

AWS - EXERCISE 1

1. Create a new EC2 instance. Name it "UbuntuDockerAWS".

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Launch instance ▲

Migrate a server ↗

Launch instance

Launch instance from template on

Name and tags Info

Name

UbuntuDockerAWS

Add additional tags

▼ Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

vockey ▼

↻ Create new key pair

1 / 5

▼ Network settings Info

Edit

Network Info

vpc-0319a0fe077aa36dc

Subnet Info

No preference (Default subnet in any availability zone)

Auto-assign public IP Info

Enable

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group

☐ Select existing security group

We'll create a new security group called 'launch-wizard-2' with the following rules:

☒ Allow SSH traffic from

Helps you connect to your instance

Anywhere
0.0.0.0/0

☒ Allow HTTPS traffic from the internet

To set up an endpoint, for example when creating a web server

☒ Allow HTTP traffic from the internet

To set up an endpoint, for example when creating a web server

⚠

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

×

▼ Summary

Number of instances Info

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...read more
ami-00874d747dde814fa

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

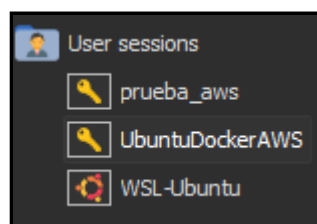
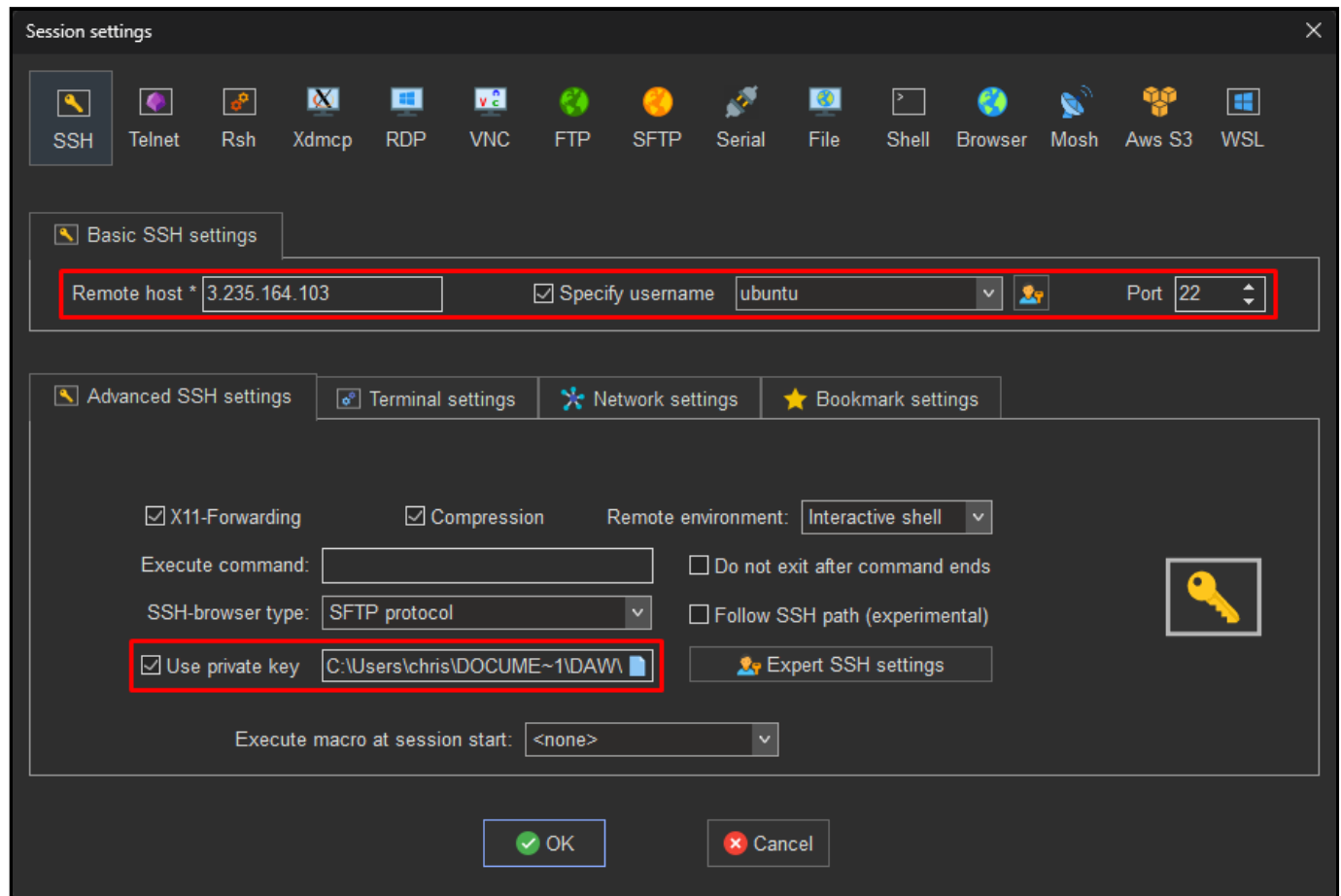
Cancel

Launch instance

2. Use this EC2 instance to do the following tasks:

a. Access to this instance using SSH client. Create a new profile.

First, I create a new session and configure it to use my new instance's host and the default user "ubuntu". Also, I downloaded the "PPK" file, since I configured it to use a vockey.



b. Update the Ubuntu packages.

```
sudo apt update -y && sudo apt upgrade -y && sudo apt auto-remove -y
```

```

3.235.164.103 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...
User sessions
prueba_aws
UbuntuDockerAWS
WSL-Ubuntu

ubuntu@ip-172-31-11-232:~$ sudo apt update -y && sudo apt upgrade -y && sudo apt auto-remove -y
Hit:1 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [107 kB]
Get:4 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-universe amd64 Packages [14.1 MB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:6 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5892 kB]
Get:7 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [288 kB]
Get:8 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [874 kB]
Get:12 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [192 kB]
Get:13 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [13.2 kB]
Get:14 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [587 kB]
Get:15 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [90.9 kB]
Get:16 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [559 B]
Get:17 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [801 kB]
Get:18 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [144 kB]
Get:19 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [15.1 kB]
Get:20 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [9364 B]
Get:21 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [3168 B]
Get:22 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [456 B]
Get:23 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [40.7 kB]
Get:24 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [9800 B]
Get:25 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [116 B]
Get:26 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:27 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted Translation-en [19.5 kB]
Get:28 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [392 B]
Get:29 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [13.8 kB]
Get:30 http://us-east-1-ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [116 B]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [622 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [130 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [8184 B]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [550 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [84.7 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 c-n-f Metadata [556 B]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [639 kB]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [97.9 kB]
Get:39 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [11.3 kB]
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [4960 B]
Get:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [996 B]
Get:42 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [240 B]
Fetched 254.7 MB in 4s (6258 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
33 packages can be upgraded. Run 'apt list --upgradable' to see them.
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
#
# News about significant security updates, features and services will
# appear here to raise awareness and perhaps tease r/r/linux :)
# Use 'pro config set apt_news=false' to hide this and future APT news.
#
The following packages have been kept back:

```

c. Install Docker in this server.

```
sudo apt install docker.io
```

```

ubuntu@ip-172-31-11-232:~$ sudo apt install docker.io
Reading package lists ... Done
Building dependency tree ... Done
Reading state information ... Done
The following additional packages will be installed:
  bridge-utils containerd dns-root-data dnsmasq-base pigz runc ubuntu-fan
Suggested packages:
  ifupdown aufs-tools cgroupfs-mount | cgroup-lite debootstrap docker-doc rinse zfs-fuse | zfsutils
The following NEW packages will be installed:
  bridge-utils containerd dns-root-data dnsmasq-base docker.io pigz runc ubuntu-fan
0 upgraded, 8 newly installed, 0 to remove and 6 not upgraded.
Need to get 66.8 MB of archives.
After this operation, 287 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 pigz amd64 2.6-1 [63.6 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 bridge-utils amd64 1.7-1ubuntu3 [34.4 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 runc amd64 1.1.0-0ubuntu1.1 [4242 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 containerd amd64 1.5.9-0ubuntu3.1 [28.1 MB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 dns-root-data all 2021011101 [5256 B]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 dnsmasq-base amd64 2.86-1.1ubuntu0.1 [354 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 docker.io amd64 20.10.12-0ubuntu4 [34.0 MB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 ubuntu-fan all 0.12.16 [35.2 kB]
Fetched 66.8 MB in 2s (40.3 MB/s)
Preconfiguring packages ...
Selecting previously unselected package pigz.
(Reading database ... 63571 files and directories currently installed.)
Preparing to unpack .../0-pigz_2.6-1_amd64.deb ...
Unpacking pigz (2.6-1) ...
Selecting previously unselected package bridge-utils.
Preparing to unpack .../1-bridge-utils_1.7-1ubuntu3_amd64.deb ...
Unpacking bridge-utils (1.7-1ubuntu3) ...
Selecting previously unselected package runc.
Preparing to unpack .../2-runc_1.1.0-0ubuntu1.1_amd64.deb ...
Unpacking runc (1.1.0-0ubuntu1.1) ...
Selecting previously unselected package containerd.
Preparing to unpack .../3-containerd_1.5.9-0ubuntu3.1_amd64.deb ...
Unpacking containerd (1.5.9-0ubuntu3.1) ...
Selecting previously unselected package dns-root-data.
Preparing to unpack .../4-dns-root-data_2021011101_all.deb ...
Unpacking dns-root-data (2021011101) ...
Selecting previously unselected package dnsmasq-base.
Preparing to unpack .../5-dnsmasq-base_2.86-1.1ubuntu0.1_amd64.deb ...
Unpacking dnsmasq-base (2.86-1.1ubuntu0.1) ...
Selecting previously unselected package docker.io.
Preparing to unpack .../6-docker.io_20.10.12-0ubuntu4_amd64.deb ...
Unpacking docker.io (20.10.12-0ubuntu4) ...
Selecting previously unselected package ubuntu-fan.
Preparing to unpack .../7-ubuntu-fan_0.12.16_all.deb ...
Unpacking ubuntu-fan (0.12.16) ...
Setting up dnsmasq-base (2.86-1.1ubuntu0.1) ...
Setting up runc (1.1.0-0ubuntu1.1) ...
Setting up dns-root-data (2021011101) ...
Setting up bridge-utils (1.7-1ubuntu3) ...
Setting up pigz (2.6-1) ...
Setting up containerd (1.5.9-0ubuntu3.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.

```