

Placement Empowerment Program

Cloud Computing and DevOps Centre

Host a Static Website on a Cloud VMInstall

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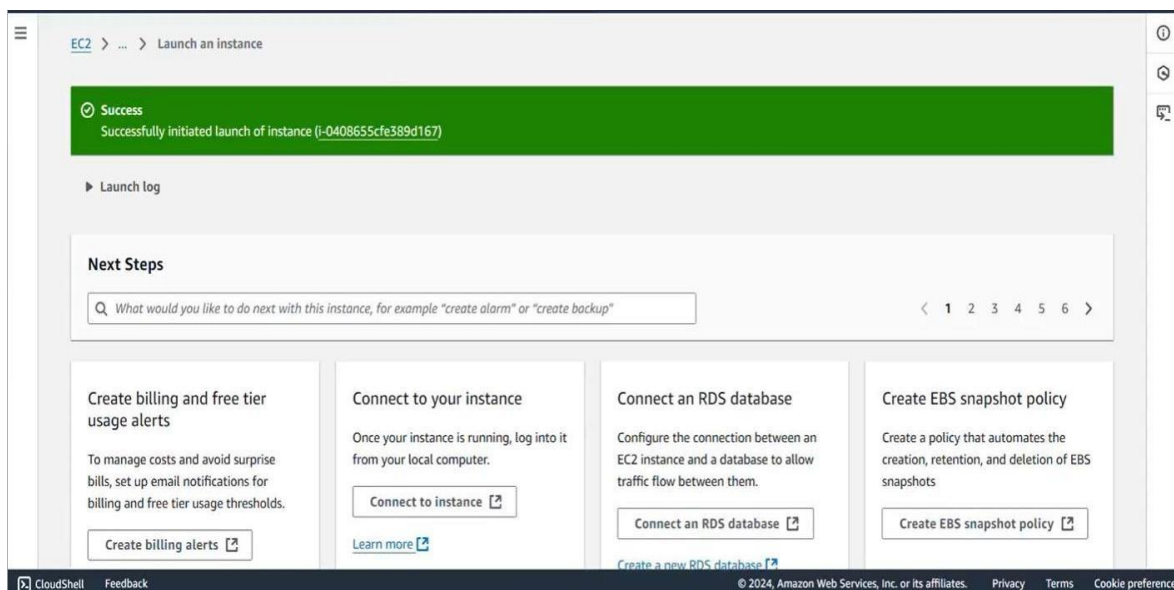
Introduction and overview

Hosting a Static Website on a Cloud VM is a fantastic way to make your content accessible to the world. By using a Cloud Virtual Machine (VM), you gain flexibility, control, and scalability.

Step-by-Step Overview

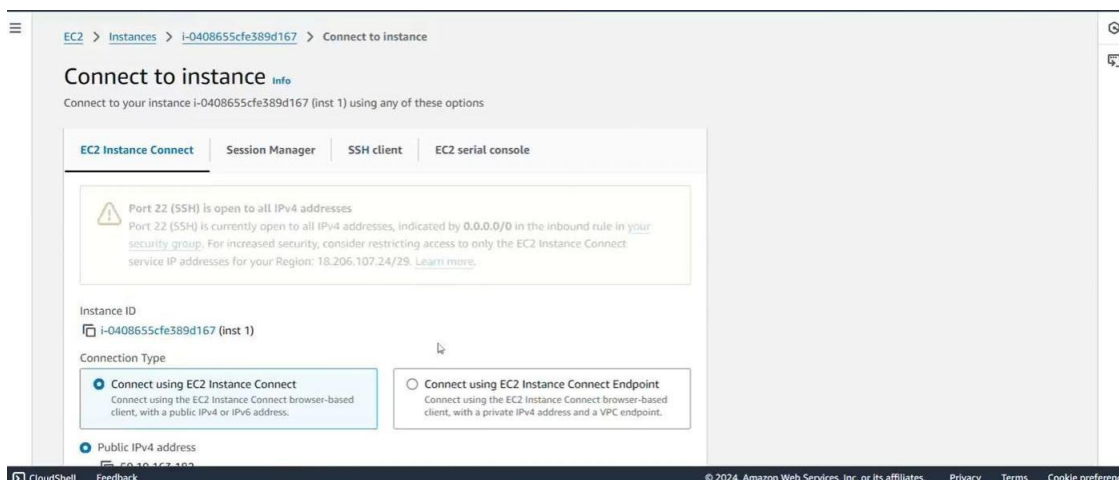
Step1:

Launch a Cloud VM Instance:



Step 2 :

Connect to Your VM(instance)



Step 3 :

Install a Web Server (Apache or Nginx):

```
o user sessions are running outdated binaries.
o VM guests are running outdated hypervisor (qemu) binaries on this host.
buntu@ip-172-31-21-233:~$ sudo systemctl start nginx
buntu@ip-172-31-21-233:~$ sudo systemctl enable nginx
Synchronizing state of nginx.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable nginx
buntu@ip-172-31-21-233:~$ sudo systemctl status nginx
nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)
   Active: active (running) since Wed 2024-10-30 10:03:19 UTC; 1min 30s ago
     Docs: man:nginx(8)
    Main PID: 2003 (nginx)
      Tasks: 2 (limit: 1130)
    Memory: 1.7M (peak: 1.9M)
       CPU: 12ms
    CGroup: /system.slice/nginx.service
            └─2003 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
              └─2004 "nginx: worker process"

Oct 30 10:03:19 ip-172-31-21-233 systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server...
Oct 30 10:03:19 ip-172-31-21-233 systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server.
buntu@ip-172-31-21-233:~$
```

Step 4 :

Ensure your site is accessible via the VM's IP address.

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.

Step 5 :

Transfer your HTML, CSS, and other static assets to the VM.

```
buntu@ip-172-31-21-233:~$ cd /var/www/html
buntu@ip-172-31-21-233:/var/www/html$ ls
index.nginx-debian.html
buntu@ip-172-31-21-233:/var/www/html$ sudo chmod -R 777 ./
buntu@ip-172-31-21-233:/var/www/html$ sudo nano /var/www/html/index.html
buntu@ip-172-31-21-233:/var/www/html$
```

Step6:

Deploy the website



Expected Outcome

Hosting a static website on a cloud VM involves creating a VM instance on your chosen cloud platform, connecting to it via SSH, installing a web server (Apache or Nginx), uploading your HTML and static files to the server's root directory, configuring the web server to serve your site, restarting the server to apply changes, and finally testing your website to ensure it's accessible via the VM's external IP address. Optionally, you can secure your site with an SSL certificate to enable HTTPS. This process enables you to have a fully functioning static website live on the internet.