

ASSIGNMENT: 12

Deploy and run the project in AWS without using the port

Step 1: Create an instance in aws and then copy the ipv4 address

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Instances' page displays a table with one instance, 'ss_instance', with ID 'i-09bd33fc813c7fdea'. The instance is in a 'Running' state. The public IPv4 address is 43.204.229.219. A tooltip indicates 'Public IPv4 address copied'.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
ss_instance	i-09bd33fc813c7fdea	Running	t2.micro	Initializing		ap-south-1b	ec2-43-204-229-219.ap...	43.204.229.219	

i-09bd33fc813c7fdea (ss_instance)

Instance summary

Instance ID: i-09bd33fc813c7fdea

IPv6 address: -

Hostname type: IP name: ip-172-31-9-226.ap-south-1.compute.internal

Answer private resource DNS name: IPv4 (A)

Auto-assigned IP address: It is taking a bit longer than usual to fetch your data

Public IPv4 address: 43.204.229.219 | open address

Instance state: Running

Private IP DNS name (IPv4 only): ip-172-31-9-226.ap-south-1.compute.internal

Instance type: t2.micro

VPC ID: vpc-0160528951de6a910

Private IPv4 addresses: 172.31.9.226

Public IPv4 DNS: ec2-43-204-229-219.ap-south-1.compute.amazonaws.com | open address

Elastic IP addresses: It is taking a bit longer than usual to fetch your data

AWS Compute Optimizer finding: It is taking a bit longer than usual to fetch your data

Step 2: open it in bitvise

The screenshot shows the Bitvise SSH Client interface. The 'Default profile' is selected. The host is 43.204.229.219, the username is ubuntu, and the initial method is publickey. The terminal window shows the connection log.

Default profile

Login | Options | Terminal | RDP | SFTP | Services | C2S | S2C | SSH | Notes | About*

Server

Host: 43.204.229.219

Port: [] ☐ Enable obfuscation

Obfuscation keyword: []

Kerberos

SPN: []

☐ GSS/Kerberos key exchange

☐ Request delegation

☒ gssapi-keyex authentication

Authentication

Username: ubuntu

Initial method: publickey

Client key: Global 1

Passphrase: []

Elevation: Default

[Proxy settings](#) [Host key manager](#) [Client key manager](#) [Help](#)

23:27:33.548 First key exchange completed using Curve25519 (strict). Connection encryption and integrity: aes256-gcm, compression: none.

23:27:34.953 Attempting publickey authentication. Testing client key 'Global 1' for acceptance.

23:27:36.287 The client key 'Global 1' has been accepted.

23:27:36.287 Attempting publickey authentication. Signing with client key 'Global 1' using rsa-sha2-512.

23:27:36.385 Authentication completed.

23:27:38.259 Host key has been saved to the global database. Algorithm: ECDSA/nistp256, size: 256 bits, SHA-256 fingerprint: KKKjmsH1dBkU5Mc1dPr7WZz3AZV8DO0jHRKZJ2Z+FTY.

23:27:38.274 Host key has been saved to the global database. Algorithm: Ed25519, size: 255 bits, SHA-256 fingerprint: 8h4NqH/8tqnMKvu8AX1UpEZ9nPBdwQ90M9e4bsrHTsE.

23:27:38.274 Host key synchronization completed with 2 keys saved to global settings. Number of keys received: 3.

23:27:38.331 Terminal channel opened.

[Log out](#) [Exit](#)

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Step 3: open the bitvise terminal and run the command to change the directory after getting root -> etc -> nginx -> sites-available -> then default, then run this code using 'sudo systemctl restart nginx' command

```
ubuntu@13.203.215.4:22 - Bitvise xterm - ubuntu@ip-172-31-15-169: /etc/nginx/sites-available
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-15-169:~$ ls
ubuntu@ip-172-31-15-169:~$ cd /
ubuntu@ip-172-31-15-169:/$ ls
bin          dev          lib          lost+found  opt         run         snap        sys        var
bin usr-is-merged  etc         lib usr-is-merged  media      proc       sbin      somnath  tmp
boot         home        lib64       mnt        root       sbin usr-is-merged  srv       usr

ubuntu@ip-172-31-15-169:/$ cd etc/
ubuntu@ip-172-31-15-169:/etc$ cd nginx/
ubuntu@ip-172-31-15-169:/etc/nginx$ ls
conf.d      koi-utf      modules-available  proxy_params  sites-enabled  win-utf
fastcgi.conf  koi-win      modules-enabled    scgi_params  snippets
fastcgi_params  mime.types  nginx.conf         sites-available  uwsgi_params
ubuntu@ip-172-31-15-169:/etc/nginx$ cd sites-available/
ubuntu@ip-172-31-15-169:/etc/nginx/sites-available$ ls
default
ubuntu@ip-172-31-15-169:/etc/nginx/sites-available$ sudo nano default
ubuntu@ip-172-31-15-169:/etc/nginx/sites-available$ sudo systemctl restart nginx
Job for nginx.service failed because the control process exited with error code.
See "systemctl status nginx.service" and "journalctl -xeu nginx.service" for details.
ubuntu@ip-172-31-15-169:/etc/nginx/sites-available$
```

Step4: In this tab in the 'sudo nano default' command ,we are just write code in the location part and then exit

```
GNU nano 7.2          default *
#
# Read up on ssl_ciphers to ensure a secure configuration.
# See: https://bugs.debian.org/765782
#
# Self signed certs generated by the ssl-cert package
# Don't use them in a production server!
#
# include snippets/snakeoil.conf;

root /var/www/html;

# Add index.php to the list if you are using PHP
index index.html index.htm index.nginx-debian.html;

server_name _;

location / {
    # First attempt to serve request as file, then
    # as directory, then fall back to displaying a 404.
    proxy_pass http://localhost:4000;
    proxy_http_version 1.1;
    proxy_set_header Upgrade $http_upgrade;
    proxy_set_header Connection 'Upgrade';
    proxy_set_header Host $host;
    proxy_cache_bypass $http_upgrade;
}

# pass PHP scripts to FastCGI server
#
#location ~ \.php$ {
^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute   ^C Location  M-U Undo
^X Exit      ^R Read File  ^_ Replace    ^U Paste      ^J Justify   ^_ Go To Line M-E Redo
```

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Step 5: then again open the instance and copy the ipv4 and open it with another window with :4000

