

**Placement Empowerment Program**

***Cloud Computing and DevOps Centre***

**Host a Static Website on a Cloud VMInstall**

**Apache/Nginx on your cloud VM and host a simple HTML website.**

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**Introduction**

**Hosting a static website on a cloud virtual machine is a fundamental step in understanding web server setup and deployment. This task demonstrates how to install a web server (Apache or Nginx), transfer HTML files, and serve a static website over the internet.**

**Objectives**

1. **Learn how to install and configure a web server (Apache or Nginx) on a cloud VM.**
2. **Transfer static website files to the VM using SCP.**
3. **Serve the static website from the cloud VM and access it via a web browser.**

**Steps**

1. **Connect to the Cloud VM:** o **Use the SSH command to access your cloud VM:**

**ssh <user>@<IP\_address>**

* + **Replace <user> with the default username for your cloud provider (e.g., ec2-user for AWS or azureuser for Azure) and <IP\_address> with the VM’s public IP address.**

1. **Install Apache or Nginx:** o **Update the package list:**

**sudo apt update**

* + **Install Apache:**

**sudo apt install apache2 -y OR Install Nginx:**

**sudo apt install nginx -y**

1. **Transfer HTML Files to the VM:** 
   * **Use SCP (Secure Copy Protocol) to transfer HTML files from your local machine to the server:**

**scp index.html <user>@<IP\_address>:/var/www/html/**

1. **Configure the Web Server:** 
   * **Start the web server:**

**sudo systemctl start apache2**

**OR**

**sudo systemctl start nginx**

* + **Verify that the web server is running:**

**sudo systemctl status apache2**

**OR**

**sudo systemctl status nginx**

1. **Access the Website:** 
   * **Open a web browser and navigate to the public IP address of your VM:**

**http://<IP\_address>.**

* + **You should see your static HTML website displayed.**

**Key Learnings**

* **Basics of web server installation and configuration.**
* **Transferring files securely using SCP.**
* **Hosting and accessing a static website on a cloud-based virtual machine.**

**References**

* **AWS EC2 Apache Setup Guide**