

Assignment 7: Upload a static website in EC2 Server.

1. Creating a EC2 server

- Go to **EC2 Management Console** and click **Launch Instance**.
- Give name of the Instance and choose Ubuntu as OS.
- Create a Key Pair and check all the checkboxes for SSH, HTTP and HTTPS traffic in Network Settings.

☒ 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. Security group rules to allow access from known IP addresses only.

Name and tags [Info](#)

Name
Instance1 [Add additional tags](#)

▼ **Application and OS Images (Amazon Machine Image)** [Info](#)
An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Q Search our full catalog including 1000s of application and OS images

Quick Start

Amazon Linux macOS **Ubuntu** Windows Red Hat S

[Browse more AMIs](#)
Including AMIs from AWS, Marketplace and the Community

- Click **Launch Instance**.

2. Open the **Bitwise SSH Client Application** and go to **Login Options**.

- Click **Client Key Manager**, remove all existing keys and import the key downloaded during creating instance.

Bitwise Client Key Management | Cryptographic provider: Windows CNG (x86) with additions

Client Key Manager

You have the following SSH user authentication keys:

Location	Algorithm	Size	Passp...	SHA-256 Fingerprint	MD5 Fingerprint	Bubble Babble	Comment
Client keys supported by the current crypto provider (1):							
Global 1	RSA	2048	no	+GRZMD2JgPHIoXjIRxePse84twv...	1d:ac:7c:46:42:eb:...	xumag-pydet-kinez-...	

- Copy-paste the public IPv4 address of the instance in the Host, give Username as **Ubuntu**.

- Click Login, **Accept and Save**. In **User Authentication Window** set the Client Key as **Global 1** and press OK.

Bitwise SSH Client 9.27

Default profile [Window behavior](#)

Load profile Save profile as New profile Reset profile

Login Options Terminal RDP SFTP Services C2S S2C SSH Notes About

Server
Host 3.26.220.225
Port ☐ Enable obfuscation
Obfuscation keyword

Authentication
Username ubuntu
Initial method none
Elevation Default

Kerberos
SPN
☐ GSS/Kerberos key exchange
☐ Request delegation
☒ gssapi-keyex authentication

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

23:13:48.168 Bitwise SSH Client 9.27, a fully featured SSH client for Windows. Copyright (C) 2000-2023 by Bitwise Limited.
23:13:48.168 Visit www.bitwise.com for latest information about our SSH software.
23:13:48.168 Run 'bVssh -help' to learn about supported command-line parameters.
23:13:48.168 Cryptographic provider: Windows CNG (x86) with additions
23:13:48.516 Version status: Unknown
The status of the currently installed version is unknown because there has not been a recent, successful check for updates.
23:13:48.567 Loading default profile.
23:13:48.567 Loading default profile failed: RegOpenKeyExW() failed: Windows error 2: The system cannot find the file specified.
23:13:48.567 Loading a blank profile.
23:13:50.678 Automatic check for updates completed successfully.
23:13:50.678 Version status: Current
This is the latest release.

Log in Exit

User Authentication

Connecting to: **3.26.220.225:22**

Username

Method

[Client key](#)

Passphrase

OK Cancel

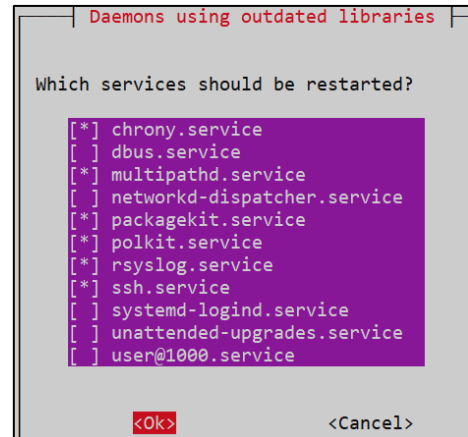
6. Open **New Terminal Console**.
7. Execute the commands: i) `sudo apt-get update` ii) `sudo apt-get upgrade`

```
ubuntu@ip-172-31-21-246:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-21-246:~$ sudo apt-get update
Hit:1 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]

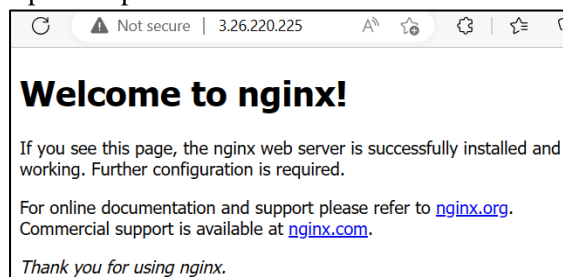
ubuntu@ip-172-31-21-246:~$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
```

8. Click OK in the window which appears.
9. Execute `sudo apt-get install nginx`. Click OK in the window which appears.

```
No VM guests are running outdated hypervisor (qemu) binaries on this VM.
ubuntu@ip-172-31-21-246:~$ sudo apt-get install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```



10. Open the public IPv4 address in a browser.

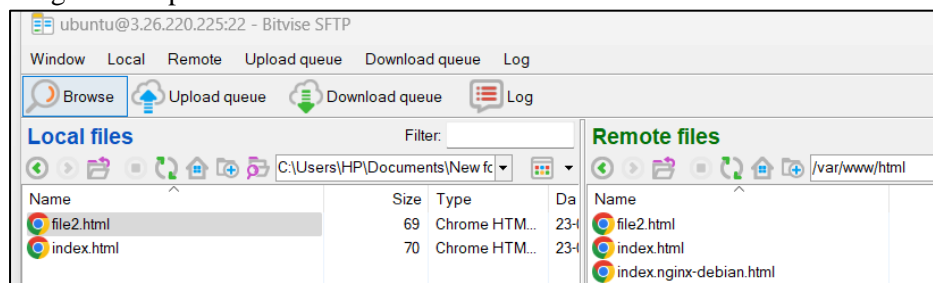


11. Go to **Bitvise SSH Client Application** and open **New SFTP Window**.
12. In the terminal give command `cd /var/www/` and press Enter. Now give the permission:

Execute `sudo chmod 777 html`

```
ubuntu@ip-172-31-29-120:/var/www$ sudo chmod 777 html
ubuntu@ip-172-31-29-120:/var/www$ ls -a
. . . html
ubuntu@ip-172-31-29-120:/var/www$ ls -la
total 12
drwxr-xr-x  3 root root 4096 Mar 23 17:49 .
drwxr-xr-x 14 root root 4096 Mar 23 17:49 ..
drwxrwxrwx  2 root root 4096 Mar 23 17:49 html
```

13. In the SFTP Window, in **Remote Files** navigate to `var/www/html` folder.
14. Drag and Drop the html files from **Local files** to `var/www/html` folder in **Remote Files**.



15. Refresh the website. Website is successfully uploaded.

