

Yeshwanth chauhan

## Webserver Hosting

Create a VPC SUBNETS ROUTE TABLE INTERNETGATEWAYS

Create an instance and connect

The screenshot shows the AWS Management Console for the 'us-east-1' region. The 'Instances' page is active, displaying a list of EC2 instances. The 'DefaultInstance' (i-058a65ec1a0311c29) is highlighted, showing its details and security group rules.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IPv6 IPs
assign1	i-0833352c3f81a73ec	Terminated	t2.micro	-	No alarms	us-east-1a	-	-	-	-
DefaultInstance	i-058a65ec1a0311c29	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	-	3.85.145.226	-	-

**Instance: i-058a65ec1a0311c29 (DefaultInstance)**

Name	Security group rule ID	Port range	Protocol	Source	Security groups	Description
-	sg-04ab25041053e457c	22	TCP	0.0.0.0/0	launch-wizard-1	-
-	sg-0b6f9d70b6e4b9ee6	All	ICMP	0.0.0.0/0	launch-wizard-1	-

**Outbound rules**

Name	Security group rule ID	Port range	Protocol	Destination	Security groups	Description
-	sg-0385947a698cd410d	All	All	0.0.0.0/0	launch-wizard-1	-

The screenshot shows the 'Edit inbound rules' page for the security group 'sg-0ee0d7f3e78c2a6f9'. The page displays a list of inbound rules and allows for adding new rules.

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sg-04ab25041053e457c	SSH	TCP	22	Custom	0.0.0.0/0
sg-0b6f9d70b6e4b9ee6	All ICMP - IPv4	ICMP	All	Custom	0.0.0.0/0
sg-072d8c1ec02e7abaf	HTTP	TCP	80	Custom	0.0.0.0/0

**Add rule**

Cancel Preview changes Save rules

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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-058a6sec1a0311c29&osUser=ec2-user&ss...

Amazon Linux 2 AMI

```
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-32-0-165 ~]$ ping google
ping: google: Name or service not known
[ec2-user@ip-172-32-0-165 ~]$ ping google.com
PING google.com (172.253.122.102) 56(84) bytes of data.
64 bytes from bh-in-f102-1e100.net (172.253.122.102): icmp_seq=1 ttl=53 time=2.45 ms
64 bytes from bh-in-f102-1e100.net (172.253.122.102): icmp_seq=2 ttl=53 time=2.40 ms
^C
--- google.com ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt: min/avg/max/mdev = 2.455/2.462/2.482/0.051 ms
[ec2-user@ip-172-32-0-165 ~]$ sudo yum install httpd
loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amazon2-core                               | 3.7 kB | 00:00:00
amazon2-extra-docker                       | 3.0 kB | 00:00:00
amazon2-extra-kernel-5.10                 | 3.0 kB | 00:00:00
(1/7) : amazon2-core/2/x86_64/group.gp    | 2.5 kB | 00:00:00
(2/7) : amazon2-core/2/x86_64/updateinfo   | 577 kB | 00:00:00
(3/7) : amazon2-extra-docker/2/x86_64/updateinfo | 8.0 kB | 00:00:00
(4/7) : amazon2-extra-kernel-5.10/2/x86_64/updateinfo | 24 kB | 00:00:00
(5/7) : amazon2-extra-docker/2/x86_64/primary.db | 101 kB | 00:00:00
(6/7) : amazon2-extra-kernel-5.10/2/x86_64/primary.db | 15 MB | 00:00:00
(7/7) : amazon2-core/2/x86_64/primary.db   | 70 MB | 00:00:01
Resolving Dependencies
--> Running transaction check
--> Package httpd.x86_64 0:2.4.55-1.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.55-1.amzn2 for package: httpd-2.4.55-1.amzn2.x86_64
--> Processing Dependency: httpdfilesystem = 2.4.55-1.amzn2 for package: httpd-2.4.55-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.55-1.amzn2.x86_64
--> Processing Dependency: mod_httpd for package: httpd-2.4.55-1.amzn2.x86_64
--> Processing Dependency: httpdfilesystem for package: httpd-2.4.55-1.amzn2.x86_64
--> Processing Dependency: etc/mime.types for package: httpd-2.4.55-1.amzn2.x86_64
--> Processing Dependency: libapr1.so.0()(64bit) for package: httpd-2.4.55-1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.55-1.amzn2.x86_64
--> Running transaction check
Dependencies Resolved

Package Arch Version Repository Size
----
Installing:
httpd x86_64 2.4.55-1.amzn2 amazon2-core 1.4 M
Installing for dependencies:
apr x86_64 1.7.2-1.amzn2 amazon2-core 130 k
apr-util x86_64 0:1.6.3-1.amzn2.0.1 amazon2-core 101 k
apr-util-bdb x86_64 1.6.3-1.amzn2.0.1 amazon2-core 22 k
generic-logos-httpd noarch 10.0.0-4.amzn2 amazon2-core 19 k
httpdfilesystem noarch 2.4.55-1.amzn2 amazon2-core 24 k
httpd-tools x86_64 2.4.55-1.amzn2 amazon2-core 88 k
mailcap noarch 2.1.41-2.amzn2 amazon2-core 31 k
mod_http2 x86_64 1.15.19-1.amzn2.0.1 amazon2-core 149 k

Transaction Summary
Install 1 Package (+8 Dependent packages)
Total download size: 1.9 M
Installed size: 5.2 M
Is this ok [y/N]: y
Downloading packages:
(1/9) : apr-1.7.2-1.amzn2.x86_64.rpm | 130 kB | 00:00:00
```

i-058a6sec1a0311c29 (DefaultInstance)  
PublicIP: 3.85.145.226 PrivateIP: 172.32.0.165

Feedback Language

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30°C Mostly sunny

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-058a6sec1a0311c29&osUser=ec2-user&ss...

Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.55-1.amzn2.x86\_64

```
--> Running transaction check
--> Package apr.x86_64 0:1.7.2-1.amzn2 will be installed
--> Package apr-util.x86_64 0:1.6.3-1.amzn2.0.1 will be installed
--> Processing Dependency: apr-util-bdb.x86_64 = 1.6.3-1.amzn2.0.1 for package: apr-util-1.6.3-1.amzn2.0.1.x86_64
--> Package generic-logos-httpd.noarch 0:10.0.0-4.amzn2 will be installed
--> Package httpdfilesystem.noarch 0:2.4.55-1.amzn2 will be installed
--> Package httpd-tools.x86_64 0:2.4.55-1.amzn2 will be installed
--> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
--> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.1 will be installed
--> Running transaction check
--> Package apr-util-bdb.x86_64 0:1.6.3-1.amzn2.0.1 will be installed
--> Finished Dependency Resolution
Dependencies Resolved

Package Arch Version Repository Size
----
Installing:
httpd x86_64 2.4.55-1.amzn2 amazon2-core 1.4 M
Installing for dependencies:
apr x86_64 1.7.2-1.amzn2 amazon2-core 130 k
apr-util x86_64 0:1.6.3-1.amzn2.0.1 amazon2-core 101 k
apr-util-bdb x86_64 1.6.3-1.amzn2.0.1 amazon2-core 22 k
generic-logos-httpd noarch 10.0.0-4.amzn2 amazon2-core 19 k
httpdfilesystem noarch 2.4.55-1.amzn2 amazon2-core 24 k
httpd-tools x86_64 2.4.55-1.amzn2 amazon2-core 88 k
mailcap noarch 2.1.41-2.amzn2 amazon2-core 31 k
mod_http2 x86_64 1.15.19-1.amzn2.0.1 amazon2-core 149 k

Transaction Summary
Install 1 Package (+8 Dependent packages)
Total download size: 1.9 M
Installed size: 5.2 M
Is this ok [y/N]: y
Downloading packages:
(1/9) : apr-1.7.2-1.amzn2.x86_64.rpm | 130 kB | 00:00:00
```

i-058a6sec1a0311c29 (DefaultInstance)  
PublicIP: 3.85.145.226 PrivateIP: 172.32.0.165

Feedback Language

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The screenshot shows a terminal window within the AWS Management Console, connected to an Amazon Linux 2 instance. The terminal displays the output of a command to install several packages. The output is as follows:

```
Total download size: 1.9 M
Installed size: 5.2 M
Is this ok [y/d/N]: y
Downloading packages:
(1/9) : apr-1.7.2-1.amzn2.x86_64.rpm                | 130 kB  00:00:00
(2/9) : apr-util-1.6.3-1.amzn2.0.1.x86_64.rpm        | 101 kB  00:00:00
(3/9) : apr-util-bdb-1.6.3-1.amzn2.0.1.x86_64.rpm    | 22 kB   00:00:00
(4/9) : generic-logos-httpd-18.0.0-4.amzn2.noarch.rpm | 19 kB   00:00:00
(5/9) : httpd-filesystem-2.4.55-1.amzn2.noarch.rpm   | 24 kB   00:00:00
(6/9) : httpd-tools-2.4.55-1.amzn2.x86_64.rpm        | 88 kB   00:00:00
(7/9) : httpd-2.4.55-1.amzn2.x86_64.rpm             | 1.4 MB  00:00:00
(8/9) : mailcap-2.1.41-2.amzn2.noarch.rpm            | 31 kB   00:00:00
(9/9) : mod_httpd-1.15.19-1.amzn2.0.1.x86_64.rpm    | 149 kB  00:00:00
-----
Total                                           9.1 MB/s | 1.9 MB  00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : apr-1.7.2-1.amzn2.x86_64                1/9
Installing : apr-util-1.6.3-1.amzn2.0.1.x86_64        2/9
Installing : apr-util-bdb-1.6.3-1.amzn2.0.1.x86_64    3/9
Installing : httpd-tools-2.4.55-1.amzn2.x86_64        4/9
Installing : generic-logos-httpd-18.0.0-4.amzn2.noarch 5/9
Installing : mailcap-2.1.41-2.amzn2.noarch             6/9
Installing : httpd-filesystem-2.4.55-1.amzn2.noarch    7/9
Installing : mod_httpd-1.15.19-1.amzn2.0.1.x86_64     8/9
Installing : httpd-2.4.55-1.amzn2.x86_64             9/9
Verifying  : apr-util-bdb-1.6.3-1.amzn2.0.1.x86_64    1/9
Verifying  : httpd-2.4.55-1.amzn2.x86_64             2/9
Verifying  : apr-1.7.2-1.amzn2.x86_64                3/9
Verifying  : httpd-filesystem-2.4.55-1.amzn2.noarch    4/9
Verifying  : mailcap-2.1.41-2.amzn2.noarch            5/9
Verifying  : generic-logos-httpd-18.0.0-4.amzn2.noarch 6/9
Verifying  : mod_httpd-1.15.19-1.amzn2.0.1.x86_64     7/9
Verifying  : httpd-tools-2.4.55-1.amzn2.x86_64        8/9
Verifying  : apr-util-1.6.3-1.amzn2.0.1.x86_64        9/9

Installed:
i-058a65ec1a0311c29 (DefaultInstance)

PublicPip: 3.85.145.226  PrivatePip: 172.32.0.165
```

The terminal window is part of a web browser interface, with the AWS console URL visible in the address bar. The browser's taskbar at the bottom shows various application icons and system information, including the date and time (09-03-2023, 17:44).

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The screenshot displays a terminal window within the AWS Management Console, connected to an EC2 instance. The terminal shows the installation of various packages including `generic-logos-httpd-18.0.0-4.amzn2.noarch`, `mailcap-2.1.41-2.amzn2.noarch`, `httpd-filesystem-2.4.55-1.amzn2.noarch`, `mod_httpd-1.15.19-1.amzn2.0.1.x86_64`, `httpd-2.4.55-1.amzn2.x86_64`, `apr-util-bdb-1.6.3-1.amzn2.0.1.x86_64`, `apr-1.7.2-1.amzn2.x86_64`, `httpd-filesystem-2.4.55-1.amzn2.noarch`, `mailcap-2.1.41-2.amzn2.noarch`, `generic-logos-httpd-18.0.0-4.amzn2.noarch`, `mod_httpd-1.15.19-1.amzn2.0.1.x86_64`, `httpd-tools-2.4.55-1.amzn2.x86_64`, and `apr-util-1.6.3-1.amzn2.0.1.x86_64`. The installation is completed, and the user runs `sudo systemctl enable httpd` and `sudo systemctl start httpd`. A symlink is created from `/etc/systemd/system/multi-user.target.wants/httpd.service` to `/usr/lib/systemd/system/httpd.service`. The user then runs `echo "Hello Yesh" > /var/www/html/index.html` and `ls -l`, showing the file creation. The terminal output ends with `^C`.

Below the terminal window, the AWS console shows the instance details for `i-058a65ec1a0311c29 (DefaultInstance)`, with Public IP `3.85.145.226` and Private IP `172.32.0.165`.

The bottom of the screenshot shows a Windows taskbar with various application icons and a system tray displaying the date and time as 17:44 on 09-03-2023.

Hello Yesh

The screenshot shows a Windows taskbar with various application icons and a system tray displaying the date and time as 17:45 on 09-03-2023.