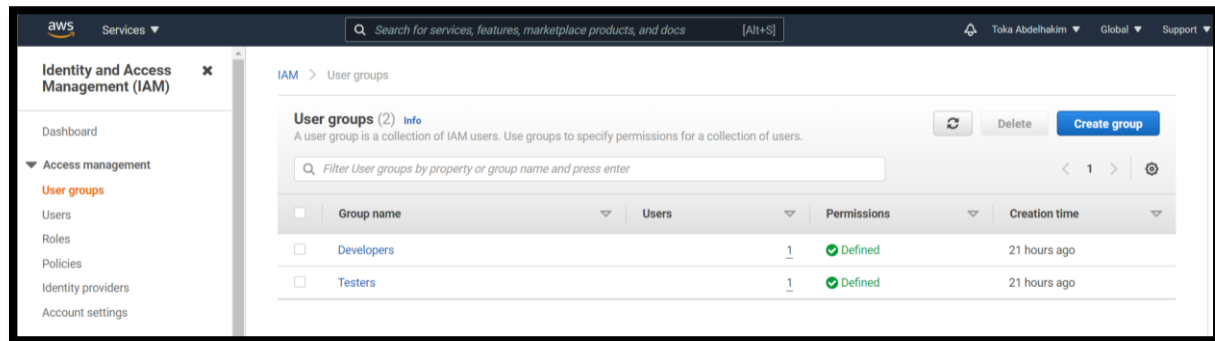
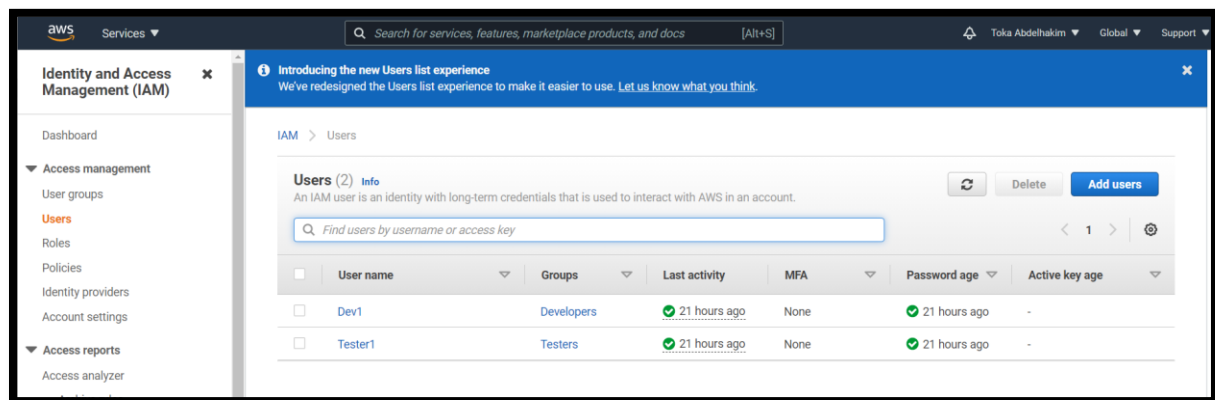


Day 1:

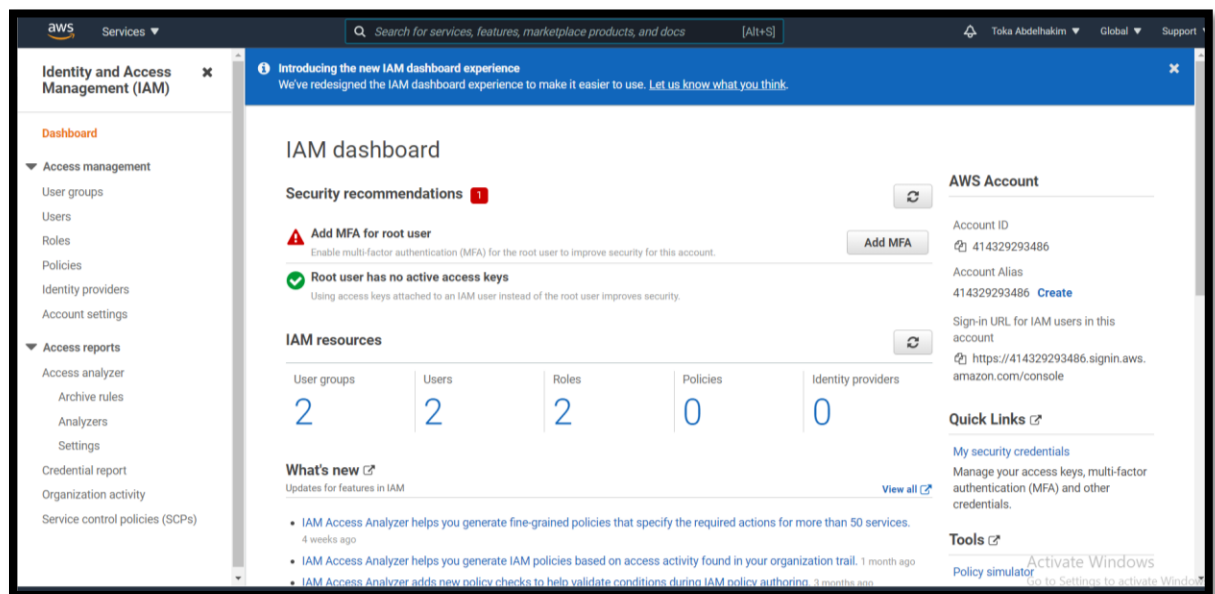
Create 2 IAM groups



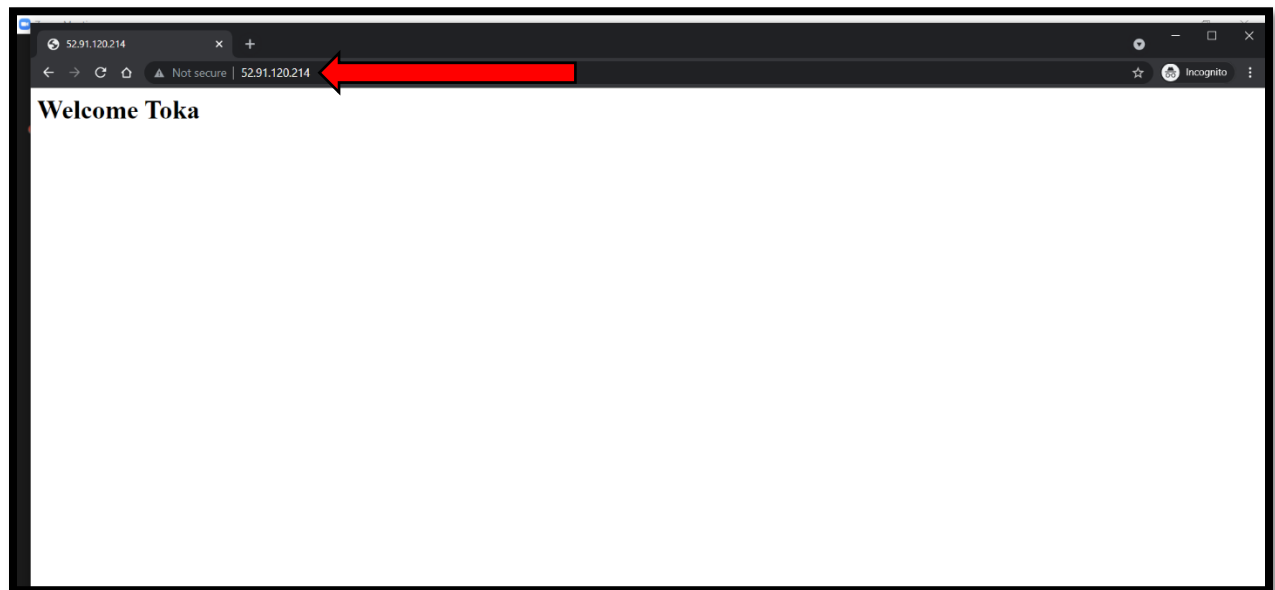
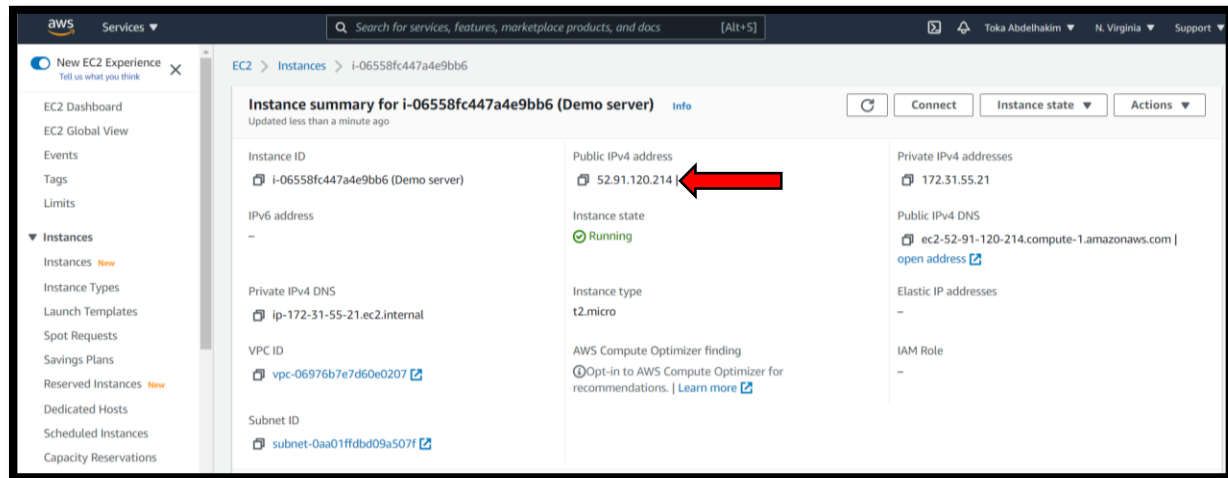
Create 2 users one for each group with different permissions



IAM dashboard




Create Ec2 instance, host html



Hosting Simple html Page:

A new PowerShell stable release is available: v7.1.4
 Upgrade now, or check out the release page at:
<https://aka.ms/PowerShell-ReleaseTag-v7.1.4>

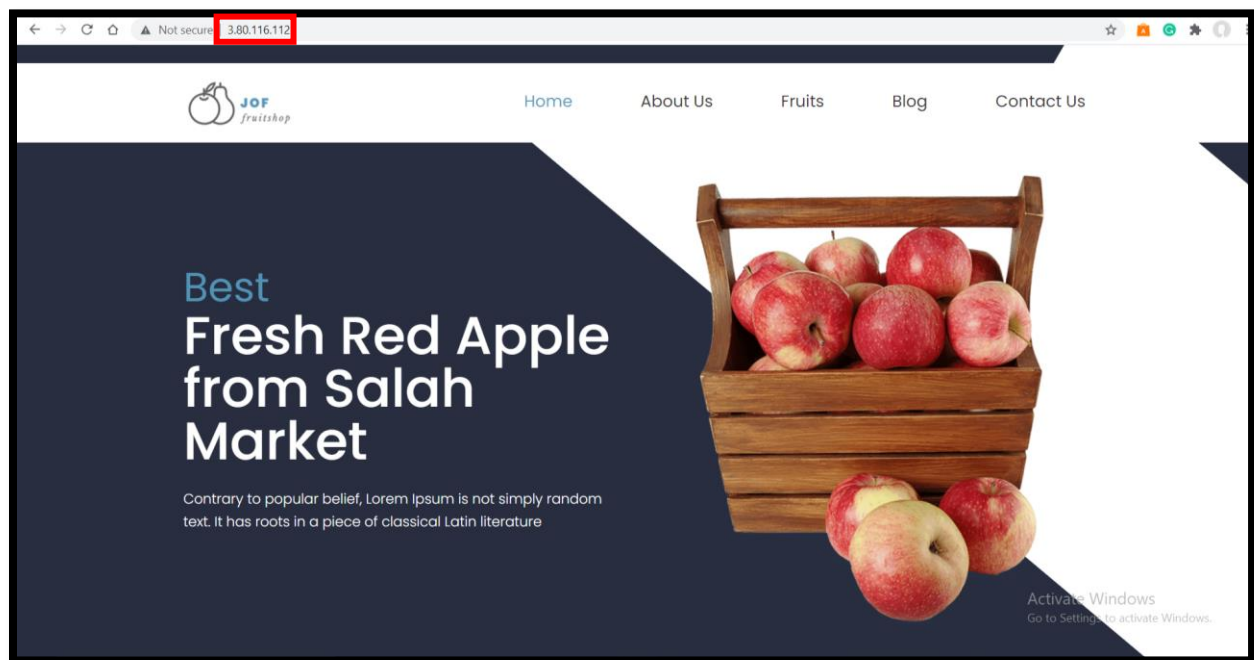
```
PS C:\Users\Kimo Store> ssh -i "Demo_server.pem" ec2-user@ec2-3-80-116-112.compute-1.amazonaws.com
Warning: Identity file Demo_server.pem not accessible: No such file or directory.
The authenticity of host 'ec2-3-80-116-112.compute-1.amazonaws.com (3.80.116.112)' can't be established.
ECDSA key fingerprint is SHA256:n4jnoSnQbFC/wuLipjdhasQd36DhxaEgNtnZ03QVtY.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-3-80-116-112.compute-1.amazonaws.com,3.80.116.112' (ECDSA) to the list of known hosts.
ec2-user@ec2-3-80-116-112.compute-1.amazonaws.com: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
PS C:\Users\Kimo Store> ssh -i "Demo_server.pem" ec2-user@ec2-3-80-116-112.compute-1.amazonaws.com
Warning: Identity file Demo_server.pem not accessible: No such file or directory.
ec2-user@ec2-3-80-116-112.compute-1.amazonaws.com: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
PS C:\Users\Kimo Store> cd Downloads
PS C:\Users\Kimo Store\Downloads> cd Downloads
Set-Location: Cannot find path 'C:\Users\Kimo Store\Downloads\Downloads' because it does not exist.
PS C:\Users\Kimo Store\Downloads> ssh -i "Demo_server.pem" ec2-user@ec2-3-80-116-112.compute-1.amazonaws.com
Last login: Tue Sep 28 17:17:39 2021 from ec2-18-206-107-24.compute-1.amazonaws.com
Last login: Tue Sep 28 17:17:39 2021 from ec2-18-206-107-24.compute-1.amazonaws.com
```

 Amazon Linux 2 AMI

```
https://aws.amazon.com/amazon-linux-2/
11 package(s) needed for security, out of 35 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-23-45 ~]$
```

Activate Windows
 Go to Settings to activate Windows.

Done Accessing, then install all front-end files:



Day 2:

Create VPC

The screenshot shows the AWS Management Console interface for VPCs. The left sidebar contains navigation links for VPC Dashboard, EC2 Global View, and various VPC-related services. The main content area displays a table of VPCs with columns for Name, VPC ID, State, IPv4 CIDR, and IPv6 CIDR. The 'my-demo-vpc' is selected, and its details are shown below the table. The details include VPC ID, State, DNS hostnames, DNS resolution, Tenancy, DHCP options set, Main route table, Main network ACL, Default VPC, IPv4 CIDR, IPv6 pool, IPv6 CIDR (Network border group), Route 53 Resolver DNS Firewall rule groups, and Owner ID.

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR (Network border group)
my-demo-vpc	vpc-049525b7453909524	Available	10.0.0.0/16	-
-	vpc-06976b7e7d60e0207	Available	172.31.0.0/16	-

Details for vpc-049525b7453909524 / my-demo-vpc

Property	Value
VPC ID	vpc-049525b7453909524
State	Available
DNS hostnames	Disabled
DNS resolution	Enabled
Tenancy	Default
DHCP options set	dopt-0265bdfce706df168
Main route table	rtb-0e765f54135426403
Main network ACL	acl-06ecbf11688228e98
Default VPC	No
IPv4 CIDR	10.0.0.0/16
IPv6 pool	-
IPv6 CIDR (Network border group)	-
Route 53 Resolver DNS Firewall rule groups	-
Owner ID	414379293486

Create two subs (public, private)

The screenshot shows the AWS Management Console interface for Subnets. The left sidebar contains navigation links for VPC Dashboard, EC2 Global View, and various VPC-related services. The main content area displays a table of subnets with columns for Name, Subnet ID, State, VPC, IPv4 CIDR, and IPv6 CIDR. Two subnets are listed: 'my-private-subnet' and 'my-public-subnet'. The details for 'my-private-subnet' are shown below the table. The details include Subnet ID, Subnet ARN, State, Availability Zone, IPv4 CIDR, Availability Zone ID, Available IPv4 addresses, Network border group, Route table, Network ACL, and Default subnet.

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
my-private-subnet	subnet-089462bdceef3d7d9	Available	vpc-049525b7453909524 my-demo-vpc	10.0.2.0/24	-
my-public-subnet	subnet-0e8c2837f580d8ab7	Available	vpc-049525b7453909524 my-demo-vpc	10.0.1.0/24	-

Details for subnet-089462bdceef3d7d9 / my-private-subnet

Property	Value
Subnet ID	subnet-089462bdceef3d7d9
Subnet ARN	arn:aws:ec2:us-east-1:414329293486:subnet/subnet-089462bdceef3d7d9
State	Available
Availability Zone	us-east-1b
IPv4 CIDR	10.0.2.0/24
Availability Zone ID	use1-az2
Available IPv4 addresses	251
Network border group	us-east-1
Route table	rtb-0748495b70d16b36a private-router
Network ACL	acl-06ecbf11688228e98
Default subnet	vpc-049525b7453909524 my-demo-

Create two instances

This screenshot shows the AWS Management Console interface for an EC2 instance. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, Images, AMIs, Elastic Block Store, and Volumes. The main content area displays the 'Instance summary for i-01ea6ccda69281d32 (public-appServer)'. The instance is in a 'Running' state. Key details include: Instance ID: i-01ea6ccda69281d32, Public IPv4 address: 52.23.204.219, Private IPv4 DNS: ip-10-0-1-85.ec2.internal, VPC ID: vpc-049525b7453909524, Subnet ID: subnet-0e8c2837f380d8ab7, Platform: Amazon Linux (Inferred), and AMI ID: ami-087c17d1fe0178315. The instance is associated with the 'my-demo-vpc' and 'my-public-subnet'.

Instance summary for i-01ea6ccda69281d32 (public-appServer)

Updated less than a minute ago

Instance ID	Public IPv4 address	Private IPv4 addresses
i-01ea6ccda69281d32 (public-appServer)	52.23.204.219 open address	10.0.1.85

IPv6 address	Instance state	Public IPv4 DNS
-	Running	-

Private IPv4 DNS	Instance type	Elastic IP addresses
ip-10-0-1-85.ec2.internal	t2.micro	-

VPC ID	AWS Compute Optimizer finding	IAM Role
vpc-049525b7453909524 (my-demo-vpc)	Opt-in to AWS Compute Optimizer for recommendations. Learn more	-

Subnet ID
subnet-0e8c2837f380d8ab7 (my-public-subnet)

Instance details

Platform	AMI ID	Monitoring
Amazon Linux (Inferred)	ami-087c17d1fe0178315	disabled

Activate Windows
Go to Settings to activate Windows.

This screenshot shows the AWS Management Console interface for an EC2 instance. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, Images, AMIs, Elastic Block Store, and Volumes. The main content area displays the 'Instance summary for i-0e06cf106686f0dc4 (private-appServer)'. The instance is in a 'Running' state. Key details include: Instance ID: i-0e06cf106686f0dc4, Public IPv4 address: -, Private IPv4 DNS: ip-10-0-2-85.ec2.internal, VPC ID: vpc-049525b7453909524, Subnet ID: subnet-089462bdceef3d7d9, Platform: Amazon Linux (Inferred), and AMI ID: ami-087c17d1fe0178315. The instance is associated with the 'my-demo-vpc' and 'my-private-subnet'.

Instance summary for i-0e06cf106686f0dc4 (private-appServer)

Updated less than a minute ago

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0e06cf106686f0dc4 (private-appServer)	-	10.0.2.85

IPv6 address	Instance state	Public IPv4 DNS
-	Running	-

Private IPv4 DNS	Instance type	Elastic IP addresses
ip-10-0-2-85.ec2.internal	t2.micro	-

VPC ID	AWS Compute Optimizer finding	IAM Role
vpc-049525b7453909524 (my-demo-vpc)	Opt-in to AWS Compute Optimizer for recommendations. Learn more	-

Subnet ID
subnet-089462bdceef3d7d9 (my-private-subnet)

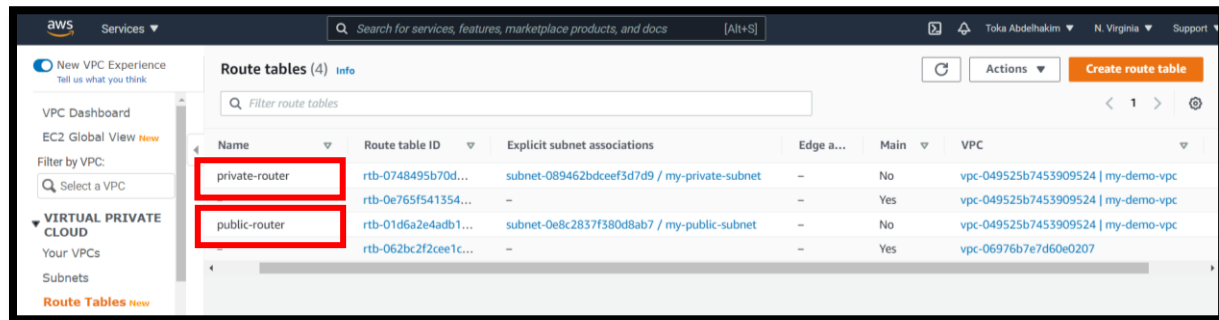
Instance details

Platform	AMI ID	Monitoring
Amazon Linux (Inferred)	ami-087c17d1fe0178315	disabled

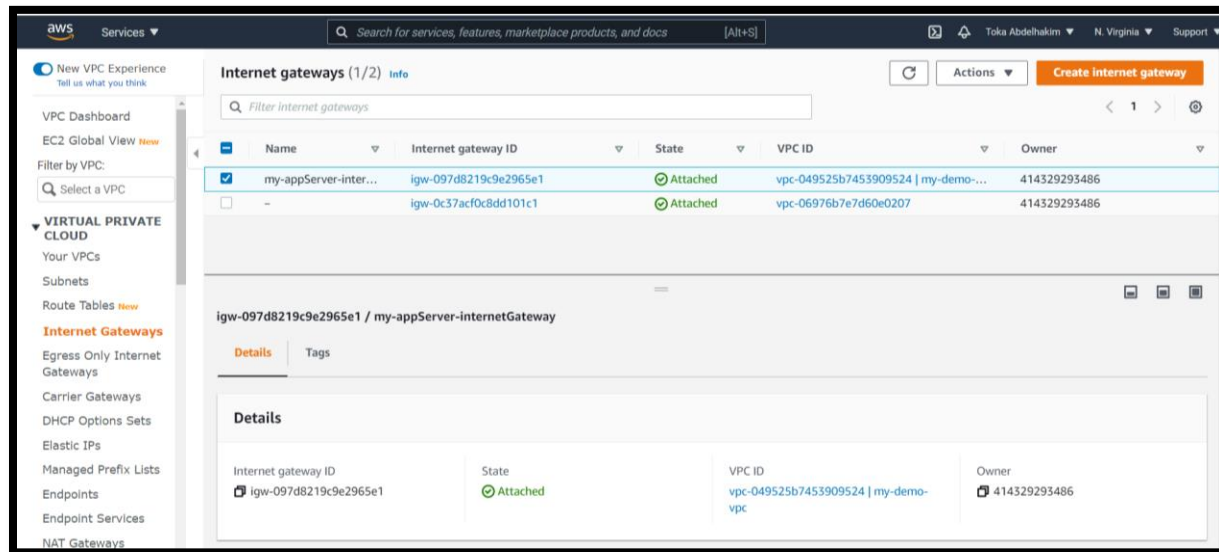
Activate Windows
Go to Settings to activate Windows.

Create IGW, RT, NAT

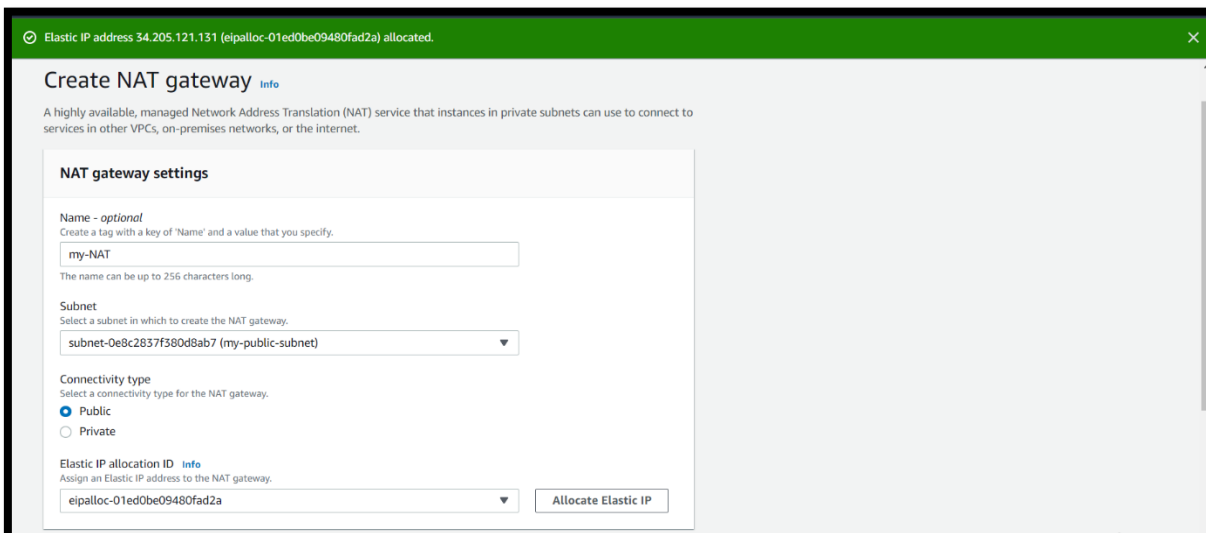
RT:



IGW:



NAT



Day 3:

Create s3 bucket upload files and then expose it publicly

The screenshot shows the Amazon S3 console interface. On the left, the 'Amazon S3' sidebar is visible with options like Buckets, Access Points, and Storage Lens. The main content area displays the 'demo-sprints' bucket. At the top, there's a blue banner with a feedback message. Below it, the 'Account snapshot' section shows storage usage. The 'Buckets (1)' section includes a search bar and a table with one bucket: 'demo-sprints' in the 'US East (Ohio) us-east-2' region, with public access enabled. The table columns are Name, AWS Region, Access, and Creation date.

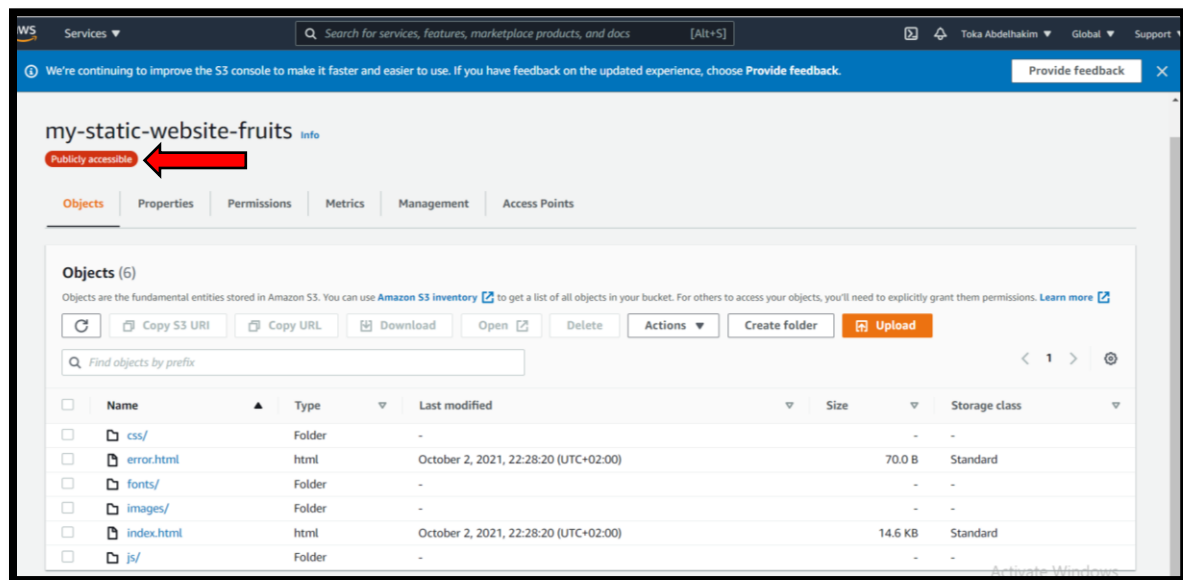
Name	AWS Region	Access	Creation date
demo-sprints	US East (Ohio) us-east-2	Objects can be public	October 2, 2021, 20:31:01 (UTC+02:00)

This screenshot shows the 'demo-sprints' bucket page with the 'Objects' tab selected. It displays a list of two objects: '14.jpg' (7.2 KB) and '33.png' (48.9 KB), both uploaded on October 2, 2021. The interface includes a top navigation bar, a left sidebar, and a main content area with tabs for Objects, Properties, Permissions, Metrics, Management, and Access Points. Action buttons like 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', 'Create folder', and 'Upload' are visible above the object list.

Name	Type	Last modified	Size	Storage class
14.jpg	jpg	October 2, 2021, 20:50:00 (UTC+02:00)	7.2 KB	Standard
33.png	png	October 2, 2021, 20:37:39 (UTC+02:00)	48.9 KB	Standard

The screenshot shows the 'Block public access (bucket settings)' page for the 'demo-sprints' bucket. It explains that public access is blocked by default and provides a list of settings to manage. The 'Block all public access' section shows five settings, all of which are currently 'Off'.

- Block public access to buckets and objects granted through new access control lists (ACLs): Off
- Block public access to buckets and objects granted through any access control lists (ACLs): Off
- Block public access to buckets and objects granted through new public bucket or access point policies: Off
- Block public and cross-account access to buckets and objects through any public bucket or access point policies: Off



```
{
  "Id": "Policy1633207091074",
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "Stmt1633207085818",
      "Action": [
        "s3:GetObject"
      ],
      "Effect": "Allow",
      "Resource": "arn:aws:s3:::my-static-website-fruits/*",
      "Principal": "*"
    }
  ]
}
```


Create image, snapshot for any running Ec2

The screenshot shows the AWS Management Console with the 'EC2 Image Builder' console selected. In the left-hand navigation menu, the 'Images' section is expanded, and a red arrow points to the 'AMIs' link. The main content area displays a table of AMIs owned by the user. Below the table, the details for the AMI 'ami-019c6f7654ef6c48d' are shown.

Name	AMI Name	AMI ID	Source	Owner	Visibility	Status	Creation Date	Platform
backup-demo-server	ami-019c6f7654ef6c48d	414329293486/...	414329293486	Private	available	October 2, 2021 at 11:37:04 ...	Other Linux	

Image: ami-019c6f7654ef6c48d

Details Permissions Tags

Property	Value
AMI ID	ami-019c6f7654ef6c48d
Owner	414329293486
Status	available
Creation date	October 2, 2021 at 11:37:04 PM UTC+2
Architecture	x86_64
Image Type	machine
Description	-
Root Device Type	ebs
Kernel ID	-
Block Devices	/dev/xvda=snap-0a1f935ad3cb6c6358:true:gp2
Deprecation time	-
AMI Name	backup-demo-server
Source	414329293486/backup-demo-server
State Reason	-
Platform details	Linux/UNIX
Usage operation	RunInstances
Virtualization type	hvm
Root Device Name	/dev/xvda
RAM disk ID	-
Product Codes	-
Boot mode	-

Activate Windows
Go to Settings to activate Windows.

The screenshot shows the 'Create Snapshot' success message in the AWS Management Console. The message states 'Create Snapshot Request Succeeded' and provides the snapshot ID 'snap-0c2e362056ad3e1a1'. There are buttons for 'Manage Fast Snapshot Restore' and 'Close'.

Create Snapshot

✓ Create Snapshot Request Succeeded

snap-0c2e362056ad3e1a1

Manage Fast Snapshot Restore Close

The screenshot shows the 'Create Snapshot' details in the AWS Management Console. The console displays a table of snapshots owned by the user. Below the table, the details for the snapshot 'snap-0c2e362056ad3e1a1' are shown.

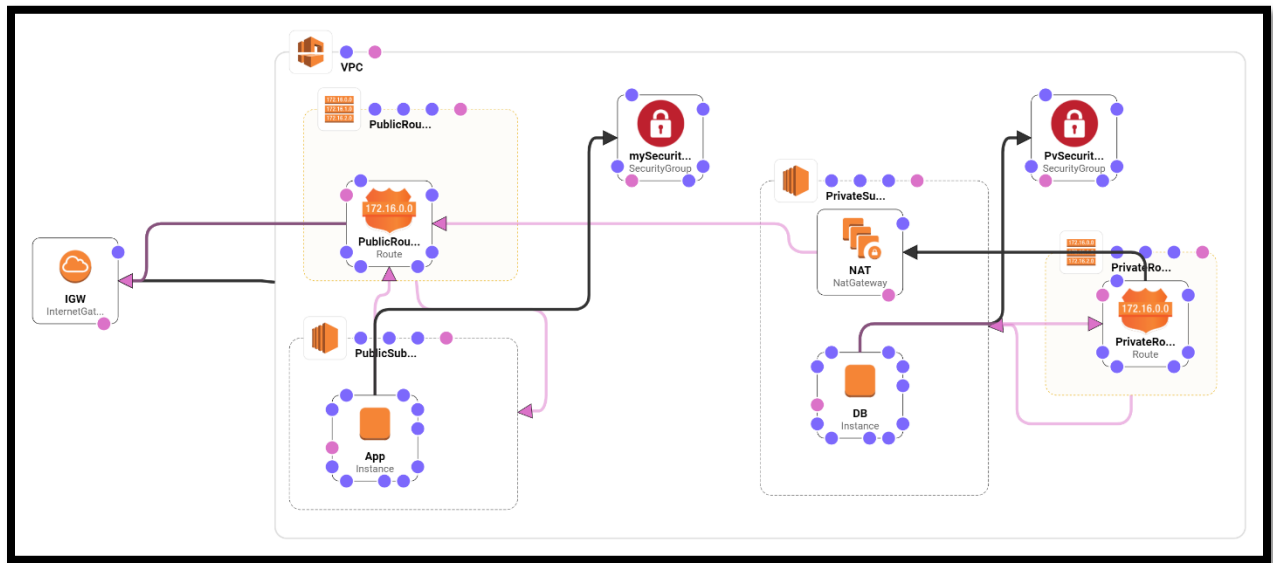
Name	Snapshot ID	Size	Description	Status	Started	Progress
snap-0a1f935ad3cb...	snap-0a1f935ad3cb...	8 GiB	Created by CreateImage(j-06558tc447a4e9bb6) for ami-019c6f...	completed	October 2, 2021 at 11:38:34 ...	available (100%)
snap-0c2e362056a...	snap-0c2e362056a...	8 GiB	backup-demo-volume	completed	October 2, 2021 at 11:38:59 ...	available (100%)

Snapshot: snap-0c2e362056ad3e1a1

Description Permissions Tags

Property	Value
Snapshot ID	snap-0c2e362056ad3e1a1
Status	completed
Volume	vol-0222251a496d9283e
Started	October 2, 2021 at 11:38:59 PM UTC+2
Owner	414329293486
Product codes	-
Description	backup-demo-volume
Outpost ARN	-
Progress	100%
Capacity	8 GiB
Encryption	Not Encrypted
KMS Key ID	-
KMS Key Aliases	-
KMS Key ARN	-
Fast Snapshot Restore	-

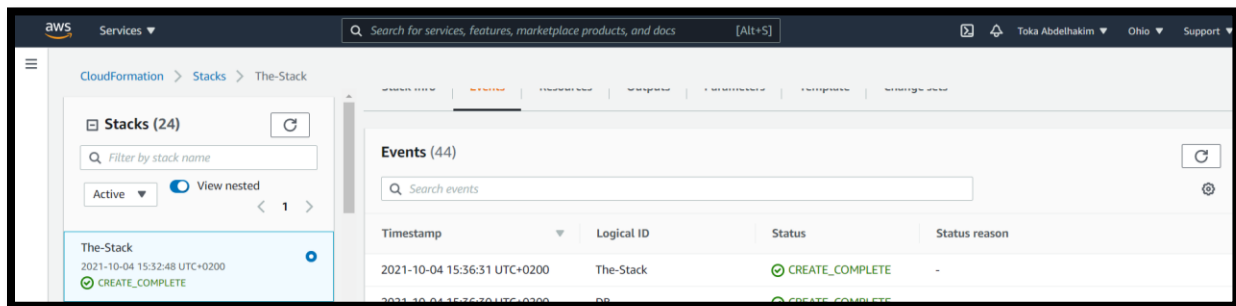
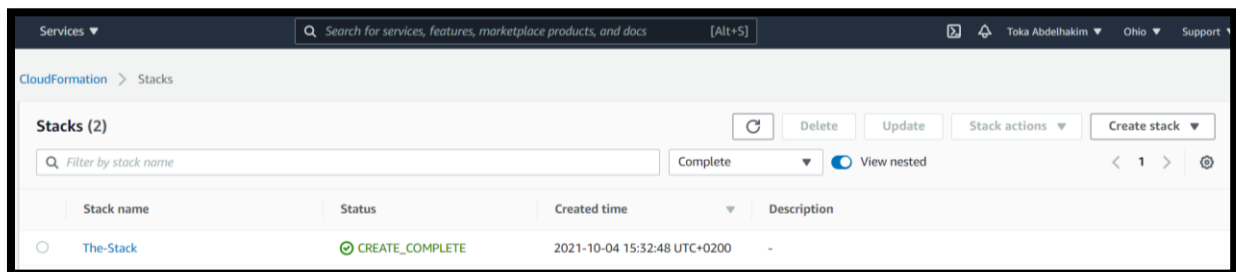
Create CloudFormation template for



Code:

Uploaded in the same branch -Documentaion- with name Cloudeformation_CODE

Proof of work:



The created instances:

Events									
Tags									
Limits									
	<input type="checkbox"/>	DB	i-08f1e237429909c56	Running	2/2 checks passed	No alarms	+	us-east-2c	-
	<input type="checkbox"/>	APP	i-03f69101efc1539bf	Running	2/2 checks passed	No alarms	+	us-east-2c	-