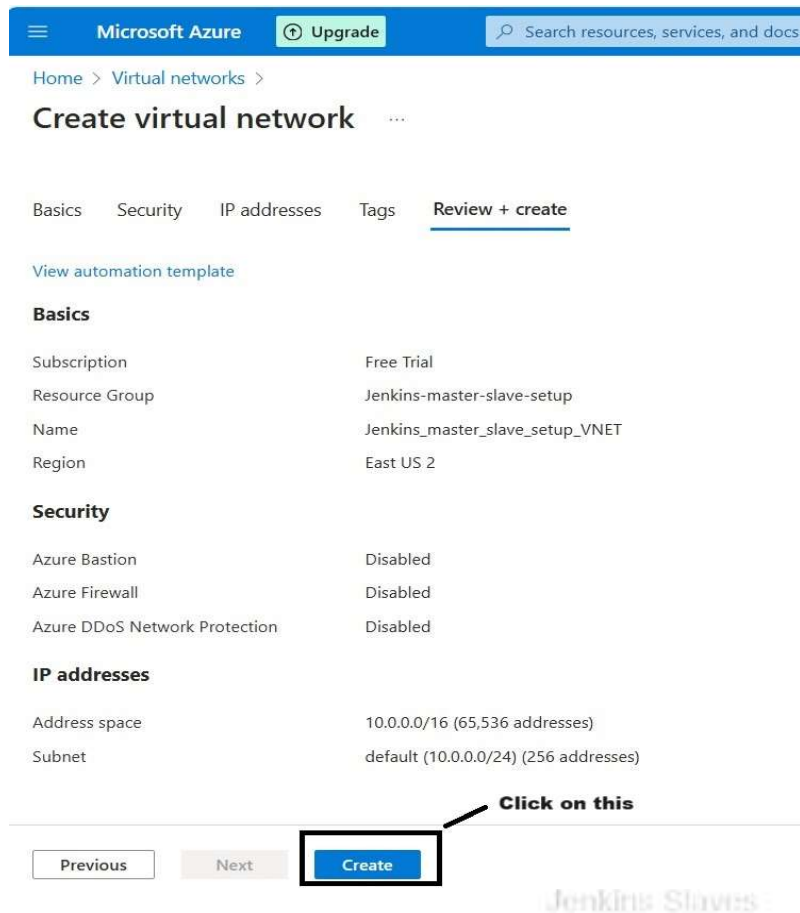
Version: 1.0

URL: https://portal.azure.com/

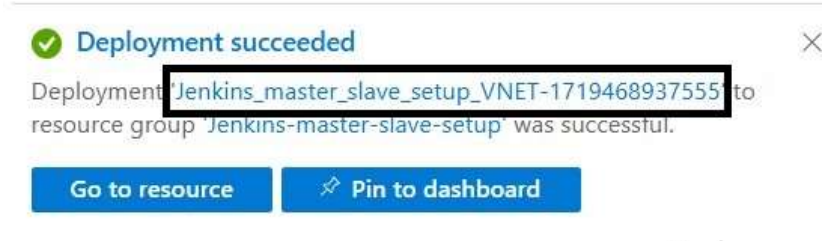
After clicking on **Create** button, resource group will be created. Which we can see in notifications.



1.1 Virtual Network Creation



After clicking on **Create** button, Virtual network will be created. Which we can see in notifications.



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Cloud: Microsoft Azure.

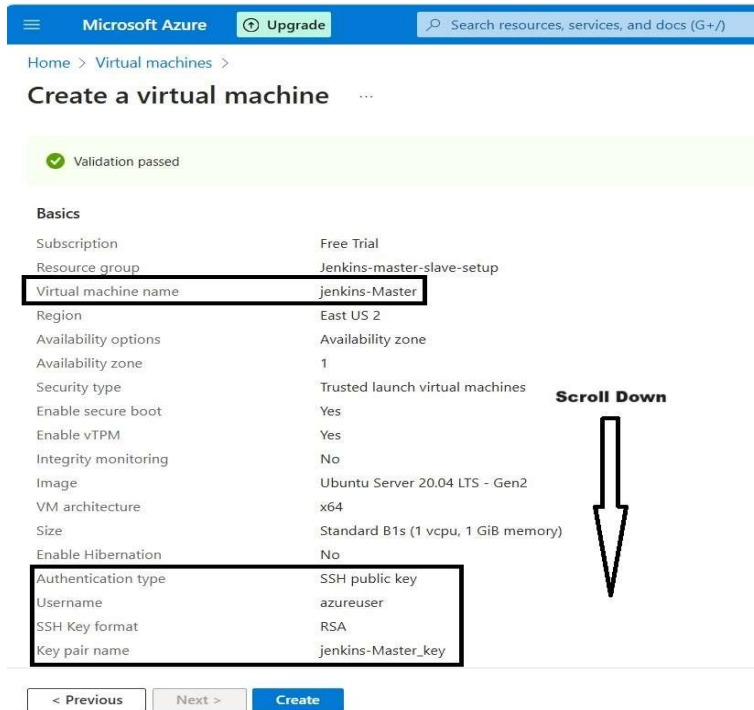
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Version: 1.0

URL: https://portal.azure.com/

1.2 Virtual Machine Creation (Jenkins-Master)



Microsoft Azure Upgrade Search resources, services, and docs (G+/)

Home > Virtual machines >

Create a virtual machine ...

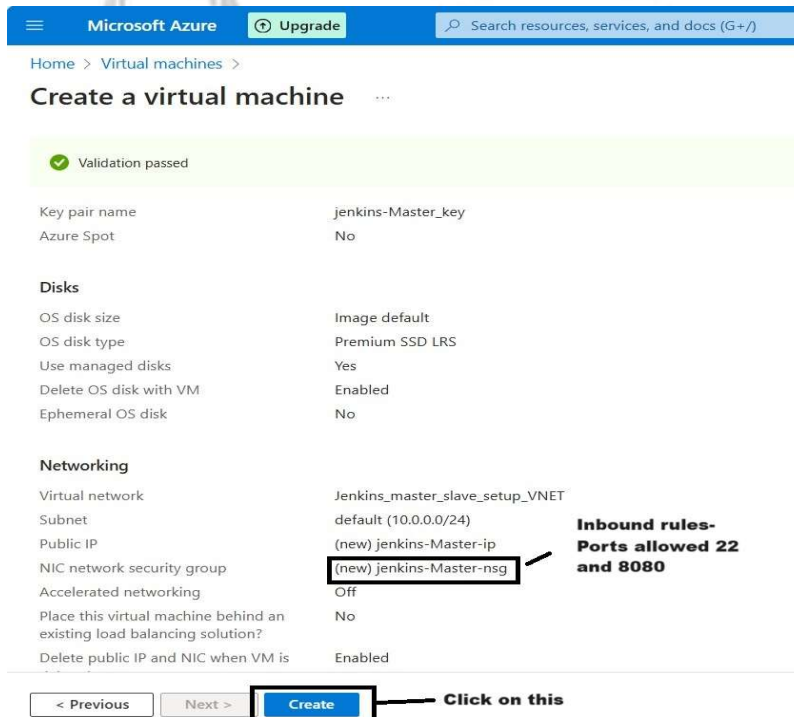
Validation passed

Basics

Subscription	Free Trial
Resource group	Jenkins-master-slave-setup
Virtual machine name	jenkins-Master
Region	East US 2
Availability options	Availability zone
Availability zone	1
Security type	Trusted launch virtual machines
Enable secure boot	Yes
Enable vTPM	Yes
Integrity monitoring	No
Image	Ubuntu Server 20.04 LTS - Gen2
VM architecture	x64
Size	Standard B1s (1 vcpu, 1 GiB memory)
Enable Hibernation	No
Authentication type	SSH public key
Username	azureuser
SSH Key format	RSA
Key pair name	jenkins-Master_key

< Previous Next > Create

After scrolling down, you will see the following page. Finally click on **create** button.



Microsoft Azure Upgrade Search resources, services, and docs (G+/)

Home > Virtual machines >

Create a virtual machine ...

Validation passed

Key pair name: jenkins-Master_key

Azure Spot: No

Disks

OS disk size	Image default
OS disk type	Premium SSD LRS
Use managed disks	Yes
Delete OS disk with VM	Enabled
Ephemeral OS disk	No

Networking

Virtual network	Jenkins_master_slave_setup_VNET
Subnet	default (10.0.0.0/24)
Public IP	(new) jenkins-Master-ip
NIC network security group	(new) jenkins-Master-nsg
Accelerated networking	Off
Place this virtual machine behind an existing load balancing solution?	No
Delete public IP and NIC when VM is	Enabled

< Previous Next > Create Click on this

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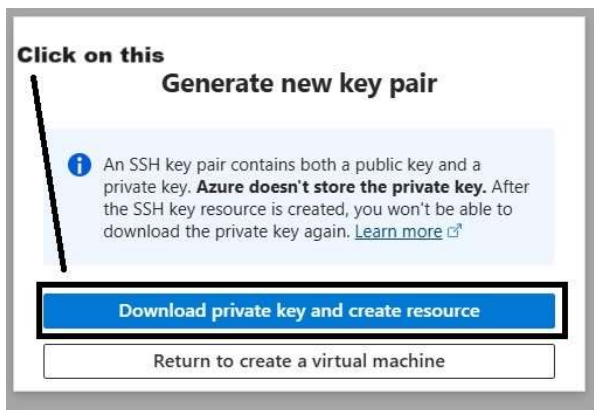
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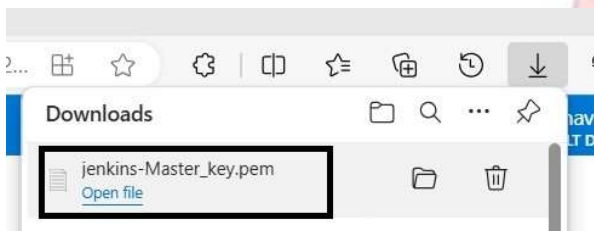
Version: 1.0

URL: <https://portal.azure.com/>

After clicking on **create** button, the following screen will be appeared for downloading key-pair.



We can find the downloaded key in our local system.



After clicking on **Download private key and create resource** button, the following screen will appear.

Delete Cancel Redeploy Download Refresh

✓ Your deployment is complete

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-f... Start time: 6/27/2024, 12:31:49 PM
Subscription: Free Trial Correlation ID: d0bcf994-8c11-452f-8ab1-a36d4129758f
Resource group: [Jenkins-master-slave-setup](#)

Deployment details

Resource	Type	Status	Operation details
✓ jenkins-Master	Microsoft.Compute/virtualMachines	OK	Operation details
✓ jenkins-master463_z1	Microsoft.Network/networkInterfaces	Created	Operation details
✓ jenkins-Master-ip	Microsoft.Network/publicIpAddresses	OK	Operation details
✓ jenkins-Master-nsg	Microsoft.Network/networkSecurityGroups	OK	Operation details

Next steps

[Setup auto-shutdown](#) Recommended
[Monitor VM health, performance and network dependencies](#) Recommended
[Run a script inside the virtual machine](#) Recommended

[Go to resource](#) [Create another VM](#)

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We have created a virtual machine for Jenkins master in Microsoft Azure, same process has to be followed for creating Jenkins Slave/worker node. (Again, we have to follow the procedure mention in **1.2 Virtual Machine Creation (page-3)**- virtual machine name is different). But need to select **SSH public key source** as **Use existing key stored in Azure** and select the stored key name - **jenkins-Master_key**. Which we had created earlier.

Now, we have done with pre-requisites setup (**RG, VNET and VM -02 No's Created**) and it's time to move to further process.

Configuration of Jenkins Master Node and Slave/Worker Node.

Initially, ensure that **SSH (22)** and **JENKINS (8080)** ports was allowed in inbound rules of **NSG** and connect to your Jenkins-Master server for installing the Java and Jenkins software's as mentioned below.

Pre-Requisites for Accessing the Server

1. **Public IP Address** (We can find it Microsoft Azure portal -- VM overview option)
2. **User Name** (While creating VM we can setup, please refer page-3)
3. **.pem key or Password** (Please refer page-3 and page-4, key available in downloads folder)

In **PowerShell** or **Linux terminal** (If trying to connect through virtual box Linux OS) execute the following command where the .pem file is available. (In my case it is available in downloads folder as shown below)

```
PowerShell 7 (x64)
PS C:\Users\manne\Downloads> ls
Directory: C:\Users\manne\Downloads

Mode                LastWriteTime         Length Name
----                -
-a--             27-06-2024   12:31           2494 jenkins-Master_key.pem
```

ssh -i .\jenkins-Master_key.pem azureuser@172.200.217.126

After executing the above command, we can login to that server and screen seems as shown below.

```
PS C:\Users\manne\Downloads> ssh -i .\jenkins-Master_key.pem azureuser@172.200.217.126
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-1064-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Thu Jun 27 10:31:29 UTC 2024

System load:  0.0          Processes:            103
Usage of /:   5.8% of 28.89GB Users logged in:        0
Memory usage: 32%          IPv4 address for eth0: 10.0.0.4
Swap usage:   0%

* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
  just raised the bar for easy, resilient and secure K8s cluster deployment.

https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Applications is not enabled.

13 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

New release '22.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Thu Jun 27 10:26:34 2024 from 183.83.38.142
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

azureuser@jenkins-Master:~$ |
```


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To install Jenkins automatically download the shell script from my GitHub. To download it execute the following command in your terminal.

wget https://raw.githubusercontent.com/mannem302/shell_scripts/main/devops_tools.sh

After executing the above command, devops_tools.sh file will be downloaded in your server and then we have run that script by using the following command.

bash devops_tools.sh

Finally, after executing the above command the following screen will appear. For installing Jenkins. We have to enter Jenkins (Not case sensitive) / 6 as shown in below screenshot.

```
azureuser@jenkins-Master:~$ bash devops_tools.sh
Author: Anil Kumar Mannem.
Below mentioned tool/Software can be installed individually as per your choice
1) Git           8) Tomcat
2) Java          9) Ansible
3) Maven         10) Terraform
4) Grafana       11) SonarQube
5) Docker        12) Prometheus
6) Jenkins       13) Node_Exporter
7) Jfrog         14) Kubernetes
For installation of Git tool you can pass the inputs like - git / Git / GIT / 1 (As per your convenience)
Now you can install any devops tools/softwares by entering their name(Not case-sensitive) or serial number from the above list:6
```

After entering name / Number. Click on **enter** key, the following screen will appear.

```
Now you can install any devops tools/softwares by entering their name(Not case-sensitive) or serial number from the above list:6
You have entered jenkins
Now jenkins will be installed
--2024-06-27 11:00:36-- https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
Resolving pkg.jenkins.io (pkg.jenkins.io)... 146.75.38.133, 2a04:4e42:79::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)|146.75.38.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3175 (3.1K) [application/pgp-keys]
Saving to: '/usr/share/keyrings/jenkins-keyring.asc'
```

Finally, you will get the **Jenkins URL**, **Port number** and **Initial Admin password** as shown below.

```
Please wait process is going on..
#####
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
100  589    0  589    0    0   1673      0  --:--:--  --:--:--  --:--:--  1673
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
100  589    0  589    0    0 58900      0  --:--:--  --:--:--  --:--:-- 58900
Open your browser and Enter http://172.200.217.126 and port number is 8080
You have to execute like this in your browser http://172.200.217.126:8080
b43f4ae118c14e1aaeb6f197e291fc49
```

Copy the above displayed password and paste it in the 'Administrator password' field in your browser
azureuser@jenkins-Master:~\$ |

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Version: 1.0

URL: <https://portal.azure.com/>

Open a web browser with the above URL and copy the above password paste it in the browser.

For **manual installation process**, please refer the following document (**Page1 to Page8**). Copy the link and paste it in your browser.

[https://github.com/mannem302/documents/blob/main/Web%20Application%20\(Jenkins%2CTomcat%2CSonarqube%20and%20Jfrog\).pdf](https://github.com/mannem302/documents/blob/main/Web%20Application%20(Jenkins%2CTomcat%2CSonarqube%20and%20Jfrog).pdf)

Jenkins-Slave Node Configuration

Initially, ensure that **SSH (22)** port was allowed in inbound rules of **NSG** and connect to your Jenkins-Slave server for installing the Java as mentioned below.

Follow the same procedure for connecting to Jenkins-slave server as like Jenkins-master server (page5 & 6)

Note: Same key-pair was used for Jenkins-master node and Jenkins-slave node

But After shell script execution, select the java and click on enter.

```
azureuser@Jenkins-slave:~$ bash devops_tools.sh
Author: Anil Kumar Mannem.
Below mentioned tool/Software can be installed individually as per your choice
1) Git                8) Tomcat
2) Java               9) Ansible
3) Maven             10) Terraform
4) Grafana           11) SonarQube
5) Docker            12) Prometheus
6) Jenkins           13) Node_Exporter
7) Jfrog             14) Kubernetes
For installation of Git tool you can pass the inputs like - git / Git / GIT / 1 (As per your convenience)
Now you can install any devops tools/softwares by entering their name(Not case-sensitive) or serial number from the above list:2
```

Java Installation under progress, as mentioned in below screenshot.

```
For installation of Git tool you can pass the inputs like - git / Git / GIT / 1 (As per your convenience)
Now you can install any devops tools/softwares by entering their name(Not case-sensitive) or serial number from the above list:2
You have entered java
Now java will be installed
Hit:1 http://azure.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://azure.archive.ubuntu.com/ubuntu focal-updates InRelease [128 kB]
```

After successful installation of Java, the screen will appear.

```
Processing triggers for systemd (245.4-4ubuntu3.23) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libgdk-pixbuf2.0-0:amd64 (2.40.0+dfsg-3ubuntu0.5) ...
Java was installed successfully and it's Version is:
openjdk 17.0.11 2024-04-16
OpenJDK Runtime Environment (build 17.0.11+9-Ubuntu-120.04.2)
OpenJDK 64-Bit Server VM (build 17.0.11+9-Ubuntu-120.04.2, mixed mode, sharing)
azureuser@Jenkins-slave:~$
```

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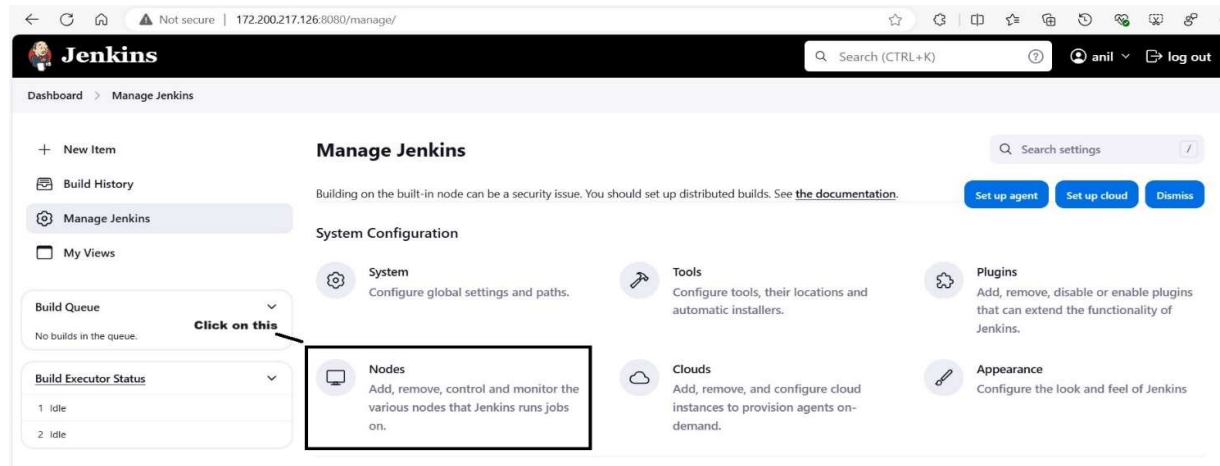
Version: 1.0

URL: https://portal.azure.com/

Finally, setup was ready. Now you can assign the slave node to the master node. Flow as follows.

Open the Jenkins dashboard by using the URL (**http://YOUR IP:8080**) and click on Manage Jenkins.

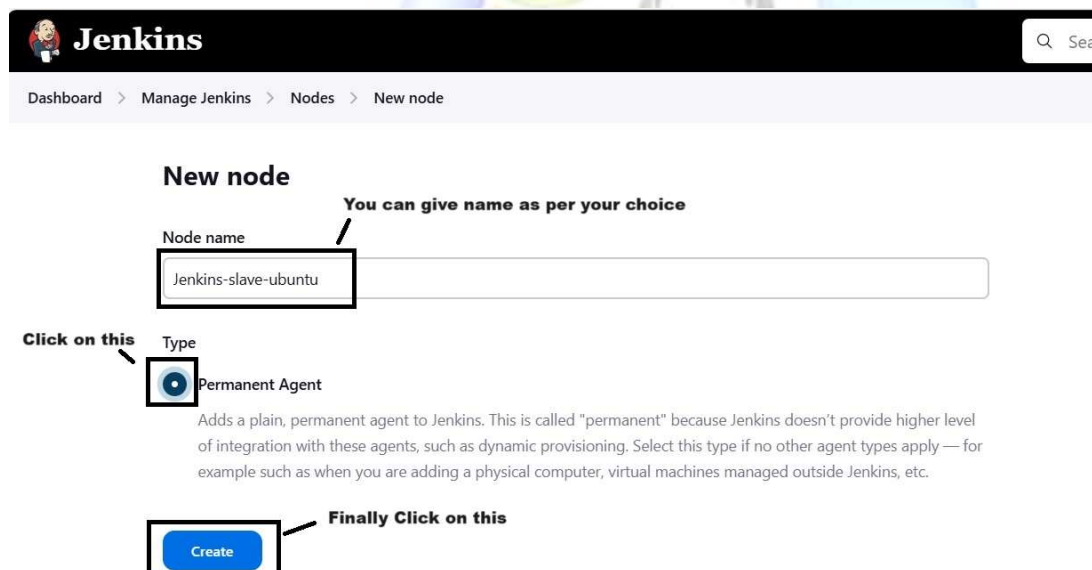
After clicking on that option 'Manage Jenkins' following page will appear.



After clicking on 'Nodes' option, the following page will appear.



After clicking on '+ New Node' button the following page will appear.



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Version: 1.0

URL: https://portal.azure.com/

After clicking on 'Create' button the following page will appear.

Jenkins Search (C)

Dashboard > Manage Jenkins > Nodes >

Name ?
Jenkins-slave-ubuntu

Description ?

Plain text Preview

Change it In place of 1 Number of executors ?
2

Remote root directory ? We can give any path based on permissions
/home/azureuser

Labels ?

Save

Scroll down the page

After scrolling down, you will find the following option, You can give label name and select 'Only build jobs with label expressions matching this node' as shown in following screenshot.

Labels ?

As per your choice

Usage ?

Only build jobs with label expressions matching this node Select this option

Use this node as much as possible

Only build jobs with label expressions matching this node

Launch agent by connecting it to the controller

Again, in that page we have to click on **launch Method** drop down option and select 'Launch agents via SSH'. As shown in the following screenshot.

Usage ?

Only build jobs with label expressions matching this node

Launch method ?

Launch agent by connecting it to the controller

Launch agent by connecting it to the controller

Launch agents via SSH Select this option

Keep this agent online as much as possible

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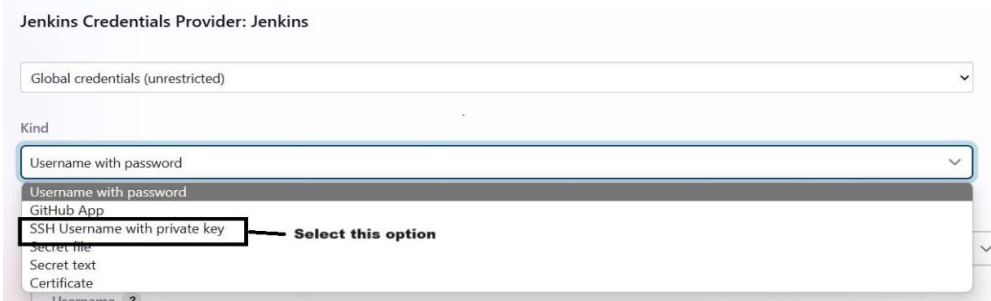
URL: <https://portal.azure.com/>

After selecting that option 'Launch agents via SSH' following page will appear.



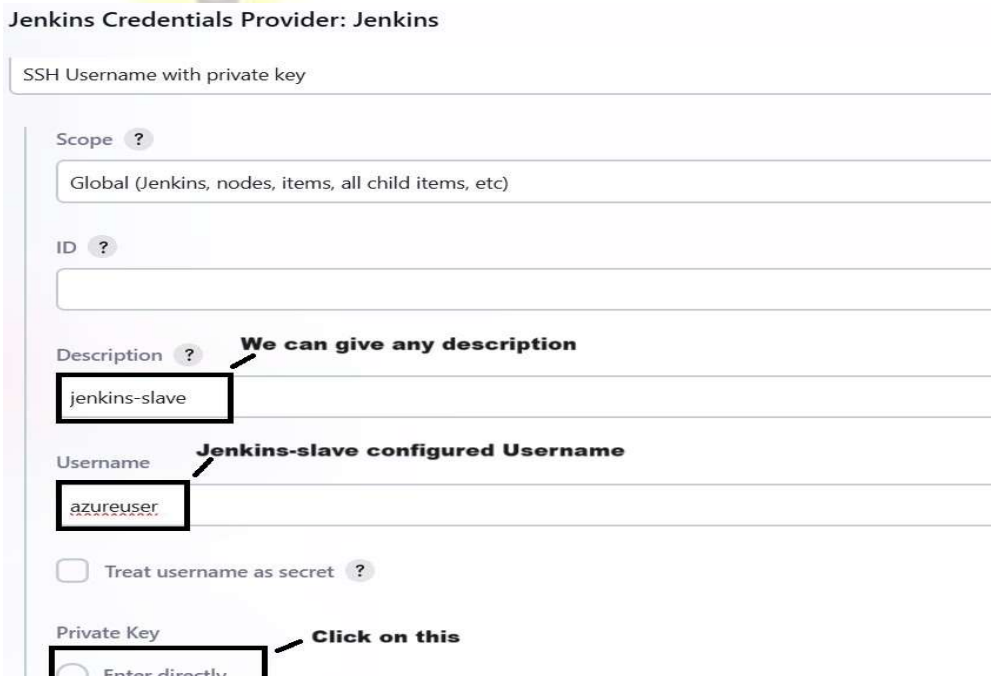
The screenshot shows the 'Launch method' dropdown set to 'Launch agents via SSH'. Below it, the 'Host' field is labeled 'Jenkins-Slave IP Address' and contains the value '172.200.216.149'. The 'Credentials' dropdown is set to '- none -'. A red error message 'Credentials cannot be found' is displayed below the credentials dropdown, with a 'Jenkins' button next to it. The 'Host Key Verification Strategy' is set to 'Known hosts file Verification Strategy'. An 'Advanced' dropdown is at the bottom left.

To configure the credentials for Jenkins-slave server, click on the 'Jenkins' button. Thus, following page will appear.



The screenshot shows the 'Jenkins Credentials Provider: Jenkins' page. The 'Global credentials (unrestricted)' dropdown is selected. The 'Kind' dropdown is set to 'Username with password'. A list of credential types is shown, with 'SSH Username with private key' selected and highlighted. A red arrow points to this option with the text 'Select this option'.

After selecting that option 'SSH Username with private key', the following page will appear.



The screenshot shows the 'Jenkins Credentials Provider: Jenkins' page for 'SSH Username with private key'. The 'Scope' is set to 'Global (Jenkins, nodes, items, all child items, etc)'. The 'ID' field is empty. The 'Description' field is labeled 'We can give any description' and contains the value 'jenkins-slave'. The 'Username' field is labeled 'Jenkins-slave configured Username' and contains the value 'azureuser'. The 'Treat username as secret' checkbox is unchecked. The 'Private Key' section has a radio button selected for 'Enter directly', with a red arrow pointing to it and the text 'Click on this'.

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Created on: 27/06/24.

Cloud: Microsoft Azure.

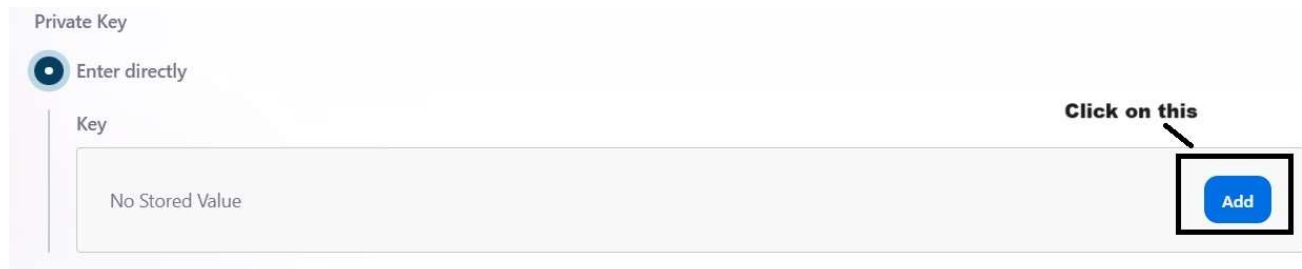
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Version: 1.0

URL: <https://portal.azure.com/>

After entering details like description and username. Click on '**Enter directly**' button, thus the following page will appear.



Private Key

☒ Enter directly

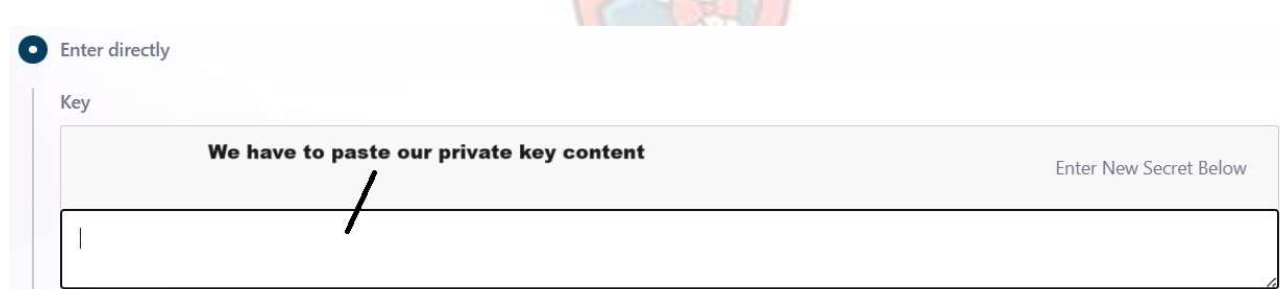
Key

No Stored Value

Click on this

Add

After clicking on '**Add**' button, the following page will appear.



☒ Enter directly

Key

We have to paste our private key content

Enter New Secret Below

After pasting the private key content (In earlier it was downloaded – Refer page-4)



Private Key

☒ Enter directly

Key

Private key file content pasted

Enter New Secret Below

```
swRfhg/RzqGw3VJdrvNk5L9OoWmEsjRxh8vkrZqC5vc18Yl60SD7tdmWh53S0kw7
9AM0u61Q5o0eqv1zhWrc3Xnp0oL4XKZz1/LsgzLmwPW6gPu6F5nx
-----END RSA PRIVATE KEY-----
```

Passphrase

Click on this

Cancel Add

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URL: <https://portal.azure.com/>

After clicking on 'Add' button the following page will be displayed.

Launch method ?

Launch agents via SSH

Host ?

172.200.216.149

Credentials ?

- none -

Select this credentials

- none -

azureuser (Jenkins-slave)

Scroll down

After selecting those credentials, the following page will be displayed.

Credentials ?

azureuser (Jenkins-slave)

+ Add

Host Key Verification Strategy ?

Known hosts file Verification Strategy

Known hosts file Verification Strategy

Manually provided key Verification Strategy

Manually trusted key Verification Strategy

Non verifying Verification Strategy

Select this option

Availability ?

Keep this agent online as much as possible

Node Properties

☐ Disable deferred wipeout on this node ?

Save

Click on this

After clicking on 'Save' button, the following page will appear.

Build Queue

No builds in the queue.

Build Executor Status

Built-In Node

1 Idle

2 Idle

Jenkins-slave-ubuntu

(lauching...)

Agent is lauching

S	Name	Architecture	Health	Free Disk Space	Free Swap Space	Free Temp Space
	Built-In Node	Linux (amd64)	In sync	26.01 GiB	0 B	26.01 GiB
	Jenkins-slave-ubuntu		N/A	N/A	N/A	N/A
	Data obtained	40 min	40 min	40 min	40 min	40 min

Icon: S M L

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After few minutes, you can see the following screen. That Jenkins-Master and Jenkins-Slave nodes are in synchronise state. **Setup was successful.**

Nodes

Setup was Successful

+ New Node

Configure Monitors



S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	Built-In Node	Linux (amd64)	In sync	26.01 GiB	0 B	26.01 GiB	0ms
	Jenkins-slave-ubuntu	Linux (amd64)	In sync	26.54 GiB	0 B	26.54 GiB	116ms
Data obtained		23 sec	23 sec	23 sec	23 sec	23 sec	23 sec

To check the slave setup processing logs, click on 'Jenkins-slave-ubuntu'. The following page will be displayed.

Dashboard > Nodes > Jenkins-slave-ubuntu

Status

Delete Agent

Configure

Build History

Load Statistics

Script Console

Log

System Information

Disconnect

Agent Jenkins-slave-ubuntu

Monitoring Data ▾

Projects tied to Jenkins-slave-ubuntu

None

Click on this

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URL: <https://portal.azure.com/>

After clicking on 'Log' option, the following page will be displayed.

```
Dashboard > Nodes > Jenkins-slave-ubuntu > Log

OpenJDK 64-Bit Server VM (build 17.0.11+9-Ubuntu-120.04.2, mixed mode, sharing)
[06/27/24 14:46:27] [SSH] Checking java version of /home/azureuser/jdk/bin/java
Couldn't figure out the Java version of /home/azureuser/jdk/bin/java
bash: /home/azureuser/jdk/bin/java: No such file or directory

[06/27/24 14:46:27] [SSH] Checking java version of java
[06/27/24 14:46:28] [SSH] java -version returned 17.0.11.
[06/27/24 14:46:28] [SSH] Starting sftp client.
[06/27/24 14:46:28] [SSH] Copying latest remoting.jar...
[06/27/24 14:46:28] [SSH] Copied 1,369,595 bytes.
Expanded the channel window size to 4MB
[06/27/24 14:46:28] [SSH] Starting agent process: cd "/home/azureuser" && java -jar remoting.jar -workDir /home/azureuser -jar-cache
/home/azureuser/remoting/jarCache
Jun 27, 2024 2:46:28 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /home/azureuser/remoting as a remoting work directory
Jun 27, 2024 2:46:28 PM org.jenkinsci.remoting.engine.WorkDirManager setupLogging
INFO: Both error and output logs will be printed to /home/azureuser/remoting
<==[JENKINS REMOTING CAPACITY]==>channel started
Remoting version: 3206.vb_15dcf73f6a_9
Launcher: SSHLauncher
Communication Protocol: Standard in/out
This is a Unix agent
Agent successfully connected and online
```



Scroll up the above page to see the total logs related to slave setup.

YOU HAVE SUCCESSFULLY COMPLETED THE SETUP. NOW YOU CAN BUILD YOUR JOBS IN SLAVE/WORKER NODES.

