

Task No-1

Create a virtual machine (VM) on Microsoft Azure/AWS, configure it within a resource group and ensure basic security measures are implemented.

Virtual machine:

Virtual machine is a digital version of physical computer. In computing, a virtual machine is the virtualization of a computer system. VMs are based on computer architecture and provide the functionality of physical computer.

Create a virtual machine (VM) on AWS:

- I am using AWS cloud platform.
- Go to AWS console, Open ec2 services, select instances
- Create Launch instance (I am following these steps)
 - Instance Name: aws-vm
 - Ami: ubuntu
 - Instance type: t2.micro
 - Key pair: create and download key [for ssh]
 - Add Network settings (vpc "0ef0688a17e959814", subnet "01ed783cf32f81204", security groups "SSH-port-22")
 - Add Configure storage
- Launch instance
- Instance ID: [i-0e2689586c0870699](#)

Instances (1) Info

Find Instance by attribute or tag (case-sensitive)

Any state

< 1 >

Name

Instance ID

Instance state

Instance type

Status check

Alarm status

Availability Zone

Public IP

aws-vm

i-0e2689586c0870699

Running

t2.micro

2/2 checks passed

View alarms

ap-south-1b

ec2-13-2

Instance summary for i-Oe2689586c0870699 (aws-vm) Info

Updated less than a minute ago

[Refresh](#) [Connect](#) [Instance state](#) [Actions](#)

Instance ID i-Oe2689586c0870699 (aws-vm)	Public IPv4 address 13.233.163.1 open address	Private IPv4 addresses 172.31.7.81
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-13-233-163-1.ap-south-1.compute.amazonaws.com open address
Hostname type IP name: ip-172-31-7-81.ap-south-1.compute.internal	Private IP DNS name (IPv4 only) ip-172-31-7-81.ap-south-1.compute.internal	
Answer private resource DNS name IPv4 (A) 13.233.163.1 [Public IP]	Instance type t2.micro	Elastic IP addresses -
Auto-assigned IP address 13.233.163.1 [Public IP]	VPC ID vpc-0ef0688a17e959814 (Default VPC) open	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
IAM Role -	Subnet ID subnet-01ed783cf32f81204 open	Auto Scaling Group name -
IMDSv2 Required		

[Details](#) [Status and alarms](#) [New](#) [Monitoring](#) [Security](#) [Networking](#) [Storage](#) [Tags](#)

Create resource groups

- Go to aws resource groups, create resource groups

[AWS Resource Groups](#) > [Saved resource groups](#) > [RG-aws](#)

RG-aws

Group details

Group name
RG-aws

Group ARN
[arn:aws:resource-groups:ap-south-1:393255986677:group/RG-aws](#)

Group type and grouping criteria

Group type
Tag based

Resource types
[AWS::EC2::Instance](#)

I Configured the instance into a resource group

Group resources (1) [Export resource to CSV](#)

Identifier	Tag: Name	Service	Type	Region	Tags
i-Oe2689586c0870699	aws-vm	EC2	Instance	ap-south-1	1

