

# AWS DAY 5 & 6

## PROJECT 1

### TASK 1

Creating a bootstrapped instance

Instances (1/3) Info

Filter instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone	Public IPv4 DNS	Public IPv4 ...	Elastic Ip
<input type="checkbox"/>	task 2	i-05802e5bfd8e0c277	Running	t2.micro	2/2 checks ...	No alarms +	us-east-2c	ec2-3-19-31-41.us-eas...	3.19.31.41	-
<input type="checkbox"/>	task3	i-0c849aff609524f76	Running	t2.micro	2/2 checks ...	No alarms +	us-east-2c	ec2-3-133-87-195.us-...	3.133.87.195	-
<input checked="" type="checkbox"/>	task 1	i-0dab955f5e6af95fd	Running	t2.micro	2/2 checks ...	No alarms +	us-east-2b	ec2-3-15-40-54.us-eas...	3.15.40.54	-

Instance: i-0dab955f5e6af95fd (task 1)

Details

Security

Networking

Storage

Status Checks

Monitoring

Tags

▼ Instance summary Info

Instance ID

i-0dab955f5e6af95fd (task 1)

Instance state

Running

Instance type

t2.micro

Public IPv4 address

3.15.40.54 | open address

Private IPv4 addresses

172.31.26.252

Public IPv4 DNS

ec2-3-15-40-54.us-east-2.compute.amazonaws.com | open address

Private IPv4 DNS

ip-172-31-26-252.us-east-2.compute.internal

Elastic IP addresses

vpc-564fec3d

EC2 Dashboard New

Events New

Tags

Limits

Instances

Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups New

Elastic IPs New

Placement Groups New

Key Pairs New

Network Interfaces

Feedback

English (US)

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ENG

SO\_Juill\_2023

Create New IAM Role

Shutdown behavior

Stop

☐ Enable hibernation as an additional stop behavior

☐ Protect against accidental termination

☐ Enable CloudWatch detailed monitoring

Additional charges apply.

Stop - Hibernate behavior

☐ Run a shared hardware instance

Additional charges will apply for dedicated tenancy.

Enable termination protection

☐ Add an Elastic Inference accelerator

Additional charges apply.

Monitoring

Tenancy

Elastic Inference

Credit specification

☐ Unlimited

Additional charges may apply

File systems

Add file system

Create new file system

Advanced Details

Metadata accessible

Enabled

Metadata version

V1 and V2 (token optional)

Metadata token response hop limit

1

User data

☒ As text ☐ As file ☐ Input is already base64 encoded

```
#!bin/bash
yum install httpd -y
aws s3 cp s3://nas333/index.html /var/www/html
chkconfig httpd on
```



[illegible]

### Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances1Launch into Auto Scaling Group

Purchasing optionRequest Spot instances

Networkvpc-564fec3d (default)Create new VPC

SubnetNo preference (default subnet in any Availability Zone)Create new subnet

Auto-assign Public IPUse subnet setting (Enable)

Placement groupAdd instance to placement group

Capacity ReservationOpen

Domain join directoryNo directoryCreate new directory

IAM roleS3\_full\_accessCreate new IAM role

Shutdown behaviorStop

Stop - Hibernate behaviorEnable hibernation as an additional stop behavior

Enable termination protectionProtect against accidental termination

MonitoringEnable CloudWatch detailed monitoringAdditional charges apply

TenancyShared - Run a shared hardware instanceAdditional charges will apply for dedicated tenancy

Elastic InferenceAdd an Elastic Inference acceleratorAdditional charges apply

Credit specificationUnlimited

CancelReview and LaunchNext: Add Storage

FeedbackEnglish (US)

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17:4914-10-2020ENG

Connect to instance | EC2 | X

us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-05802e5bfd8e0c277

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Amazon Linux 2 AMI

```
https://aws.amazon.com/amazon-linux-2/
2 package(s) needed for security, out of 13 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-37-204 ~]$ sudo su
[root@ip-172-31-37-204 ec2-user]# aws s3 ls
[root@ip-172-31-37-204 ec2-user]# aws s3 mb s3://letsupgrade3868
make_bucket: letsupgrade3868
[root@ip-172-31-37-204 ec2-user]#
```

i-05802e5bfd8e0c277 (task 2)

Public IPs: 3.19.31.41 Private IPs: 172.31.37.204

17:54 14-10-2020

S3 Management Console | i-05802ebfdd8c0277 (bas) | i-0aa95f5e6af95fd | EC2: X | Test Page for the Apache H... | +  
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aws Services  

Amazon S3

BucketsBatch operationsAccess analyzer for S3Block public access (account settings)Feature spotlight

Access S3-backed file shares on premises and reduce local storage costs using AWS Storage Gateway. Learn more »Documentation

We've temporarily re-enabled the previous version of the S3 console while we continue to improve the new S3 console experience. Switch to the new console.

S3 buckets

Search for buckets

Create bucketEdit public access settingsEmptyDelete

All access typesDiscover the console

☐ Bucket name

letsupgrade3868

Access ⓘ

Region ▼

Date created ▼

Objects can be public

US East (N. Virginia)

Oct 14, 2020 5:54:18 PM GMT+0530

1 Buckets1 Regions



## Task 3: Hosting a webpage using the bootstrap script on ec2.

The screenshot displays the AWS Management Console interface for an Amazon S3 bucket named 'task3s3'. The breadcrumb navigation shows 'Amazon S3 > task3s3'. The 'Overview' tab is selected, showing a search bar with the placeholder text 'Type a prefix and press Enter to search. Press ESC to clear.' Below the search bar, there are buttons for 'Upload', '+ Create folder', 'Download', and 'Actions'. The bucket is located in the 'US East (Ohio)' region. A table lists the objects in the bucket:

Name	Last modified	Size	Storage class
<input type="checkbox"/> index.html	Oct 14, 2020 6:13:52 PM GMT+0530	22.0 B	Standard

The bottom of the console shows the AWS logo, 'Services', and the language 'English (US)'. The top of the browser window shows the address bar with the URL 's3.console.aws.amazon.com/s3/buckets/task3s3/' and various browser tabs and extensions.



Instances | EC2 Management

us-east-2.console.aws.amazon.com/ec2/v2/home

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Content blocker

manoj K | Ohio | Support

Instances (1/3) Info

Filter instances

Launch Instances

Actions

	Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone	Public IPv4 DNS	Elastic Ip
<input type="checkbox"/>	task 2	i-05802e5bfb8e0c277	Running	t2.micro	2/2 checks ...	No alarms +	us-east-2c	ec2-3-19-31-41.us-eas...	3.19.31.41
<input checked="" type="checkbox"/>	task3	i-0c849aff609524f76	Running	t2.micro	2/2 checks ...	No alarms +	us-east-2c	ec2-3-133-87-195.us-...	3.133.87.195
<input type="checkbox"/>	task 1	i-0dab955f5e6af95fd	Running	t2.micro	2/2 checks ...	No alarms +	us-east-2b	ec2-3-15-40-54.us-eas...	3.15.40.54

Instance: i-0c849aff609524f76 (task3)

Details

Security

Networking

Storage

Status Checks

Monitoring

Tags

▼ Instance summary Info

Instance ID

i-0c849aff609524f76 (task3)

Instance state

Running

Instance type

t2.micro

Public IPv4 address copied

3.133.87.195 | open address

Private IPv4 addresses

172.31.43.135

Public IPv4 DNS

ec2-3-133-87-195.us-east-2.compute.amazonaws.com | open address

Elastic IP addresses

-

VPC ID

vpc-564fec3d

EC2 Dashboard

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMI's

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Elastic IP's

Placement Groups

Key Pairs

Networks/Interfaces

https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#

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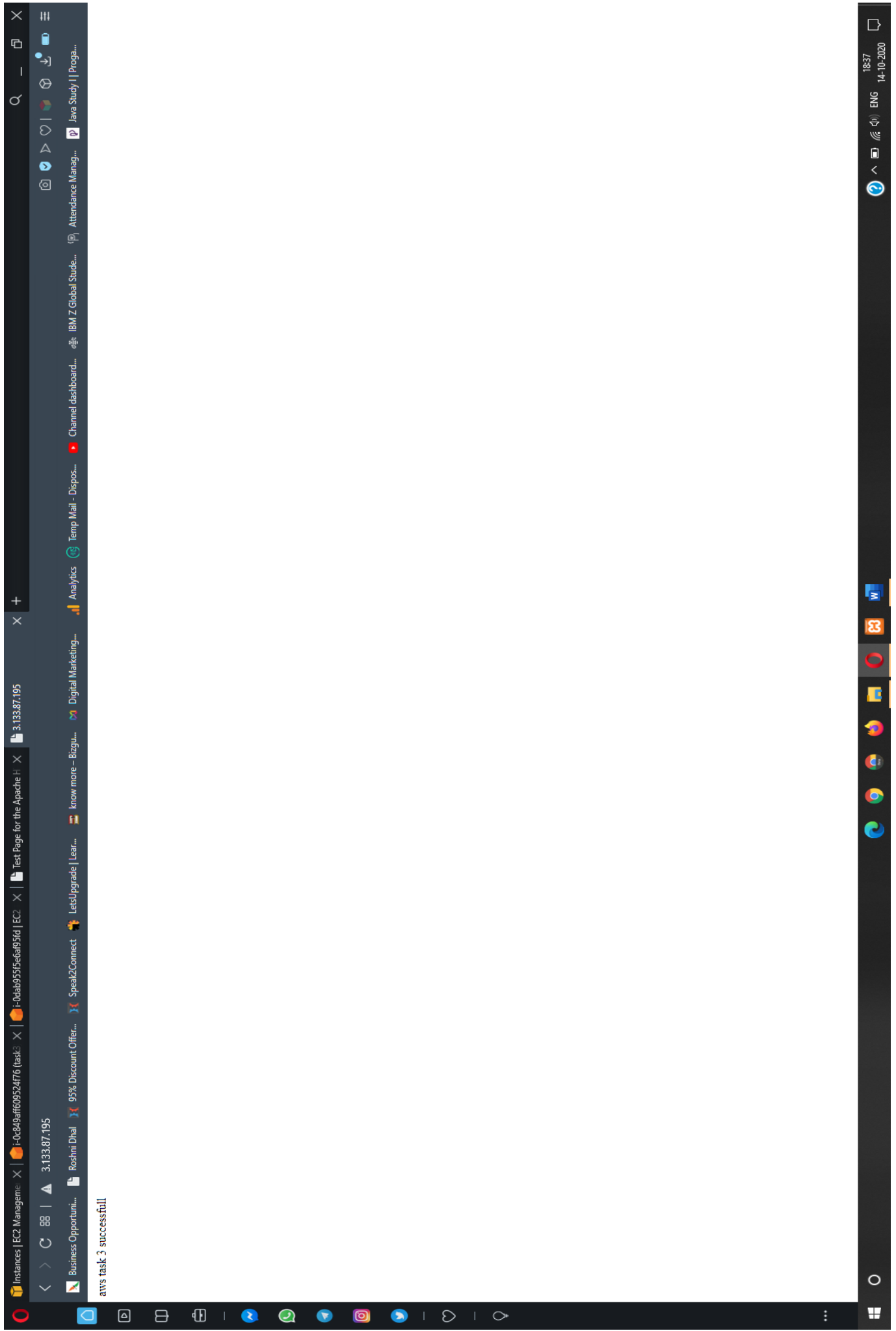
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# PROJECT 2

## Creating an EC2 instance in custom VPC

### TASK 1 : Create a VPC

The screenshot displays the AWS Management Console interface. The top navigation bar shows the user is logged in as 'marcj K' in the 'Ohio' region. The left-hand navigation pane lists various services, including 'Your VPCs', 'VPC Dashboard', 'Subnets', 'Route Tables', 'Internet Gateways', 'Egress Only Internet Gateways', 'DHCP Options Sets', 'Elastic IPs', 'Managed Prefix Lists', 'Endpoints', 'Endpoint Services', 'NAT Gateways', 'Peering Connections', 'SECURITY', 'Network ACLs', 'Security Groups', 'VIRTUAL PRIVATE NETWORK (VPN)', 'Customer Gateways', 'Virtual Private Gateways', and 'Site-to-Site VPN'.

The main content area is divided into two sections. The top section, titled 'Your VPCs (1/2)', shows a table of VPCs. The table has columns for Name, VPC ID, State, IPv4 CIDR, IPv6 CIDR, IPv6 pool, and DHCP. The VPC 'demovpc' is selected, and its details are shown in the bottom section.

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	IPv6 pool	DHCP
-	vpc-564fec3d	Available	172.31.0.0/16	-	-	dopt-b
demovpc	vpc-0b381ecc31fbcdbb9	Available	172.19.0.0/16	-	-	dopt-b

The details for the VPC 'demovpc' (vpc-0b381ecc31fbcdbb9) are shown below. The details are organized into sections: VPC ID, Tenancy, Default VPC, Owner ID, State, DHCP options set, IPv4 CIDR, DNS hostnames, DNS resolution, Network ACL, and IPv6 CIDR.

Section	Value
VPC ID	vpc-0b381ecc31fbcdbb9
Tenancy	Default
Default VPC	No
Owner ID	245024665952
State	Available
DHCP options set	dopt-b2a521d9
IPv4 CIDR	172.19.0.0/16
DNS hostnames	Disabled
DNS resolution	Enabled
Network ACL	acl-0bc20b078986fa7ac
IPv6 CIDR	-

## Task 2: Create an Internet gateway

The screenshot shows the AWS Management Console interface for the 'Internet gateways' page. The top navigation bar includes the AWS logo, a search bar, and various service links. The left sidebar shows the 'Internet gateways' section selected under the 'VPC' category.

The main content area displays a list of Internet gateways. The table has columns for Name, Internet gateway ID, State, VPC ID, and Owner. One gateway is listed with the name 'demoigw' and ID 'igw-0f709d922c5ec5867', which is in the 'Attached' state and associated with VPC 'vpc-0b381ecc31fbcdbb9'.

The details for the selected gateway 'igw-0f709d922c5ec5867 / demoigw' are shown on the right. The details section includes the Internet gateway ID, State (Attached), VPC ID, and Owner.

Name	Internet gateway ID	State	VPC ID	Owner
demoigw	igw-0f709d922c5ec5867	Attached	vpc-0b381ecc31fbcdbb9	245024665952

Internet gateways (1/2) Info

Filter internet gateways

Create internet gateway

Actions

igw-0f709d922c5ec5867 / demoigw

Details Tags

Internet gateway ID

igw-0f709d922c5ec5867

State

Attached

VPC ID

vpc-0b381ecc31fbcdbb9 | demovpc

Owner

245024665952

Details

Internet gateway ID

igw-0f709d922c5ec5867

State

Attached

VPC ID

vpc-0b381ecc31fbcdbb9 | demovpc

Owner

245024665952

# Task3: Create a route table

Edit routes | VPC Manager | X +

us-east-2.console.aws.amazon.com/vpc/home

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aws Services

Route Tables > Edit routes

## Edit routes

Destination	Target	Status	Propagated
172.19.0.0/16	local	active	No
0.0.0.0/0	igw-0f709d92c5ec5867	active	No

Add route

\* Required

Cancel Save routes

Feedback English (US)

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18:15 15-10-2020

# Task4: Create a subnet

Subnets | VPC Manager

us-east-2.console.aws.amazon.com/vpc/home

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aws Services

New VPC Experience  
Tell us what you think

VPC Dashboard

Filter by VPC:  
Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

SECURITY

Network ACLs

Security Groups

VIRTUAL PRIVATE NETWORK (VPN)

Customer Gateways

Virtual Private Gateways

Site-to-Site VPN

Create subnet

Actions

Filter by tags and attributes or search by keyword

Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4	IPv6 CIDR	Availability Zone	Availability Zone ID	Route table
<input checked="" type="checkbox"/> demosubnet1	subnet-0d9dad9b30d71a82c	available	vpc-0b301ecc31fbcdbb9	172.19.0.0/24	250	-	us-east-2c	use2-az3	rtb-0fbf1a567d893f13   demor...
<input type="checkbox"/>	subnet-657cb70e	available	vpc-564fec3d	172.31.0.0/20	4091	-	us-east-2a	use2-az1	rtb-301477f5b
<input type="checkbox"/>	subnet-0a77770	available	vpc-564fec3d	172.31.16.0/20	4091	-	us-east-2b	use2-az2	rtb-301477f5b
<input type="checkbox"/>	subnet-0e563e42	available	vpc-564fec3d	172.31.32.0/20	4091	-	us-east-2c	use2-az3	rtb-301477f5b

Subnet: subnet-0d9dad9b30d71a82c

Description

Flow Logs

Route Table

Network ACL

Tags

Sharing

Subnet ID

VPC

Available IPv4 Addresses

Availability Zone

Network ACL

Auto-assign public IPv4 address

Customer-owned IPv4 pool

Outpost ID

Subnet

State

IPv4 CIDR

IPv6 CIDR

Route Table

Default subnet

Auto-assign customer-owned IPv4 address

Auto-assign IPv6 address

Owner

Feedback

English (US)

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18:15

15-10-2020



# Create an EC2 in custom vpc

The screenshot displays the AWS Management Console interface. At the top, the navigation bar shows the user is logged in as 'manoj K' in the 'Ohio' region. The main content area is divided into two panels. The left panel, titled 'Instances (1/1) Info', contains a table with the following data:

Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone	Public IPv4 DNS	Public IPv4 ...	Elastic Ip
vpcdemo	i-04a2d87ba82fcc5d3	Running	t2.micro	2/2 checks ...	No alarms	us-east-2c	-	3.131.133.170	-

The right panel, titled 'Instance: i-04a2d87ba82fcc5d3 (vpcdemo)', provides detailed information about the instance. It includes tabs for 'Details', 'Security', 'Networking', 'Storage', 'Monitoring', and 'Tags'. The 'Details' tab is active, showing the following information:

- Instance ID:** i-04a2d87ba82fcc5d3 (vpcdemo)
- Instance state:** Running
- Instance type:** t2.micro
- IAM Role:** -
- Public IPv4 address:** 3.131.133.170 | open address
- Private IPv4 DNS:** -
- Elastic IP addresses:** -
- Subnet ID:** subnet-0d9dad9b30d71a82c (demosubnet1)
- Private IPv4 addresses:** 172.19.0.134
- Private IPv4 DNS:** ip-172-19-0-134.us-east-2.compute.internal
- VPC ID:** vpc-0b381ecc31fbcdbb9 (demosvpc)
- Monitoring:** Disabled

The bottom of the console shows a sidebar with various AWS services, including EC2 Dashboard, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Network & Security, Security Groups, Elastic IPs, Placement Groups, Key Pairs, and Network Interfaces.

## Task 6: Check ipconfig in VM command prompt.

