

CASE STUDY-1

Sushmita Sadhwan

Step 1: Create a Azure Virtual Machine

Login to the Azure Portal

Select Create New Virtual Machine

Select Size, Disks etc.

Review and Create the VM

Create a virtual machine ...

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *	<div>RDDB</div>
Resource group *	<div>RDDB1</div> <div>Create new</div>

Instance details

Virtual machine name *	<div>casestudysushmita</div>
Region *	<div>(US) Central US</div>
Availability options	<div>Availability zone</div>
Availability zone *	<div>Zones 1</div> <div> You can now select multiple zones. Selecting multiple zones will create one VM per zone. Learn more</div>
Security type	<div>Trusted launch virtual machines</div> <div>Configure security features</div>
Image *	<div> Ubuntu Server 22.04 LTS - x64 Gen2</div> <div>See all images Configure VM generation</div>

Run with Azure Spot discount ⓘ

☐

Size * ⓘ

Standard_B2s - 2 vcpus, 4 GiB memory (₹2,860.78/month) ✓

[See all sizes](#)

i Item(s) availability based on policy assignment(s) for the selected scope.
9e6823bb206147ba8a09005e ([Policy details](#))

Administrator account

Authentication type ⓘ

☐ SSH public key

☒ Password

Username * ⓘ

sushmita ✓

Password * ⓘ

..... ✓

Confirm password * ⓘ

..... ✓

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), SSH (22) ✓

i All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

Disk

Create a virtual machine ...

Basics

Disks

Networking

Management

Monitoring

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](#)

VM disk encryption

Azure disk storage encryption automatically encrypts your data stored on Azure managed disks (OS and data disks) at rest by default when persisting it to the cloud.

Encryption at host

☐

Encryption at host is not registered for the selected subscription.
[Learn more about enabling this feature](#)

OS disk

OS disk type *

Standard HDD (locally-redundant storage)

The selected VM size supports premium disks. We recommend Premium SSD for high IOPS workloads. Virtual machines with Premium SSD disks qualify for the 99.9% connectivity SLA.

Delete with VM

☒

Key management

Platform-managed key

Enable Ultra Disk compatibility

☐

Ultra disk is not supported with selected security type.

Data disks for casestudysushmita

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	Delete with VM
-----	------	------------	-----------	--------------	----------------

Review & Create

Create a virtual machine ...

✓ Validation passed

- Basics
- Disks
- Networking
- Management
- Monitoring
- Advanced
- Tags
- Review + create

i Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

Price

1 X Standard B2s
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Subscription credits apply ⓘ
3.9189 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

part62 undefined

Preferred e-mail address


part62@ravinsofttech.com





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.

Completed deployment



[Home](#) >

 **CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20230828093802** | [Overview](#)  

<<  Delete  Cancel  Redeploy  Download  Refresh

-  Overview
-  Inputs
-  Outputs
-  Template

Your deployment is complete

 Deployment name: CreateVm-canonical.0001-com-ubuntu-server-j... Start time: 8/28/2023, 9:48:42 AM
Subscription: [RDBD](#) Correlation ID: acc5f6eb-c6de-4999-833e-a96a86c0f28d 
Resource group: [RDBD1](#)

▼ Deployment 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](#)

Give feedback

 Tell us about your experience with deployment

Connect to the VM from SSHEASY/CMD

View the VM Resource Created from the above steps.

Use the Public IP address, Username and Password to access the VM from the command line.

Connected to sushmita@20.29.56.205

```
l_amd64.deb 404 Not Found [IP: 52.154.174.208 80]
E: Unable to fetch some archives, maybe run apt-get update or try with --fix-missing?
sushmita@casestudysushmita:~$ sudo apt get-update
E: Invalid operation get-update
sushmita@casestudysushmita:~$ sudo apt-get update
Hit:1 http://azure.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://azure.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://azure.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://azure.archive.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://azure.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://azure.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://azure.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://azure.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://azure.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://azure.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://azure.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [894 kB]
Get:12 http://azure.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [214 kB]
Get:13 http://azure.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [15.6 kB]
Get:14 http://azure.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [714 kB]
Get:15 http://azure.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [114 kB]
Get:16 http://azure.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [973 kB]
Get:17 http://azure.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [212 kB]
Get:18 http://azure.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [21.7 kB]
Get:19 http://azure.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [41.6 kB]
```

Connected to sushmita@20.29.56.205

```
sushmita@casestudysushmita:~$ sudo apt install gnome-terminal
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  adwaita-icon-theme alsa-topology-conf alsa-ucm-conf aspell aspell-en at-spi2-core bubblewrap dconf-gsettings-backend
  dconf-service desktop-file-utils dictionaries-common docbook-xml emacs-common enchant-2 fontconfig fontconfig-config
  fonts-dejavu-core glib-networking glib-networking-common glib-networking-services gnome-terminal-data
  gsettings-desktop-schemas gstreamer1.0-glib gstreamer1.0-plugins-base gstreamer1.0-plugins-good gstreamer1.0-x
  gtk-update-icon-cache gvfs gvfs-common gvfs-daemons gvfs-libs hicolor-icon-theme humanity-icon-theme hunspell-en-us
  libaa1 libasound2 libasound2-data libaspell15 libasyncns0 libatk-bridge2.0-0 libatk1.0-0 libatk1.0-data libatomic1
  libatspi2.0-0 libavahi-client3 libavahi-common-data libavahi-common3 libavc1394-0 libcac0 libcairo-gobject2 libcairo2
  libcanberra0 libcdparanoia0 libcolor2 libcupstools2 libdatrie1 libdconf1 libdeflate0 libdrm-amdgpu libdrm-intel1
  libdrm-nouveau2 libdrm-radeon1 libdv4 libegl-mesa0 libegl1 libenchant-2-2 libepoxy0 libevdev2 libflac8 libfontconfig1
  libgbm1 libgck-1-0 libgcr-base-3-1 libgdk-pixbuf-2.0-0 libgdk-pixbuf2.0-bin libgdk-pixbuf2.0-common libglib
  libglib-amber-dri libglib-mesa-dri libglapi-mesa libglvnd0 libglx-mesa0 libglx0 libgraphene-1.0-0 libgraphite2-3
  libgstreamer-glib0-0 libgstreamer-plugins-base1.0-0 libgstreamer-plugins-good1.0-0 libgtk-3-0 libgtk-3-bin
  libgtk-3-common libhandy-1-0 libharfbuzz-icu0 libharfbuzz0b libhunspell-1.7-0 libhyphen0 libiec61883-0 libjack-jackd2-0
  libjavascriptcoregtk-4.0-18 libjbig0 libjpeg-turbo8 libjpeg8 liblcms2-2 libllvml5 libltdl7 libmanette-0.2-0 libmp3lame0
  libmpeg123-0 libnautilus-extension1a libogg0 libopenjp2-7 libopus0 liborc-0.4-0 libpango-1.0-0 libpangocairo-1.0-0
  libpangoft2-1.0-0 libpciaccess0 libpipewire-0.3-0 libpipewire-0.3-common libpipewire-0.3-modules libpixmap-1-0
  libproxylv5 libpulse0 libraw1394-11 librsvg2-2 librsvg2-common libsamplerate0 libsecret-1-0 libsecret-common
  libsensors-config libsensors5 libshout3 libsndfile1 libsoup2.4-1 libsoup2.4-common libspa-0.2-modules libspeex1
  libtag1v5 libtag1v5-vanilla libtdb1 libthai-data libthai0 libtheora0 libtiff5 libtwolame0 libv4l-0 libv4lconvert0
```

```
sushmita@casestudysushmita:~$ sudo apt-get install ca-certificates curl gnupg
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ca-certificates is already the newest version (20230311ubuntu0.22.04.1).
ca-certificates set to manually installed.
curl is already the newest version (7.81.0-1ubuntu1.13).
curl set to manually installed.
gnupg is already the newest version (2.2.27-3ubuntu2.1).
gnupg set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 17 not upgraded.
sushmita@casestudysushmita:~$
```

Connected to sushmita@20.29.56.205

```
sushmita@casestudysushmita:~$ echo \  
"deb [arch=$(dpkg --print-architecture)] signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubu  
\  
"$(. /etc/os-release && echo "$VERSION_CODENAME")" stable" | \  
sudo tee /etc/apt/sources.list.d/docker.list > /dev/null  
sushmita@casestudysushmita:~$ sudo apt-get update  
Hit:1 http://azure.archive.ubuntu.com/ubuntu jammy InRelease  
Hit:2 http://azure.archive.ubuntu.com/ubuntu jammy-updates InRelease  
Hit:3 http://azure.archive.ubuntu.com/ubuntu jammy-backports InRelease  
Hit:4 http://azure.archive.ubuntu.com/ubuntu jammy-security InRelease  
Get:5 https://download.docker.com/linux/ubuntu jammy InRelease [48.9 kB]  
Get:6 https://download.docker.com/linux/ubuntu jammy/stable amd64 Packages [21.4 kB]  
Fetched 70.3 kB in 1s (122 kB/s)  
Reading package lists... Done  
sushmita@casestudysushmita:~$ sudo apt-get update  
sudo apt-get install ./docker-desktop-<version>-<arch>.deb  
Hit:1 http://azure.archive.ubuntu.com/ubuntu jammy InRelease  
Hit:2 http://azure.archive.ubuntu.com/ubuntu jammy-updates InRelease  
Hit:3 http://azure.archive.ubuntu.com/ubuntu jammy-backports InRelease  
Hit:4 http://azure.archive.ubuntu.com/ubuntu jammy-security InRelease  
Hit:5 https://download.docker.com/linux/ubuntu jammy InRelease  
Reading package lists... Done  
-bash: version: No such file or directory  
sushmita@casestudysushmita:~$
```

Rename the docker file

Connected to sushmita@20.29.56.205

```
sushmita@casestudysushmita:~$ sudo wget https://desktop.docker.com/linux/main/amd64/docker-desktop-4.22.1-amd64.deb?utm_  
ce=docker&utm_medium=webreferral&utm_campaign=docs-driven-download-linux-amd64  
[1] 6557  
[2] 6558  
sushmita@casestudysushmita:~$  
Redirecting output to 'wget-log'.  
^C  
[1]- Done sudo wget https://desktop.docker.com/linux/main/amd64/docker-desktop-4.22.1-amd64.deb?utm_  
ce=docker  
[2]+ Done utm_medium=webreferral  
sushmita@casestudysushmita:~$ ls  
docker-desktop-4.22.1-amd64.deb 'docker-desktop-4.22.1-amd64.deb?utm_source=docker' wget-log  
sushmita@casestudysushmita:~$ sudo mv ^C  
sushmita@casestudysushmita:~$ sudo mv ^C  
sushmita@casestudysushmita:~$ sudo mv 'docker-desktop-4.22.1-amd64.deb?utm_source=docker' docker-desktop-4.22.1-amd64.de  
sushmita@casestudysushmita:~$ ls  
docker-desktop-4.22.1-amd64.deb wget-log  
sushmita@casestudysushmita:~$ sudo apt-get update  
Hit:1 http://azure.archive.ubuntu.com/ubuntu jammy InRelease  
Hit:2 http://azure.archive.ubuntu.com/ubuntu jammy-updates InRelease  
Hit:3 http://azure.archive.ubuntu.com/ubuntu jammy-backports InRelease  
Hit:4 http://azure.archive.ubuntu.com/ubuntu jammy-security InRelease  
Hit:5 https://download.docker.com/linux/ubuntu jammy InRelease  
Reading package lists... Done
```

Connected to sushmita@20.29.56.205

```
sushmita@casestudysushmita:~$ sudo apt-get install ./docker-desktop-4.22.1-amd64.deb
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Note, selecting 'docker-desktop' instead of './docker-desktop-4.22.1-amd64.deb'
The following additional packages will be installed:
  acl cpu-checker docker-buildx-plugin docker-ce-cli docker-compose-plugin ibverbs-providers ipxe-gemu
  ipxe-gemu-256k-compatible-efi-roms libboost-iostreams1.74.0 libboost-thread1.74.0 libbrotli1.0.8 libbrcm4343a libbrcm4343a-firmware
  libdecor-0-0 libdecor-0-plugin-1-cairo libfdt1 libgelf0 libgelf0 libgelf0 libgelf0 libglusterfs0 libibverbs1 libice6 libiscsi
  libndctl6 libnl-route-3-200 libpcsc-lite1 libpmem1 libpmemobj1 libqrencode4 librados2 librd1 librdmacm1 libsd2-2.0-0
  libslirp0 libsm6 libspice-server1 liburing2 libusbredirparser1 libvirglrenderer1 libxmu6 libxss1 libxt6 msr-tools ovmf
  pass qemu-block-extra qemu-system-common qemu-system-data qemu-system-gui qemu-system-x86 qemu-utils qrencode seabios
  tree uidmap xclip
Suggested packages:
  pcsd xdg-utils gstreamer1.0-libav gstreamer1.0-plugins-ugly libxml-simple-perl python ruby samba vde2 debootstrap
The following NEW packages will be installed:
  acl cpu-checker docker-buildx-plugin docker-ce-cli docker-compose-plugin docker-desktop ibverbs-providers ipxe-gemu
  ipxe-gemu-256k-compatible-efi-roms libboost-iostreams1.74.0 libboost-thread1.74.0 libbrotli1.0.8 libbrcm4343a libbrcm4343a-firmware
  libdecor-0-0 libdecor-0-plugin-1-cairo libfdt1 libgelf0 libgelf0 libgelf0 libgelf0 libglusterfs0 libibverbs1 libice6 libiscsi
  libndctl6 libnl-route-3-200 libpcsc-lite1 libpmem1 libpmemobj1 libqrencode4 librados2 librd1 librdmacm1 libsd2-2.0-0
  libslirp0 libsm6 libspice-server1 liburing2 libusbredirparser1 libvirglrenderer1 libxmu6 libxss1 libxt6 msr-tools ovmf
  pass qemu-block-extra qemu-system-common qemu-system-data qemu-system-gui qemu-system-x86 qemu-utils qrencode seabios
  tree uidmap xclip
0 upgraded, 57 newly installed, 0 to remove and 17 not upgraded.
```

Start docker-desktop

Connected to sushmita@20.29.56.205

```
sushmita@casestudysushmita:~$ systemctl --user start docker-desktop
sushmita@casestudysushmita:~$ docker compose version
Docker Compose version v2.20.2-desktop.1
sushmita@casestudysushmita:~$ docker --version
Docker version 24.0.5, build ced0996
sushmita@casestudysushmita:~$ docker version
Cannot connect to the Docker daemon at unix:///var/run/docker.sock. Is the docker daemon running?
Client: Docker Engine - Community
 Cloud integration: v1.0.35-desktop+001
 Version: 24.0.5
 API version: 1.43
 Go version: go1.20.6
 Git commit: ced0996
 Built: Fri Jul 21 20:35:18 2023
 OS/Arch: linux/amd64
 Context: default
sushmita@casestudysushmita:~$ cd /path/to/working/directory
git clone https://github.com/spring-projects/spring-petclinic.git
cd spring-petclinic
-bash: cd: /path/to/working/directory: No such file or directory
Cloning into 'spring-petclinic'...
remote: Enumerating objects: 9793, done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (6/6), done.
```


Connected to sushmita@20.29.56.205

```
remote: Total 9793 (delta 0), reused 8 (delta 0), pack-reused 9782
Receiving objects: 100% (9793/9793), 7.83 MiB | 23.73 MiB/s, done.
Resolving deltas: 100% (3718/3718), done.
sushmita@casestudysushmita:~/spring-petclinic$ # syntax=docker/dockerfile:1

FROM eclipse-temurin:17-jdk-jammy
FROM: command not found
sushmita@casestudysushmita:~/spring-petclinic$ # syntax=docker/dockerfile:1
sushmita@casestudysushmita:~/spring-petclinic$ FROM eclipse-temurin:17-jdk-jammy
FROM: command not found
sushmita@casestudysushmita:~/spring-petclinic$ touch Dockerfile
sushmita@casestudysushmita:~/spring-petclinic$ nano Dockerfile
sushmita@casestudysushmita:~/spring-petclinic$ touch .dockerignore
sushmita@casestudysushmita:~/spring-petclinic$ nano .dockerignore
sushmita@casestudysushmita:~/spring-petclinic$ docker build --tag java-docker
ERROR: "docker buildx build" requires exactly 1 argument.
See 'docker buildx build --help'.

Usage:  docker buildx build [OPTIONS] PATH | URL | -

Start a build
sushmita@casestudysushmita:~/spring-petclinic$ docker build --tag java-docker .
ERROR: Cannot connect to the Docker daemon at unix:///var/run/docker.sock. Is the docker daemon running?
sushmita@casestudysushmita:~/spring-petclinic$
```

Create the Java File(Dockerfile)

Connected to sushmita@20.29.56.205

```
GNU nano 6.2 Dockerfile
# syntax=docker/dockerfile:1

FROM eclipse-temurin:17-jdk-jammy

WORKDIR /app

COPY .mvn/ .mvn
COPY mvnw pom.xml ./
RUN ./mvnw dependency:resolve

COPY src ./src

CMD ["./mvnw", "spring-boot:run"]

[ Read 13 lines ]
^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location   M-U Undo      M-A Set Mark
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^_ Go To Line  M-E Redo      M-6 Copy
```

.dockerignore file

Connected to sushmita@20.29.56.205

```
GNU nano 6.2 .dockerignore
target

[ Soft wrapping of overlong lines enabled ]
^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location   ^U Undo       ^M Set Mark
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/ Go To Line ^B Redo       ^-6 Copy
```

Connected to sushmita@20.29.56.205

```
sushmita@casestudysushmita:~/spring-petclinic$ sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin
in docker-compose-plugin
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
docker-buildx-plugin is already the newest version (0.11.2-1~ubuntu.22.04~jammy).
docker-buildx-plugin set to manually installed.
docker-ce-cli is already the newest version (5:24.0.5-1~ubuntu.22.04~jammy).
docker-ce-cli set to manually installed.
docker-compose-plugin is already the newest version (2.20.2-1~ubuntu.22.04~jammy).
docker-compose-plugin set to manually installed.
Suggested packages:
  aufs-tools cgroupfs-mount | cgroup-lite
The following NEW packages will be installed:
  containerd.io docker-ce docker-ce-rootless-extras pigz slirp4netns
0 upgraded, 5 newly installed, 0 to remove and 17 not upgraded.
Need to get 60.4 MB of archives.
After this operation, 239 MB of additional disk space will be used.
Get:1 http://azure.archive.ubuntu.com/ubuntu jammy/universe amd64 pigz amd64 2.6-1 [63.6 kB]
Get:2 http://azure.archive.ubuntu.com/ubuntu jammy/universe amd64 slirp4netns amd64 1.0.1-2 [28.2 kB]
Get:3 https://download.docker.com/linux/ubuntu jammy/stable amd64 containerd.io amd64 1.6.22-1 [28.3 MB]
Get:4 https://download.docker.com/linux/ubuntu jammy/stable amd64 docker-ce amd64 5:24.0.5-1~ubuntu.22.04~jammy [22.9 MB]
Get:5 https://download.docker.com/linux/ubuntu jammy/stable amd64 docker-ce-rootless-extras amd64 5:24.0.5-1~ubuntu.22.04~jammy [9032 kB]
```

Test if docker is running

Connected to sushmita@20.29.56.205

```
sushmita@casestudysushmita:~/spring-petclinic$ systemctl start docker-desktop
==== AUTHENTICATING FOR org.freedesktop.systemd1.manage-units ====
Authentication is required to start 'docker-desktop.service'.
Authenticating as: Ubuntu (sushmita)
Password:
==== AUTHENTICATION COMPLETE ====
Failed to start docker-desktop.service: Unit docker-desktop.service not found.
sushmita@casestudysushmita:~/spring-petclinic$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
719385e32844: Pull complete
Digest: sha256:dcba6daec718f547568c562956fa47e1b03673dd010fe6ee58ca806767031d1c
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
```

Connected to sushmita@20.29.56.205

```
sushmita@casestudysushmita:~/spring-petclinic$ systemctl start docker
==== AUTHENTICATING FOR org.freedesktop.systemd1.manage-units ====
Authentication is required to start 'docker.service'.
Authenticating as: Ubuntu (sushmita)
Password:
==== AUTHENTICATION COMPLETE ====
sushmita@casestudysushmita:~/spring-petclinic$ systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2023-08-28 05:59:17 UTC; 2min 40s ago
   TriggeredBy: ● docker.socket
     Docs: https://docs.docker.com
    Main PID: 8570 (dockerd)
      Tasks: 10
     Memory: 43.2M
        CPU: 452ms
    CGroup: /system.slice/docker.service
            └─8570 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Aug 28 05:59:16 casestudysushmita dockerd[8570]: time="2023-08-28T05:59:16.095110503Z" level=info msg="Starting up"
Aug 28 05:59:16 casestudysushmita dockerd[8570]: time="2023-08-28T05:59:16.096538775Z" level=info msg="detected 127.0.0.53"
Aug 28 05:59:16 casestudysushmita dockerd[8570]: time="2023-08-28T05:59:16.511441473Z" level=info msg="Loading containers: >
Aug 28 05:59:17 casestudysushmita dockerd[8570]: time="2023-08-28T05:59:17.327017471Z" level=info msg="Loading containers: >
Aug 28 05:59:17 casestudysushmita dockerd[8570]: time="2023-08-28T05:59:17.419391172Z" level=warning msg="Not using native" >
```

Connected to sushmita@20.29.56.205


```
sushmita@casestudysushmita:~/spring-petclinic$ docker build --tag java-docker .
ERROR: permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://var%2Frun%2Fdocker.sock/_ping": dial unix /var/run/docker.sock: connect: permission denied
sushmita@casestudysushmita:~/spring-petclinic$ sudo docker build --tag java-docker .
[+] Building 106.2s (13/13) FINISHED
=> [internal] load .dockerignore                                docker:default 0.4s
=> => transferring context: 47B                                0.0s
=> [internal] load build definition from Dockerfile            0.3s
=> => transferring dockerfile: 236B                             0.0s
=> resolve image config for docker.io/docker/dockerfile:1    1.3s
=> docker-image://docker.io/docker/dockerfile:1@sha256:ac85f380a63b13dfcefa89046420e1781752bab202122f8f50032edf31be0 1.1s
=> => resolve docker.io/docker/dockerfile:1@sha256:ac85f380a63b13dfcefa89046420e1781752bab202122f8f50032edf31be0021 0.1s
=> => sha256:ac85f380a63b13dfcefa89046420e1781752bab202122f8f50032edf31be0021 8.40kB / 8.40kB 0.0s
=> => sha256:657fcc512c7369f4cb3d94ea329150f8daf626bc838blale81f1834c73ecc77e 482B / 482B 0.0s
=> => sha256:a17ee7fff8f5e97b974f5b48f51647d2cf28d543f2aa6c11aaa0ea431b44bb89 1.27kB / 1.27kB 0.0s
=> => sha256:9d9c93f4b00be908ab694a4df732570bcd3b8a96b7515d70ff93402179ad232 11.80MB / 11.80MB 0.3s
=> => extracting sha256:9d9c93f4b00be908ab694a4df732570bcd3b8a96b7515d70ff93402179ad232 0.3s
=> [internal] load metadata for docker.io/library/eclipse-temurin:17-jdk-jammy 0.3s
=> [1/6] FROM docker.io/library/eclipse-temurin:17-jdk-jammy@sha256:bfc748eb9766e9c031bd79f6a37d5d7fcb1baladca56106 20.4s
=> => resolve docker.io/library/eclipse-temurin:17-jdk-jammy@sha256:bfc748eb9766e9c031bd79f6a37d5d7fcb1baladca56106f 0.3s
=> => sha256:bfc748eb9766e9c031bd79f6a37d5d7fcb1baladca56106fc4c661fa255340c8 1.21kB / 1.21kB 0.0s
=> => sha256:b817bf26f878c20996fa0def35fc8b694c2f2785dfe9405c25c07066a2b9595f 1.37kB / 1.37kB 0.0s
=> => sha256:36abeadcf77a56aaa625f7c84f4c0119849737a756ac6c7c0fcc876096e0f285 6.76kB / 6.76kB 0.0s
=> => sha256:99de9192b4afd13ed65aeae58d55b38e5231eb97a743921357b7d5b4c0c903c4 30.44MB / 30.44MB 1.1s
```

```
sushmita@casestudysushmita:~/spring-petclinic$ sudo docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
java-docker	latest	e8f5db5925be	2 minutes ago	585MB
hello-world	latest	9c7a54a9a43c	3 months ago	13.3kB


```
sushmita@casestudysushmita:~/spring-petclinic$
```

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 sushmita3131

sushmita3131

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gettingstarted

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 Add a short description for this repository


The short description is used to index your content on Docker Hub and in search engines. It's visible to users in search results.

[Update](#)

 sushmita3131 / gettingstarted

Description

This repository does not have a description 

 Last pushed: a few seconds ago

Docker commands


To push a new tag to this repository:

```
docker push sushmita3131/gettingstarted:tagname
```

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Create access tokens

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Account Settings

Security

 **sushmita3131**
User

General

Security

Default Privacy

Notifications

Convert Account

Deactivate Account

Copy Access Token

When logging in from your Docker CLI client, use this token as a password. [Learn more](#)

ACCESS TOKEN DESCRIPTION


clockboxci


ACCESS PERMISSIONS

Read, Write, Delete

To use the access token from your Docker CLI client:

1. Run `docker login -u sushmita3131`
2. At the password prompt, enter the personal access token.

`dckr_pat_NZ0FuBu1aBh1aD1JEFn5QWfMP3k`


 **WARNING:** This access token will only be displayed once. It will not be stored and cannot be retrieved. Please be sure to save it now.

Copy and Close

New Access Token

Active

Yes

 **docker**

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
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Cookies Settings

Deploy in Azure Webapps

Choose the create a new webapp option.

Tweak the settings and create the resource.

Click on the public domain to view the app.

The screenshot shows the GitHub Actions interface for a workflow named 'Create done.yml' (run #1). The workflow is triggered by a push to the 'main' branch. The status is 'Success' with a total duration of 27s. The workflow file 'done.yml' is shown, containing a single job 'build' that took 16s to complete. The interface includes a sidebar with navigation links (Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, Settings) and a top bar with a search bar and repository information (iamanobodygod / GOD).

The screenshot shows the Azure Portal deployment overview for a resource named 'Microsoft.Web-WebApp-Portal-990e45d6-be7a'. The deployment is complete. The interface includes a sidebar with navigation links (Overview, Inputs, Outputs, Template) and a top bar with a search bar and deployment actions (Delete, Cancel, Redeploy, Download, Refresh). The deployment details section shows the deployment name, subscription (RDBD), resource group (RDBD1), start time (8/28/2023, 3:01:54 PM), and correlation ID (ef8adf80-f1d0-47e7-b4b7-e99ce70c70de). The next steps section recommends managing deployments for the app and protecting the app with authentication. A 'Go to resource' button is available. A feedback link is also present.

while installing Maven we encountered that our machine has JAVA11 but we have to install JAVA17



Commands:

```
clear
sudo apt update
sudo apt install git
sudo apt install maven
sudo apt update
sudo apt-get install ca-certificates curl gnupg
sudo install -m 0755 -d /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o
/etc/apt/keyrings/docker.gpg
sudo chmod a+r /etc/apt/keyrings/docker.gpg
echo "deb [arch=$(dpkg --print-architecture)] signed-by=/etc/apt/keyrings/docker.gpg]
https://download.docker.com/linux/ubuntu/ \
$(. /etc/os-release && echo "$VERSION_CODENAME") stable" | sudo tee
/etc/apt/sources.list.d/docker.list > /dev/null
sudo apt-get update
sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-
plugin
sudo docker run hello-world
systemctl status docker
git clone https://github.com/hrb1989/shell\_7\_foundation\_Java\_Spring.git
cd shell_7_foundation_Java_Spring
mvn install -DskipTests
sudo apt install -y openjdk-17-jdk
mvn install -DskipTests
docker build -t <name> -f /home/azureuser/shell_7_foundation_Java_Spring/Dockerfile
vi Dockerfile
docker build --tag sushmita3131-docker:latest .
```

```
sudo docker build --tag sushmita3131-docker:latest .  
sudo docker login  
sudo docker images  
sudo docker tag sushmita3131-docker:latest sushmita3131-docker  
sudo docker push sushmita3131-docker
```