

Assignment 1

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Hosting Website in AWS Cloud

Step 1

First of all, we need to launch an instance, so we have to create a new key pair

The screenshot shows the 'Create key pair' dialog box. It has a title bar with a close button. The main content area includes a 'Key pair name' field with the value 'syed-noor', a 'Key pair type' section with 'RSA' selected, and a 'Private key file format' section with '.pem' selected. A warning message at the bottom states: 'When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. Learn more'. At the bottom right are 'Cancel' and 'Create key pair' buttons.

Create key pair

Key pair name
Key pairs allow you to connect to your instance securely.
syed-noor
The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ RSA
RSA encrypted private and public key pair

☐ ED25519
ED25519 encrypted private and public key pair

Private key file format

☒ .pem
For use with OpenSSH

☐ .ppk
For use with PuTTY

⚠ When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

Cancel Create key pair

Step 2

Connect Instance

The screenshot shows the 'Instances' page in the AWS Management Console. It features a search bar, a 'Connect' button, and a table of instances. The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4 DNS. Three instances are listed: 'Noor-Syed' (Terminated), 'Noor-Syed' (Terminated), and 'noorsyed' (Running). The 'noorsyed' instance is selected, and its 'Connect' button is highlighted.

Instances (1/5) info

Find instance by attribute or tag (case-sensitive)

Connect Instance state Actions Launch instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Noor-Syed	i-01d112825a1059664	Terminated	t2.micro	-	No alarms	ap-south-1a	-
Noor-Syed	i-0866b072203f97f	Terminated	t2.micro	-	No alarms	ap-south-1a	-
noorsyed	i-0ed4597e4d6732566	Running	t2.micro	Initializing	No alarms	ap-south-1a	ec2-15-233-207-108.ap...

Connect to Instance

EC2 > Instances > i-0ed4597e4d6732566 > Connect to instance

Connect to instance [info](#)

Connect to your instance i-0ed4597e4d6732566 (noorsyed) using any of these options

EC2 Instance Connect

Session Manager

SSH client

EC2 serial console

Instance ID
i-0ed4597e4d6732566 (noorsyed)

Connection Type

☒ Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.

☐ Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IP address
15.255.207.108

User name
Enter the user name defined in the AMI used to launch the instance. If you didn't define a custom user name, use the default user name, ec2-user.

Note: In most cases, the default user name, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel

Connect

EC2 > Instances > i-0ed4597e4d6732566 > Connect to instance

Connect to instance [Info](#)

Connect to your instance i-0ed4597e4d6732566 (running) using any of these options:

EC2 Instance Connect | Session Manager | SSH client | EC2 serial console

Instance ID

i-0ed4597e4d6732566 (running)

Connection Type

☒ Connect using EC2 Instance Connect

Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.

☐ Connect using EC2 Instance Connect Endpoint

Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IP address

15.255.207.108

User name

Enter the user name defined in the AMI used to launch the instance. If you didn't define a custom user name, use the default user name, ec2-user.

ec2-user

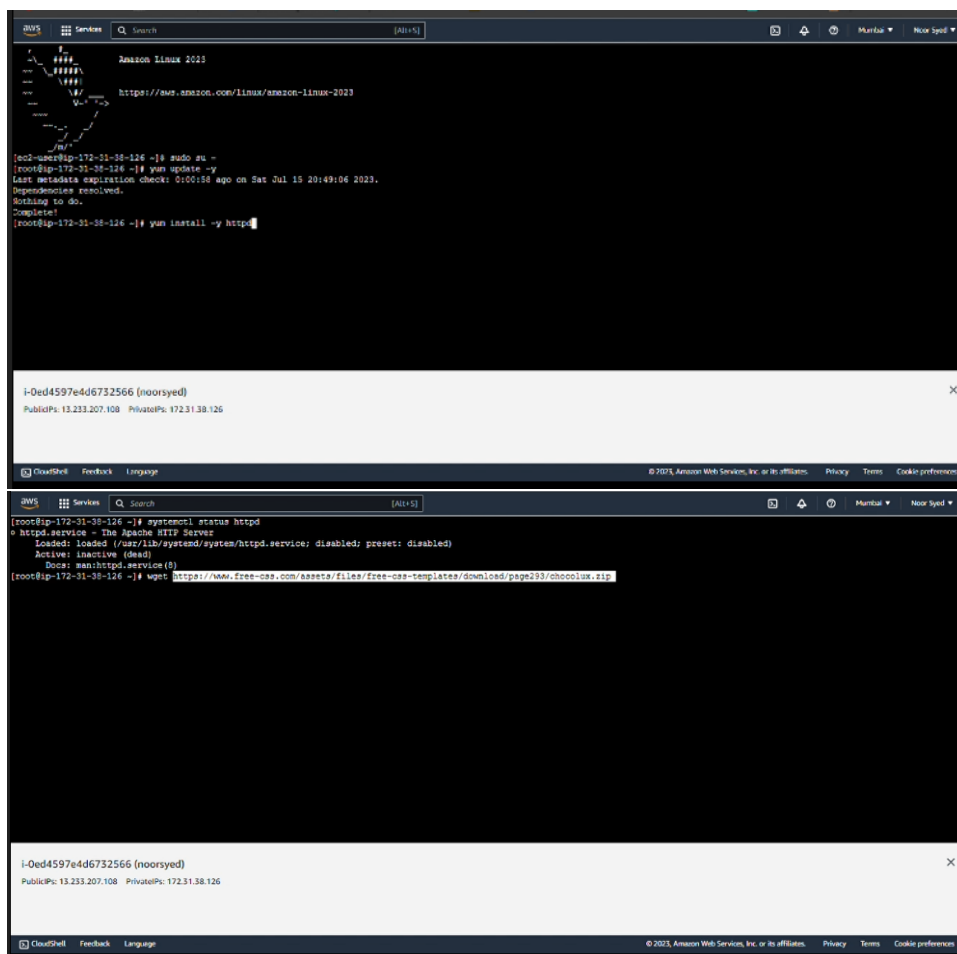
Note: In most cases, the default user name, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel

Connect

Steps 3

Commands



The image displays two sequential screenshots of an AWS CloudShell terminal window. The top screenshot shows the initial state of the Amazon Linux 2023 instance, including the AWS logo, the OS name, and the URL <https://aws.amazon.com/linux/amazon-linux-2023>. The terminal output shows the user `ec2-user@ip-172-31-38-126` running `sudo su -` to become root. Subsequent commands include `yum update -y`, which updates the system and reports the last metadata expiration check, and `yum install -y httpd`, which installs the Apache HTTP Server. The bottom screenshot shows the terminal after the installation. The user runs `systemctl status httpd`, which displays the service status as 'loaded' but 'inactive (dead)'. The user then runs `systemctl start httpd.service` to start the service. Finally, the user runs `wget https://www.free-cas.com/assets/Files/free-cas-templates/download/page233/chocolux.zip` to download a file. Both screenshots show the instance ID `i-Oed4597e4d6732566` and the public/private IP addresses `13.233.207.108` and `172.31.38.126` respectively.

```
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023

[ec2-user@ip-172-31-38-126 ~]$ sudo su -
[root@ip-172-31-38-126 ~]# yum update -y
Last metadata expiration check: 0:00:58 ago on Sat Jul 15 20:49:06 2023.
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-172-31-38-126 ~]# yum install -y httpd

i-Oed4597e4d6732566 (noorsyed)
PublicPc: 13.233.207.108 PrivatePc: 172.31.38.126

[ec2-user@ip-172-31-38-126 ~]$ systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/systemd/httpd.service; disabled; preset: disabled)
   Active: inactive (dead)
     Docs: man:httpd.service(8)
[root@ip-172-31-38-126 ~]# wget https://www.free-cas.com/assets/Files/free-cas-templates/download/page233/chocolux.zip
```

```

AWS  Services  Search  [All]
[root@ip-172-31-38-126 ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
   Active: inactive (dead)
     Docs: man:httpd.service(8)
[root@ip-172-31-38-126 ~]# wget https://www.free-css.com/assets/files/free-css-templates/download/page293/chocolux.zip
--2023-07-15 20:11:54--  https://www.free-css.com/assets/files/free-css-templates/download/page293/chocolux.zip
Resolving www.free-css.com (www.free-css.com)... 217.160.0.242, 2001:8d8:100f:f000:128f
Connecting to www.free-css.com (www.free-css.com) [217.160.0.242]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1268680 (1.2M) [application/zip]
Saving to: 'chocolux.zip'

chocolux.zip           100%[=====>]  1.21M  1.29MB/s   in 1.0s

2023-07-15 20:11:56 (1.25 MB/s) - 'chocolux.zip' saved [1268680/1268680]

[root@ip-172-31-38-126 ~]# ls
chocolux.zip
[root@ip-172-31-38-126 ~]# unzip chocolux.zip

i-Oed4597e4d6732566 (noorsyed)
PublicIPs: 13.253.207.108  PrivateIPs: 172.31.38.126

```

```

[root@ip-172-31-38-126 ~]# ls
chocolux-html  chocolux.zip
[root@ip-172-31-38-126 ~]# cd chocolux-html/
[root@ip-172-31-38-126 chocolux-html]# ls
about.html  chocolate.html  contact.html  css  fonts  images  index.html  js  testimonial.html
[root@ip-172-31-38-126 chocolux-html]# mv * /var/www/html/
[root@ip-172-31-38-126 chocolux-html]# cd /var/www/html/
[root@ip-172-31-38-126 html]# ls
about.html  chocolate.html  contact.html  css  fonts  images  index.html  js  testimonial.html
[root@ip-172-31-38-126 html]# systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service - /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-38-126 html]# systemctl start httpd
[root@ip-172-31-38-126 html]# systemctl status httpd

i-Oed4597e4d6732566 (noorsyed)
PublicIPs: 13.253.207.108  PrivateIPs: 172.31.38.126

```

Step 4

Go to Security groups and edit inbound rules

The screenshot displays the AWS Management Console interface for editing inbound rules of a security group. The top section shows the 'Details' of the security group 'sg-0a25ca77cc4b474d4 - launch-wizard-5', including its name, ID, description, VPC ID, owner, and rule counts. Below this, a notification bar indicates the availability of the Reachability Analyzer. The 'Inbound rules' tab is active, showing a list of rules. The 'Edit inbound rules' button is highlighted. The bottom section shows the 'Edit inbound rules' form with a table of existing rules and an 'Add rule' button. The 'Save changes' button is highlighted at the bottom right.

EC2 > Security Groups > sg-0a25ca77cc4b474d4 - launch-wizard-5

sg-0a25ca77cc4b474d4 - launch-wizard-5

Details

Security group name: launch-wizard-5

Security group ID: sg-0a25ca77cc4b474d4

Description: launch-wizard-5 created 2023-07-15T20:47:50.579Z

VPC ID: vpc-00ad1bb038a4f7bf6

Owner: 872404382261

Inbound rules count: 1 Permission entry

Outbound rules count: 1 Permission entry

Inbound rules | Outbound rules | Tags

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Inbound rules (1/1)

Filter security group rules

Manage tags | Edit inbound rules

EC2 > Security Groups > sg-0a25ca77cc4b474d4 - launch-wizard-5 > Edit inbound rules

Edit inbound rules

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules

Security group rule ID	Type	Protocol	Port range	Source	Description - optional	
sg-00216223897bf2cad	SSH	TCP	22	Custom		Delete
-	HTTP	TCP	80	Anywh...	incoming-web-req1	Delete
-	HTTPS	TCP	443	Anywh...	incoming-web-req2	Delete

Add rule

Cancel | Preview changes | Save changes

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Step 5

Copy the public IP and Paste it in a new tab of the browser

