

# Creation of VM on Azure and installation of apache web server

## Creating Virtual Machine

This screenshot shows the 'Create a virtual machine' page in the Azure portal, specifically the 'Basics' tab. The left sidebar shows the 'Virtual machines' section with a 'No virtual machines to display' message. The main content area is titled 'Create a virtual machine' and includes tabs for Basics, Disks, Networking, Management, Advanced, Tags, and Review + create. The 'Basics' tab is active, showing the following configuration:

- Project details:** Subscription is 'Azure for Students' and Resource group is 'myResourceGroup'.
- Instance details:** Virtual machine name is 'assn3VM', Region is '(US) Central US', and Availability options are 'No infrastructure redundancy required'.

At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next : Disks >'. The Windows taskbar at the bottom shows the time as 11:48 AM on 15-12-2021.

This screenshot shows the 'Create a virtual machine' page in the Azure portal, specifically the 'Administrator account' tab. The left sidebar is the same as the previous screenshot. The main content area is titled 'Create a virtual machine' and includes tabs for Basics, Disks, Networking, Management, Advanced, Tags, and Review + create. The 'Administrator account' tab is active, showing the following configuration:

- Authentication type:** 'SSH public key' is selected.
- Username:** 'azureuser'.
- SSH public key source:** 'Generate new key pair'.
- Key pair name:** 'assn3VM\_key'.
- Inbound port rules:** 'Public inbound ports' is set to 'Allow selected ports', and 'Select inbound ports' is 'SSH (22)'.

At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next : Disks >'. The Windows taskbar at the bottom shows the time as 11:48 AM on 15-12-2021.

Inbox (11,354) - bagladiyango | x | Group ID 51 to 54 and 57,58 : F... | Assignment 1 | x | Create a virtual machine - Micro... | +

portal.azure.com/#create/Microsoft.VirtualMachine

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

1032180739@mitwpu.a... MAHARASHTRA ACADEMY OF E...

Home > Virtual machines >

## Virtual machines

Maharashtra Academy Of Engineering And Educat...

+ Create Switch to classic

Filter for any field...

Name ↑ Subscription ↑

No virtual machines to display

Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.

Learn more about Windows virtual machines

Learn more about Linux virtual machines

## Create a virtual machine

Username \* azureuser ✓

SSH public key source Generate new key pair ✓

Key pair name \* assn3VM\_key ✓

### Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports \* ☐ None ☒ Allow selected ports

Select inbound ports \* HTTP (80), HTTPS (443), SSH (22) ✓

**This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.**

Review + create < Previous Next : Disks >

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portal.azure.com/#create/Microsoft.VirtualMachine

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## Virtual machines

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+ Create Switch to classic

Filter for any field...

Name ↑ Subscription ↑

No virtual machines to display

Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.

Learn more about Windows virtual machines

Learn more about Linux virtual machines

## Create a virtual machine

Basics Disks Networking Management Advanced Tags Review + create

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. [Learn more](#)

### Disk options

OS disk type \* Premium SSD (locally-redundant storage) ✓

Encryption type \* (Default) Encryption at-rest with a platform-managed key ✓

Enable Ultra Disk compatibility ☐ Ultra disk is supported in Availability Zone(s) 1,2,3 for the selected VM size Standard\_B2s.

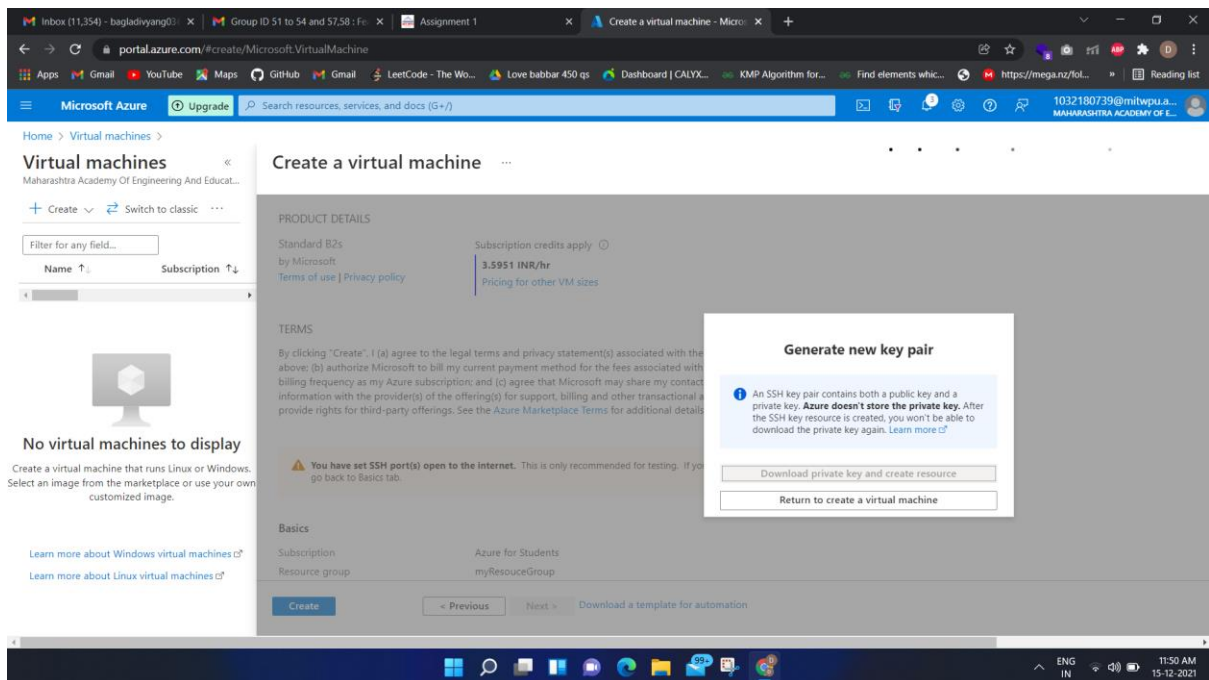
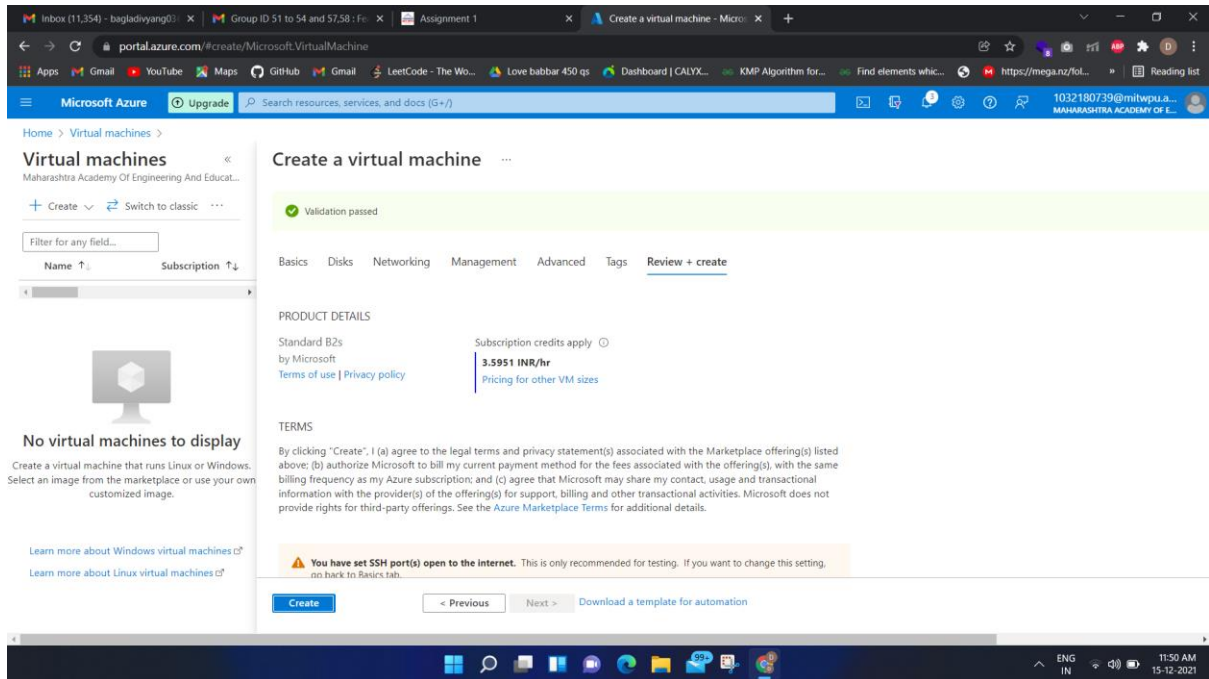
### Data disks

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

LUN	Name	Size (GiB)	Disk type	Host caching
-----	------	------------	-----------	--------------

[Create and attach a new disk](#) [Attach an existing disk](#)

Review + create < Previous Next : Networking >



Inbox (11,354) - bagladiy... x Group ID 51 to 54 and 57... x Assignment 1 x CreateVm-Canonical.Ubuntu... x Fastag Disclaimer Portal L... x FASTag x +

portal.azure.com/#blade/HubsExtension/DeploymentDetailsBlade/overview/id/%2Fsubscriptions%2F2f3c4bf3-324a-42f9-a0ba-bb55d3b06558%2FresourceGroups%2FmyRe...

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

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### CreateVm-Canonical.UbuntuServer-18\_04-lts-gen2-20211215114800 | Overview

Deployment

Search (Ctrl+J) Delete Cancel Redeploy Refresh

We'd love your feedback! →

#### Deployment is in progress

Deployment name: CreateVm-Canonical.UbuntuServer-18\_04-lts-g... Start time: 12/15/2021, 11:50:48 AM  
Subscription: Azure for Students Correlation ID: 079d7c2c-434a-4eb2-935a-1a6808e059fd  
Resource group: myResourceGroup

##### Deployment details (Download)

Resource	Type	Status	Operation details
assn3vm638	Microsoft.Network/networkInterf...	Created	<a href="#">Operation details</a>
assn3VM-ip	Microsoft.Network/publicIpAddre...	OK	<a href="#">Operation details</a>
assn3VM-nsg	Microsoft.Network/networkSecur...	OK	<a href="#">Operation details</a>

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assn3VM\_key.pem Show all

ENG IN 11:51 AM 15-12-2021

Inbox (11,354) - bagladiy... x Group ID 51 to 54 and 57... x Assignment 1 x assn3VM - Microsoft Azure x Fastag Disclaimer Portal L... x FASTag x +

portal.azure.com/#@mitwpu.ac.in/resource/subscriptions/2f3c4bf3-324a-42f9-a0ba-bb55d3b06558/resourcegroups/myResourceGroup/providers/Microsoft.Compute/virtual...

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

1032180739@mitwpu.a... MAHARASHTRA ACADEMY OF E...

### assn3VM

Virtual machine

Search (Ctrl+J) Connect Start Restart Stop Capture Delete Refresh Open in mobile CLI / PS Feedback

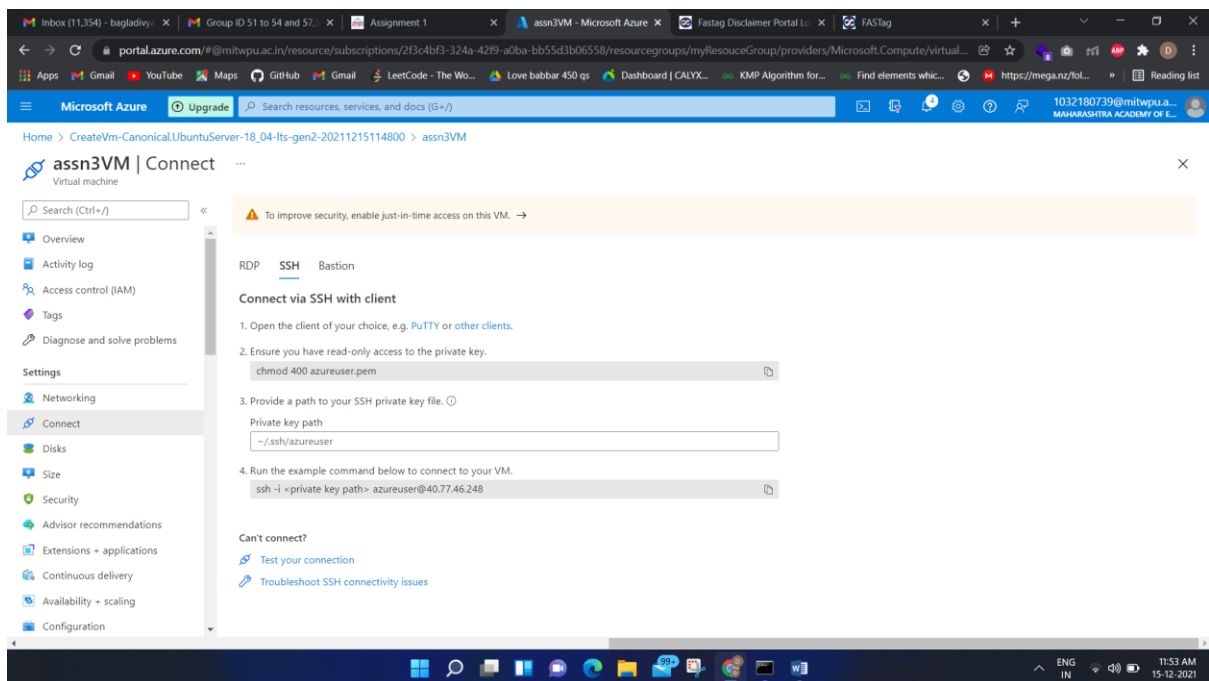
#### Essentials

Resource group (Move)	myResourceGroup	Operating system	Linux (ubuntu 18.04)
Status	Running	Size	Standard B2s (2 vcpus, 4 GiB memory)
Location	Central US	Public IP address	40.77.46.248
Subscription (Move)	Azure for Students	Virtual network/subnet	myResourceGroup-vnet/default
Subscription ID	2f3c4bf3-324a-42f9-a0ba-bb55d3b06558	DNS name	Not configured
Tags (Edit)	<a href="#">Click here to add tags</a>		

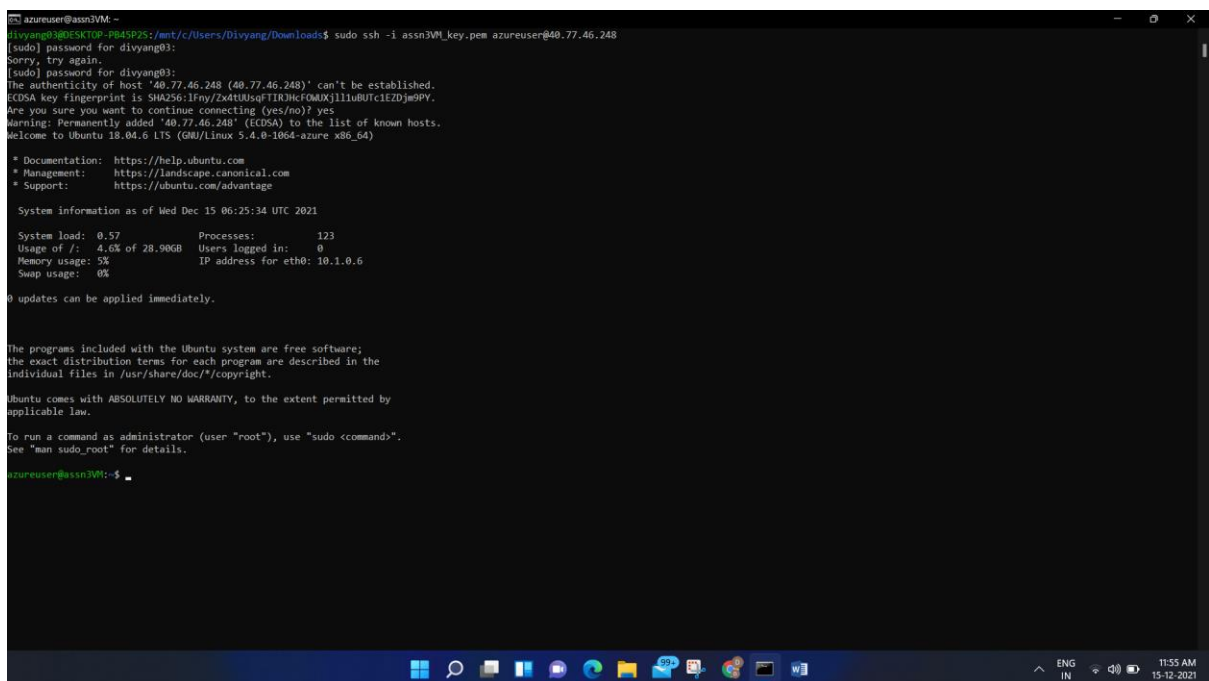
#### Properties

Virtual machine		Networking	
Computer name	assn3VM	Public IP address	40.77.46.248
Health state	-	Public IP address (IPv6)	-
Operating system	Linux (ubuntu 18.04)	Private IP address	10.1.0.6
Publisher	Canonical	Private IP address (IPv6)	-
Offer	UbuntuServer	Virtual network/subnet	myResourceGroup-vnet/default
Plan	18_04-lts-gen2	DNS name	<a href="#">Configure</a>
VM generation	V2		
Agent status	Ready	Size	Standard B2s

ENG IN 11:52 AM 15-12-2021



## Connecting to virtual machine



```
azureuser@assn3VM: ~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following package was automatically installed and is no longer required:
  linux-headers-4.15.0-163
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.2-0 ssl-cert
Suggested packages:
  www-browser apache2-doc apache2-suexec-pristine | apache2-suexec-custom openssl-blacklist
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.2-0 ssl-cert
0 upgraded, 10 newly installed, 0 to remove and 13 not upgraded.
Need to get 1411 kB/1730 kB of archives.
After this operation, 6994 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://azure.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2-bin amd64 2.4.29-1ubuntu4.20 [1071 kB]
Get:2 http://azure.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2-utils amd64 2.4.29-1ubuntu4.20 [84.2 kB]
Get:3 http://azure.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2-data all 2.4.29-1ubuntu4.20 [168 kB]
Get:4 http://azure.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2 amd64 2.4.29-1ubuntu4.20 [95.1 kB]
Fetched 1411 kB in 0s (18.8 MB/s)
Preconfiguring packages ...
Selecting previously unselected package libapr1:amd64.
(Reading database ... 76990 files and directories currently installed.)
Preparing to unpack .../0-libapr1_1.6.3-2_amd64.deb ...
Unpacking libapr1:amd64 (1.6.3-2) ...
Selecting previously unselected package libaprutil1:amd64.
Preparing to unpack .../1-libaprutil1_1.6.1-2_amd64.deb ...
Unpacking libaprutil1:amd64 (1.6.1-2) ...
Selecting previously unselected package libaprutil1-dbd-sqlite3:amd64.
Preparing to unpack .../2-libaprutil1-dbd-sqlite3_1.6.1-2_amd64.deb ...
Unpacking libaprutil1-dbd-sqlite3:amd64 (1.6.1-2) ...
Selecting previously unselected package libaprutil1-ldap:amd64.
Preparing to unpack .../3-libaprutil1-ldap_1.6.1-2_amd64.deb ...
Unpacking libaprutil1-ldap:amd64 (1.6.1-2) ...
Selecting previously unselected package liblua5.2-0:amd64.
Preparing to unpack .../4-liblua5.2-0_5.2.4-1build1_amd64.deb ...
Unpacking liblua5.2-0:amd64 (5.2.4-1build1) ...
Selecting previously unselected package apache2-bin.
Preparing to unpack .../5-apache2-bin_2.4.29-1ubuntu4.20_amd64.deb ...
Unpacking apache2-bin (2.4.29-1ubuntu4.20) ...
Selecting previously unselected package apache2-utils.
Preparing to unpack .../6-apache2-utils_2.4.29-1ubuntu4.20_amd64.deb ...
Unpacking apache2-utils (2.4.29-1ubuntu4.20) ...
Selecting previously unselected package apache2-data.
Preparing to unpack .../7-apache2-data_2.4.29-1ubuntu4.20_all.deb ...
Unpacking apache2-data (2.4.29-1ubuntu4.20) ...
Selecting previously unselected package apache2.
Preparing to unpack .../8-apache2_2.4.29-1ubuntu4.20_amd64.deb ...
Unpacking apache2 (2.4.29-1ubuntu4.20) ...
Setting up libapr1:amd64 (1.6.3-2) ...
Setting up libaprutil1:amd64 (1.6.1-2) ...
Setting up libaprutil1-dbd-sqlite3:amd64 (1.6.1-2) ...
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Setting up apache2-data (2.4.29-1ubuntu4.20) ...
Setting up apache2 (2.4.29-1ubuntu4.20) ...
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for libc-bin (2.27-3ubuntu1.4) ...
Processing triggers for systemd (237-3ubuntu1.0.52) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Processing triggers for ufw (0.36-0ubuntu0.18.04.2) ...
Processing triggers for ureadahead (0.100.0-21) ...
azureuser@assn3VM:~$ sudo systemctl status apache2
* apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Drop-In: /lib/systemd/system/apache2.service.d
            └─apache2-systemd.conf
   Active: active (running) since Wed 2021-12-15 06:32:19 UTC; 16s ago
     Main PID: 3162 (apache2)
       Tasks: 55 (limit: 4096)
        CGroup: /system.slice/apache2.service
                └─3162 /usr/sbin/apache2 -k start
                  3164 /usr/sbin/apache2 -k start
                  3165 /usr/sbin/apache2 -k start

Dec 15 06:32:19 assn3VM systemd[1]: Starting The Apache HTTP Server...
Dec 15 06:32:19 assn3VM systemd[1]: Started The Apache HTTP Server.
azureuser@assn3VM:~$
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0 upgraded, 10 newly installed, 0 to remove and 13 not upgraded.
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After this operation, 6994 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
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Get:3 http://azure.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2-data all 2.4.29-1ubuntu4.20 [168 kB]
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Selecting previously unselected package libaprutil1:amd64.
Preparing to unpack .../1-libaprutil1_1.6.1-2_amd64.deb ...
Unpacking libaprutil1:amd64 (1.6.1-2) ...
Selecting previously unselected package libaprutil1-dbd-sqlite3:amd64.
Preparing to unpack .../2-libaprutil1-dbd-sqlite3_1.6.1-2_amd64.deb ...
Unpacking libaprutil1-dbd-sqlite3:amd64 (1.6.1-2) ...
Selecting previously unselected package libaprutil1-ldap:amd64.
Preparing to unpack .../3-libaprutil1-ldap_1.6.1-2_amd64.deb ...
Unpacking libaprutil1-ldap:amd64 (1.6.1-2) ...
Selecting previously unselected package liblua5.2-0:amd64.
Preparing to unpack .../4-liblua5.2-0_5.2.4-1build1_amd64.deb ...
Unpacking liblua5.2-0:amd64 (5.2.4-1build1) ...
Selecting previously unselected package apache2-bin.
Preparing to unpack .../5-apache2-bin_2.4.29-1ubuntu4.20_amd64.deb ...
Unpacking apache2-bin (2.4.29-1ubuntu4.20) ...
Selecting previously unselected package apache2-utils.
Preparing to unpack .../6-apache2-utils_2.4.29-1ubuntu4.20_amd64.deb ...
Unpacking apache2-utils (2.4.29-1ubuntu4.20) ...
Selecting previously unselected package apache2-data.
Preparing to unpack .../7-apache2-data_2.4.29-1ubuntu4.20_all.deb ...
Unpacking apache2-data (2.4.29-1ubuntu4.20) ...
Selecting previously unselected package apache2.
Preparing to unpack .../8-apache2_2.4.29-1ubuntu4.20_amd64.deb ...
Unpacking apache2 (2.4.29-1ubuntu4.20) ...
Setting up libapr1:amd64 (1.6.3-2) ...
Setting up libaprutil1:amd64 (1.6.1-2) ...
Setting up libaprutil1-dbd-sqlite3:amd64 (1.6.1-2) ...
Setting up libaprutil1-ldap:amd64 (1.6.1-2) ...
Setting up liblua5.2-0:amd64 (5.2.4-1build1) ...
Setting up apache2-bin (2.4.29-1ubuntu4.20) ...
Setting up apache2-utils (2.4.29-1ubuntu4.20) ...
Setting up apache2-data (2.4.29-1ubuntu4.20) ...
Setting up apache2 (2.4.29-1ubuntu4.20) ...
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for libc-bin (2.27-3ubuntu1.4) ...
Processing triggers for systemd (237-3ubuntu1.0.52) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Processing triggers for ufw (0.36-0ubuntu0.18.04.2) ...
Processing triggers for ureadahead (0.100.0-21) ...
azureuser@assn3VM:~$ sudo systemctl status apache2
* apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Drop-In: /lib/systemd/system/apache2.service.d
            └─apache2-systemd.conf
   Active: active (running) since Wed 2021-12-15 06:32:19 UTC; 16s ago
     Main PID: 3162 (apache2)
       Tasks: 55 (limit: 4096)
        CGroup: /system.slice/apache2.service
                └─3162 /usr/sbin/apache2 -k start
                  3164 /usr/sbin/apache2 -k start
                  3165 /usr/sbin/apache2 -k start

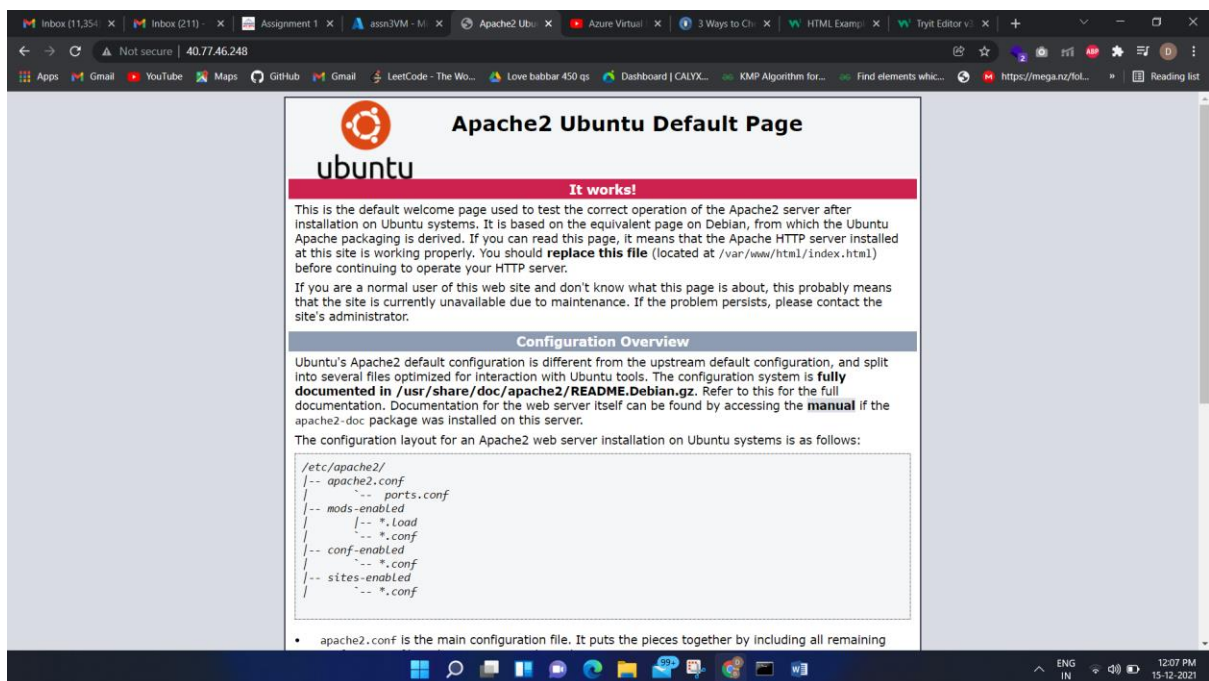
Dec 15 06:32:19 assn3VM systemd[1]: Starting The Apache HTTP Server...
Dec 15 06:32:19 assn3VM systemd[1]: Started The Apache HTTP Server.
azureuser@assn3VM:~$
```



```
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module ssl.
Enabling module rewrite.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for libc-bin (2.27-3ubuntu1.4) ...
Processing triggers for systemd (237-3ubuntu0.52) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Processing triggers for ufw (0.36-0ubuntu0.18.04.2) ...
Processing triggers for ureadahead (0.100.0-21) ...
azureuser@assn3VM:~$ sudo systemctl status apache2
* apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Drop-In: /lib/systemd/system/apache2.service.d
            └─apache2-systemd.conf
   Active: active (running) since Wed 2021-12-15 06:32:19 UTC; 16s ago
     Main PID: 3162 (apache2)
        Tasks: 55 (limit: 4670)
      CGroup: /system.slice/apache2.service
              └─3162 /usr/sbin/apache2 -k start
                 3164 /usr/sbin/apache2 -k start
                 3165 /usr/sbin/apache2 -k start

Dec 15 06:32:19 assn3VM systemd[1]: Starting The Apache HTTP Server...
Dec 15 06:32:19 assn3VM systemd[1]: Started The Apache HTTP Server.
azureuser@assn3VM:~$ cd /var/www/html/
azureuser@assn3VM:~$ ls
index.html
azureuser@assn3VM:~$
```

Apache server successfully installed:-



Copying a file that needs to be host on apache server from local computer to vm

```
Command Prompt
Microsoft Windows [Version 10.0.22000.348]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Divyang>cd Downloads

C:\Users\Divyang\Downloads>scp -i assn3VM_key.pem demo.html azureuser@40.77.46.248:/home/azureuser/
The authenticity of host '40.77.46.248 (40.77.46.248)' can't be established.
ECDSA key fingerprint is SHA256:1Fny/Zx4tUUsqFTIRJHcFOWUXjll1uBUTc1EZDjm9PY.
Are you sure you want to continue connecting (yes/no/[fingerprint])?
Warning: Permanently added '40.77.46.248' (ECDSA) to the list of known hosts.
demo.html 100% 161 0.6KB/s 00:00

C:\Users\Divyang\Downloads>
```

```
azureuser@assn3VM: /var/www/html
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
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● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Drop-In: /lib/systemd/system/apache2.service.d
            └─apache2-systemd.conf
   Active: active (running) since Wed 2021-12-15 06:32:19 UTC; 16s ago
     Main PID: 3162 (apache2)
       Tasks: 55 (limit: 4678)
      CGroup: /system.slice/apache2.service
              └─3162 /usr/sbin/apache2 -k start
                 3164 /usr/sbin/apache2 -k start
                 3165 /usr/sbin/apache2 -k start

Dec 15 06:32:19 assn3VM systemd[1]: Starting The Apache HTTP Server...
Dec 15 06:32:19 assn3VM systemd[1]: Started The Apache HTTP Server.
azureuser@assn3VM:~$ cd /var/www/html/
azureuser@assn3VM:/var/www/html$ ls
index.html
azureuser@assn3VM:/var/www/html$ sudo mv /home/azureuser/frmo.html ./
mv: cannot stat '/home/azureuser/frmo.html': No such file or directory
azureuser@assn3VM:/var/www/html$ sudo mv /home/azureuser/demo.html ./
demo.html
azureuser@assn3VM:/var/www/html$ ls
demo.html index.html
azureuser@assn3VM:/var/www/html$
```



Our html page successfully uploaded on server as shown below : -

