To provision a Linux virtual machine (VM) in the Azure portal, follow these steps:

1. \*\*Log in to the Azure Portal:\*\*

- Go to [Azure Portal](https://portal.azure.com/) and log in with your Azure account credentials.

2. \*\*Create a New Resource:\*\*

- Click on the "Create a resource" button in the left-hand menu.

3. \*\*Search for Virtual Machine:\*\*

- In the "Search the Marketplace" bar, type "Virtual Machine" and select it from the results.

4. \*\*Basics Tab:\*\*

- \*\*Subscription:\*\* Select the subscription you want to use.

- \*\*Resource Group:\*\* Select an existing resource group or create a new one.

- \*\*Virtual Machine Name:\*\* Enter a name for your VM.

- \*\*Region:\*\* Choose the region where you want to deploy the VM.

- \*\*Availability Options:\*\* Choose an availability set or zone if required.

- \*\*Image:\*\* Click on the drop-down and select a Linux distribution (e.g., Ubuntu, CentOS, etc.).

- \*\*Size:\*\* Choose a VM size that suits your needs.

- \*\*Authentication Type:\*\* Select SSH public key or password.

- If using SSH public key, paste your public key.

- If using a password, enter and confirm a strong password.

- \*\*Username:\*\* Enter a username for the VM.

5. \*\*Disks Tab:\*\*

- Choose the OS disk type (Standard HDD, Standard SSD, or Premium SSD).

- You can also add data disks if needed.

6. \*\*Networking Tab:\*\*

- Configure the virtual network, subnet, public IP, and network security group (NSG) settings.

- Leave the default settings if you’re not sure.

7. \*\*Management Tab:\*\*

- Configure monitoring and management options such as Boot diagnostics, OS guest diagnostics, Auto-shutdown, etc.

8. \*\*Advanced Tab:\*\*

- Add any additional configuration settings if needed, such as custom data, extensions, etc.

9. \*\*Tags Tab:\*\*

- Add tags to organize your resources if desired.

10. \*\*Review + Create:\*\*

- Review all the settings. If everything looks good, click on the "Create" button.

Azure will start provisioning your Linux VM. Once the deployment is complete, you can access it via SSH using the public IP address and the username/password or SSH key you specified.