

## Module 5: Assignment – 1

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# Create a virtual machine ...

Validation passed

[Help me create a low cost VM](#)[Help me create a VM optimized for high availability](#)[Help me choose the](#)[Basics](#)[Disks](#)[Networking](#)[Management](#)[Monitoring](#)[Advanced](#)[Tags](#)[Review + create](#)

## Price

1 X Standard B1s

by Microsoft

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Subscription credits apply ⓘ

**0.8652 INR/hr**[Pricing for other VM sizes](#)

## TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Name

Preferred e-mail address

Preferred phone number



**You have set SSH port(s) open to the internet.** This is only recommended for testing. If you want to change this setting, go back to Basics tab.

## Basics

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docker-vm

Virtual machine

Search

◊ ◀ ▶

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Connect

Networking

Settings

Availability + scale

Security

Backup + disaster recovery

Operations

Monitoring

Automation

Help

⚠ docker-vm virtual machine agent status is not ready. Troubleshoot the issue →

Help me copy this VM in any region

Connect ◊ ▶ Start ↺ Restart ◻ Stop ⌚ Hibernate 📷 Capture ◊ 🗑 Delete ↻ Refresh ⋮

Essentials

Resource group [\(move\)](#)  
[DOCKER](#)

Status  
Running

Location  
East US (Zone 1)

Subscription [\(move\)](#)  
[Free Trial](#)

Subscription ID  
d5c8b5df-61ed-4f8a-83d5-e2ce4d3df7f7

Availability zone  
1

Tags [\(edit\)](#)  
[Add tags](#)

Operating system  
Linux

Size  
Standard 1 GiB memory)

Public IP address  
[20.83.172.185](#)

Virtual network/subnet  
[docker-vm-vnet/default](#)

DNS name  
[Not configured](#)

Health state  
-

Time created  
13/03/2025, 08:13 UTC

[JSON View](#)

Properties

Monitoring

Capabilities (7)

Recommendations

Tutorials

Virtual machine

Computer name  
docker-vm

Operating system  
Linux

Networking

Public IP address  
[20.83.172.185](#) ( Network [docker-vm-vnet/default](#) interface [vm601\\_z1](#) )

Public IP address  
-

```
rabi@docker-vm: ~  
System information as of Thu Mar 13 08:15:18 UTC 2025  
  
System load: 0.34          Processes:             110  
Usage of /:  5.4% of 28.02GB Users logged in:        0  
Memory usage: 27%          IPv4 address for eth0: 10.0.0.4  
Swap usage:  0%  
  
Expanded Security Maintenance for Applications is not enabled.  
  
0 updates can be applied immediately.  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
rabi@docker-vm:~$
```

```

rabi@docker-vm: ~
Get:22 http://azure.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:23 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [30.1 kB]
Get:24 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [5884 B]
Get:25 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:26 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [552 B]
Get:27 http://azure.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 B]
Get:28 http://azure.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [112 B]
Get:29 http://azure.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [14.2 kB]
Get:30 http://azure.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [12.1 kB]
Get:31 http://azure.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [20.0 kB]
Get:32 http://azure.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1104 B]
Get:33 http://azure.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [212 B]
Get:34 http://azure.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
Get:35 http://azure.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:36 http://azure.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:37 http://azure.archive.ubuntu.com/ubuntu noble-security/main amd64 Packages [670 kB]
Get:38 http://azure.archive.ubuntu.com/ubuntu noble-security/main Translation-en [128 kB]
Get:39 http://azure.archive.ubuntu.com/ubuntu noble-security/main amd64 Components [9008 B]
Get:40 http://azure.archive.ubuntu.com/ubuntu noble-security/universe amd64 Packages [819 kB]
Get:41 http://azure.archive.ubuntu.com/ubuntu noble-security/universe Translation-en [177 kB]
Get:42 http://azure.archive.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.0 kB]
Get:43 http://azure.archive.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [13.5 kB]
Get:44 http://azure.archive.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [726 kB]
Get:45 http://azure.archive.ubuntu.com/ubuntu noble-security/restricted Translation-en [145 kB]
Get:46 http://azure.archive.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:47 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [26.2 kB]
Get:48 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse Translation-en [4892 B]
Get:49 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Get:50 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [356 B]
92% [5 Packages store 0 B]

```

```

rabi@docker-vm: ~
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
rabi@docker-vm:~$ docker pull hshar/webapp
Using default tag: latest
latest: Pulling from hshar/webapp
a48c500ed24e: Pull complete
1e1de00ff7e1: Pull complete
0330ca45a200: Pull complete
471db38bcfbf: Pull complete
0b4aba487617: Pull complete
c2e32ec79cfd: Pull complete
a18d6ba75273: Pull complete
4c2cc0ff3ce8: Pull complete
Digest: sha256:3c7cbcab1a26c01410dcc9cbc57252b50d9ed2f31a2dc24e3f066c61b88e839b
Status: Downloaded newer image for hshar/webapp:latest
docker.io/hshar/webapp:latest
rabi@docker-vm:~$ docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
hshar/webapp  latest   0cbc1f535ed8   6 years ago    303MB
rabi@docker-vm:~$

```

See "docker images --help".

```
rabi@docker-vm:~$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
--------------	-------	---------	---------	--------	-------	-------

```
rabi@docker-vm:~$ docker run -d --name rabiweb hshar/webapp
```

```
785dbdeec183166ad375cf9be597e723d55921c26a1cca97a16e6c11f68c85e6
```

```
rabi@docker-vm:~$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
785dbdeec183	hshar/webapp	"/bin/sh -c 'apachec..."	4 seconds ago	Up 3 seconds	80/tcp	rabiweb

```
rabi@docker-vm:~$
```

```
rabi@docker-vm:~$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
785dbdeec183	hshar/webapp	"/bin/sh -c 'apachec..."	4 seconds ago	Up 3 seconds	80/tcp	rabiweb

```
rabi@docker-vm:~$ docker exec -it rabiweb bash
```

```
root@785dbdeec183:/# nano test.txt
```

```
root@785dbdeec183:/# ls
```

```
bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv sys test.txt tmp usr var
```

```
root@785dbdeec183:/# cat test.txt
```

```
hello this azure assignment
```

```
root@785dbdeec183:/#
```