

TASK - 21

Nginx Customized web hosting

Creation of instance

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with navigation links: Dashboard, EC2 Global View, Events, Instances (selected), Instances Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Capacity Manager (New), Images (AMIs, AMI Catalog), and Elastic Block Store. The main area displays two instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
hosting.nginx	i-0bbd7399fadcbfd7	Running	t2.micro	2/2 checks passed	View alarms +	ap-southeast-1b	ec2-13-215-179-202.ap-southeast-1.compute.amazonaws.com
nginx_webhos...	i-01eb8ec13e4069426	Terminated	t2.micro	-	View alarms +	ap-southeast-1b	-

Installing packages and customizing

The screenshot shows the AWS CloudShell terminal. It starts with a welcome message for Amazon Linux 2023. Then, it shows the user logging in and installing Nginx via yum. Finally, it runs a wget command to download a file from templateemo.com.

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

Last login: Tue Oct 28 05:14:33 2025 from 3.0.5.35
[ec2-user@ip-172-31-23-55 ~]$ sudo su
[ec2-user@ip-172-31-23-55 ec2-user]# yum install nginx -y
Last metadata expiration check: 0:13:14 ago on Tue Oct 28 05:02:24 2025.
Package nginx-1:1.28.0-1.amzn2023.0.2.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-23-55 ec2-user]# mkdir hosting
[ec2-user@ip-172-31-23-55 ec2-user]# cd hosting
[ec2-user@ip-172-31-23-55 hosting]# wget -S --content-disposition https://templatemo.com/download/templatemo_570_chain_app_dev
--2025-10-28 05:16:28-- https://templatemo.com/download/templatemo_570_chain_app_dev
Resolving templatemo.com (templatemo.com)... 72.52.176.250
Connecting to templatemo.com (templatemo.com)|72.52.176.250|:443... connected.
HTTP request sent, awaiting response...
HTTP/1.1 302 Moved Temporarily
Date: Tue, 28 Oct 2025 05:16:30 GMT
Server: Apache/2.4.64 (CentOS)
```

i-0bbd7399fadcbfd7 (hosting.nginx)
PublicIPs: 13.215.179.202 PrivateIPs: 172.31.23.55

```
Expires: Wed, 29 Oct 2025 05:16:31 GMT
Content-Type: application/zip
Length: 1442262 (1.4M) [application/zip]
Saving to: 'templatemo_570_chain_app_dev.zip'

[...]
tempatemo_570_chain_app_dev.zip      100%[=====]   1.38M  284KB/s  in 5.1s
2025-10-28 05:16:36 (274 KB/s) - 'tempatemo_570_chain_app_dev.zip' saved [1442262/1442262]

[root@ip-172-31-23-55 hosting]# unzip tempatemo_570_chain_app_dev.zip
Archive: tempatemo_570_chain_app_dev.zip
  creating: tempatemo_570_chain_app_dev/
  creating: tempatemo_570_chain_app_dev/assets/
  creating: tempatemo_570_chain_app_dev/assets/css/
  inflating: tempatemo_570_chain_app_dev/assets/css/animated.css
  inflating: tempatemo_570_chain_app_dev/assets/css/fontawesome.css
  inflating: tempatemo_570_chain_app_dev/assets/css/owl.css
  inflating: tempatemo_570_chain_app_dev/assets/css/templatemo-chain-app-dev.css
  creating: tempatemo_570_chain_app_dev/assets/fonts/
  inflating: tempatemo_570_chain_app_dev/assets/fonts/Platicon.woff
  inflating: tempatemo_570_chain_app_dev/assets/fonts/flexslider-icon.eot
  inflating: tempatemo_570_chain_app_dev/assets/fonts/flexslider-icon.svg
  inflating: tempatemo_570_chain_app_dev/assets/fonts/flexslider-icon.ttf
  inflating: tempatemo_570_chain_app_dev/assets/fonts/flexslider-icon.woff
  inflating: tempatemo_570_chain_app_dev/assets/fonts/fontawesome.eot
  inflating: tempatemo_570_chain_app_dev/assets/fonts/fontawesome.svg
  inflating: tempatemo_570_chain_app_dev/assets/fonts/fontawesome-webfont.eot
  inflating: tempatemo_570_chain_app_dev/assets/fonts/fontawesome-webfont.svg
  inflating: tempatemo_570_chain_app_dev/assets/fonts/fontawesome-webfont.ttf
  inflating: tempatemo_570_chain_app_dev/assets/fonts/fontawesome-webfont.woff

i-0bbd7399fadcbfdf7 (hosting_nginx)

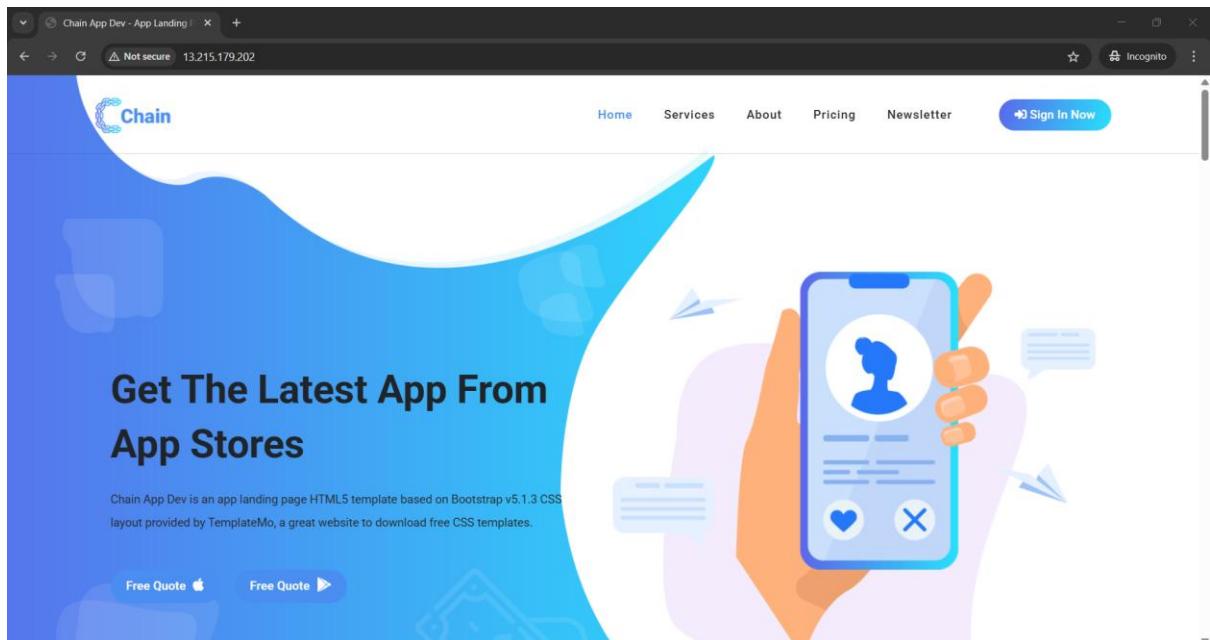
PublicIPs: 13.215.179.202 PrivateIPs: 172.31.23.55
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```

```
inflating: tempatemo_570_chain_app_dev/index.html
creating: tempatemo_570_chain_app_dev/vendor/
creating: tempatemo_570_chain_app_dev/vendor/bootstrap/
creating: tempatemo_570_chain_app_dev/vendor/bootstrap/css/
inflating: tempatemo_570_chain_app_dev/vendor/bootstrap/css/bootstrap.min.css
inflating: tempatemo_570_chain_app_dev/vendor/bootstrap/css/bootstrap.min.css.map
creating: tempatemo_570_chain_app_dev/vendor/bootstrap/js/
inflating: tempatemo_570_chain_app_dev/vendor/bootstrap/js/bootstrap.bundle.min.js
inflating: tempatemo_570_chain_app_dev/vendor/bootstrap/js/bootstrap.bundle.min.js.map
inflating: tempatemo_570_chain_app_dev/vendor/bootstrap/js/bootstrap.min.js
creating: tempatemo_570_chain_app_dev/vendor/jquery/
inflating: tempatemo_570_chain_app_dev/vendor/jquery/jquery.js
inflating: tempatemo_570_chain_app_dev/vendor/jquery/jquery.min.js
inflating: tempatemo_570_chain_app_dev/vendor/jquery/jquery.min.map
inflating: tempatemo_570_chain_app_dev/vendor/jquery/jquery.slim.js
inflating: tempatemo_570_chain_app_dev/vendor/jquery/jquery.slim.min.js
inflating: tempatemo_570_chain_app_dev/vendor/jquery/jquery.slim.min.map
[root@ip-172-31-23-55 hosting]# ls
tempatemo_570_chain_app_dev tempatemo_570_chain_app_dev.zip
[root@ip-172-31-23-55 hosting]# cd tempatemo_570_chain_app_dev
[root@ip-172-31-23-55 tempatemo_570_chain_app_dev]# /usr/share/nginx/html/index.html
bash: /usr/share/nginx/html/index.html: Permission denied
[root@ip-172-31-23-55 tempatemo_570_chain_app_dev]# sudo mv * /usr/share/nginx/html/
[root@ip-172-31-23-55 tempatemo_570_chain_app_dev]# cd /usr/share/nginx/html/
[root@ip-172-31-23-55 html]# pwd
/usr/share/nginx/html
[root@ip-172-31-23-55 html]# 

i-0bbd7399fadcbfdf7 (hosting_nginx)

PublicIPs: 13.215.179.202 PrivateIPs: 172.31.23.55
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```

Outcome



Changing the port number of nginx

Creation of instance

A screenshot of the AWS Management Console showing the EC2 Instances page. The left sidebar shows navigation options like Dashboard, EC2 Global View, Events, Instances (selected), Images, and Elastic Block Store. The main content area displays a table of instances. One instance is listed: 'nginx_webhos...' with Instance ID 'i-01eb8ec13e4069426', State 'Running', Type 't2.micro', and several status indicators. A 'Select an instance' dropdown is open below the table. The top of the page shows the URL 'ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#Instances:' and the AWS logo.

Changing port number of nginx from 80 to 84

The screenshot shows a terminal window titled "EC2 Instance Connect | ap-southeast-1" with the URL "ap-southeast-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=ap-southeast-1&connType=standard&instanceId=i-01eb8ec13e4069426&osUser=ec2-user&sshPort=22&addressFa...". The terminal output is as follows:

```
[root@ip-172-31-22-168 ec2-user]# yum install nginx -y
Last metadata expiration check: 0:00:59 ago on Tue Oct 28 04:48:21 2025.
Dependencies resolved.
=====
| Package           | Architecture | Version      | Repository | Size |
|=====|
| Installing:      |             |             |            |       |
|   nginx           | x86_64      | 1:1.28.0-1.amzn2023.0.2 | amazonlinux | 33 k  |
| Installing dependencies: |             |             |            |       |
|   generic-logos-httpsd | noarch     | 18.0.0-12.amzn2023.0.3 | amazonlinux | 19 k  |
|   gperftools-libs  | x86_64      | 2.9.1-1.amzn2023.0.3 | amazonlinux | 308 k |
|   libunwind        | x86_64      | 1.4.0-5.amzn2023.0.3 | amazonlinux | 66 k  |
|   nginx-core       | x86_64      | 1:1.28.0-1.amzn2023.0.2 | amazonlinux | 686 k |
|   nginx-fs         | noarch     | 1:1.28.0-1.amzn2023.0.2 | amazonlinux | 9.6 k  |
|   nginx-mimetypes | noarch     | 2.1.49-3.amzn2023.0.3 | amazonlinux | 21 k  |
| Transaction Summary |             |             |            |       |
| Install  7 Packages |             |             |            |       |
| total download size: 1.1 M |             |             |            |       |
| Installed size: 3.7 M |             |             |            |       |
| Downloading Packages: |             |             |            |       |
| (1/7): generic-logos-httpsd-18.0.0-12.amzn2023.0.3.noarch.rpm |             |             |            |       |
| (2/7): libunwind-1.4.0-5.amzn2023.0.3.x86_64.rpm |             |             |            |       |
| (3/7): gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64.rpm |             |             |            |       |
| (4/7): nginx-1.28.0-1.amzn2023.0.2.x86_64.rpm |             |             |            |       |
| (5/7): nginx-fs-1.28.0-1.amzn2023.0.2.x86_64.rpm |             |             |            |       |
| (6/7): nginx-mimetypes-2.1.49-3.amzn2023.0.3.x86_64.rpm |             |             |            |       |
| (7/7): nginx-1.28.0-1.amzn2023.0.2.x86_64.rpm |             |             |            |       |
|=====
| i-01eb8ec13e4069426 (nginx_webhosting) |             |             |            |       |
| PublicIP: 18.141.183.96 PrivateIP: 172.31.22.168 |             |             |            |       |
| CloudShell Feedback |             |             |            |       |
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```

The screenshot shows a terminal window titled "SecurityGroup | EC2 | ap-southeast-1" with the URL "ap-southeast-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=ap-southeast-1&connType=standard&instanceId=i-01eb8ec13e4069426&osUser=ec2-user&sshPort=22&addressFa...". The terminal output is as follows:

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

[ec2-user@ip-172-31-22-168 ~]$ sudo su
[root@ip-172-31-22-168 ec2-user]# yum update -y
Amazon Linux 2023 Kernel Livepatch repository
265 kB/s | 28 kB 00:00
=====
WARNING:
  A newer release of "Amazon Linux" is available.

Available Versions:
  Version 2023.9.20251027:
    Run the following command to upgrade to 2023.9.20251027:
      dnf upgrade --releasever=2023.9.20251027

  Release notes:
    https://docs.aws.amazon.com/linux/al2023/release-notes/relnotes-2023.9.20251027.html
=====
| i-01eb8ec13e4069426 (nginx_webhosting) |             |             |            |       |
| PublicIP: 18.141.183.96 PrivateIP: 172.31.22.168 |             |             |            |       |
| CloudShell Feedback |             |             |            |       |
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```

```

Loaded: loaded (/usr/lib/systemd/system/nginx.service; disabled; preset: disabled)
Active: active (running) since Tue 2025-10-28 04:51:10 UTC; 12s ago
  Process: 26293 ExecStartPre=/usr/bin/rm -f /run/nginx.pid (code=exited, status=0/SUCCESS)
  Process: 26294 ExecStartPre=/usr/sbin/nginx -t (code=exited, status=0/SUCCESS)
  Process: 26295 ExecStart=/usr/sbin/nginx (code=exited, status=0/SUCCESS)
Main PID: 26296 (nginx)
  Tasks: 2 (limit: 1106)
    Memory: 2,5M
      CPU: 39ms
     CGroup: /system.slice/nginx.service
             ├─26296 "nginx: master process /usr/sbin/nginx"
             └─26297 "nginx: worker process"

Oct 28 04:51:10 ip-172-31-22-168.ap-southeast-1.compute.internal systemd[1]: Starting nginx.service - The nginx HTTP and reverse proxy server...
Oct 28 04:51:10 ip-172-31-22-168.ap-southeast-1.compute.internal nginx[26294]: nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
Oct 28 04:51:10 ip-172-31-22-168.ap-southeast-1.compute.internal nginx[26294]: nginx: configuration file /etc/nginx/nginx.conf test is successful
Oct 28 04:51:10 ip-172-31-22-168.ap-southeast-1.compute.internal systemd[1]: Started nginx.service - The nginx HTTP and reverse proxy server.

[root@ip-172-31-22-168 ec2-user]# nano /etc/nginx/nginx.conf
[root@ip-172-31-22-168 ec2-user]# history
 1 yum update -y
 2 yum install nginx -y
 3 nano /etc/nginx/nginx.conf
 4 systemctl restart nginx
 5 systemctl status nginx
 6 nano /etc/nginx/nginx.conf
 7 history
[root@ip-172-31-22-168 ec2-user]#

```

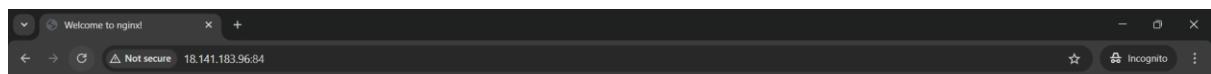
i-01eb8ec13e4069426 (nginx_webhosting)
Public IPs: 18.141.183.96 Private IPs: 172.31.22.168

Edit the inbound rules by adding changed port number

Inbound rules Info	Type Info	Protocol Info	Port range Info	Source Info	Description - optional Info
sgr-0c09f4c2affc21f7	HTTPS	TCP	443	Custom	<input type="text" value="0.0.0.0"/> Delete
sgr-032863bcd5838400f	SSH	TCP	22	Custom	<input type="text" value="0.0.0.0"/> Delete
sgr-0353a0b1b334cc733	HTTP	TCP	80	Custom	<input type="text" value="0.0.0.0"/> Delete
sgr-07599d547b691b5e0	Custom TCP	TCP	84	Custom	<input type="text" value="0.0.0.0"/> Delete

[Add rule](#) [Cancel](#) [Preview changes](#) [Save rules](#)

Outcome



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to [nginx.org](#).
Commercial support is available at [nginx.com](#).

Thank you for using nginx.