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**Placement Empowerment Program**

***Cloud Computing and DevOps Centre***

**TASK-9 Set up a VIRTUAL MACHINE on a cloud VM: Launch a Virtual Machine and SSH into it.**

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**Introduction**

Virtual Machines (VMs) are essential components of cloud computing, enabling users to run applications and services in an isolated, scalable environment. Setting up a VM on the cloud provides flexibility, cost efficiency, and ease of management compared to traditional on-premises servers. By using cloud-based VMs, users can quickly deploy, configure, and access powerful computing resources as needed.

**Overview**

This PoC involves launching a Virtual Machine on a cloud platform, configuring its resources, and securely connecting to it using SSH. Cloud providers like AWS, Azure, and Google Cloud offer various VM options with different operating systems, storage, and networking configurations. Once deployed, the VM can be accessed remotely to install software, run applications, or perform administrative tasks.

**Objectives**

✅ Deploy a Virtual Machine on a cloud platform  
✅ Configure necessary settings like OS, CPU, memory, and disk storage  
✅ Establish a secure SSH connection to access and manage the VM remotely  
✅ Verify connectivity and test basic commands within the VM environment

**Step-By-Step Overview:**

**Step 1:**

Login to your “azure portal”**A screenshot of a computer

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**Step 2:**

Search for “virtual machines” or click on add resources view all services.

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**Step 3:**

Click on “create” option and give some following details:

1.choose your subscription.

2.choose your resource group or create new.

3.assign a name for your vm.

4.choose region.

5.choose availability zones

6.set to ssh key and name**.**

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**Step 4:**

Check validation passed and if you give all details correct.

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**Step 5:**

Then deploy your virtual machine.

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**Step 6:**

Once you created click on “connect” then go on with SSH

Connection.

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**Step 7:**

Go to your powershell in your local machines.

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**Step 7:**

Enter the command **“ ssh -I <private key path> azureuser@ip “**

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**Step 7:**

Enter “yes” to connect your virtual machine and your local machine using SSH.

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Finally your virtual machine is deployed and connected using SSH.