

AWS Cloud Computing Assignment Document

Document No: AWS-CC-ASGMT

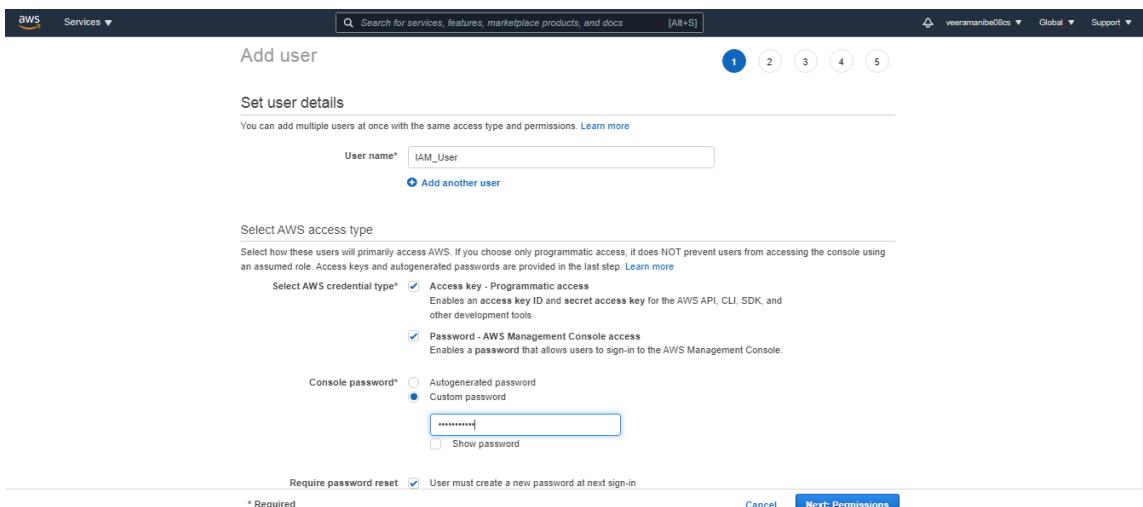
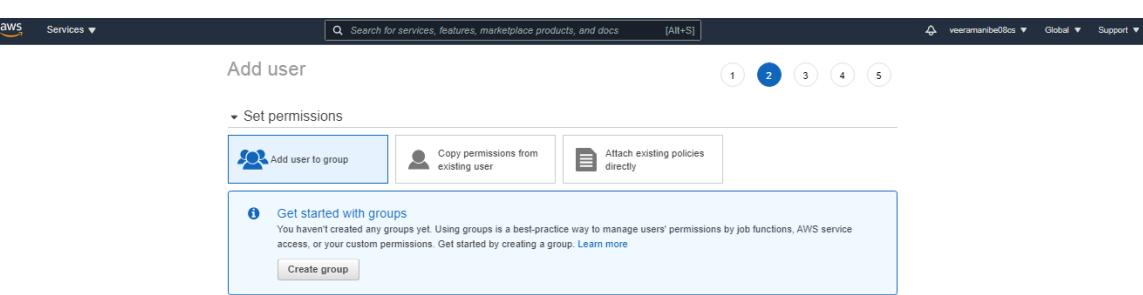
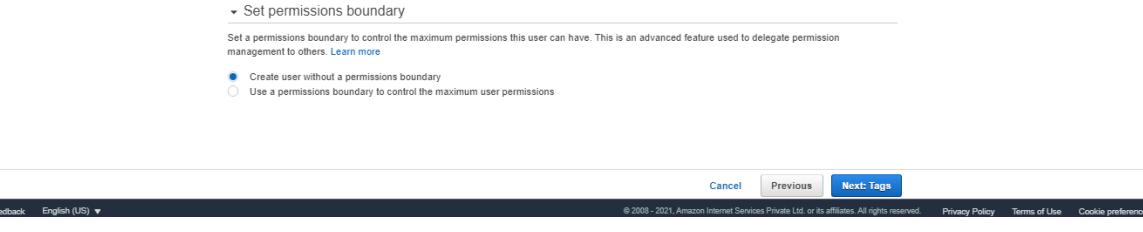
Version: 1.0 as on 27Sep21

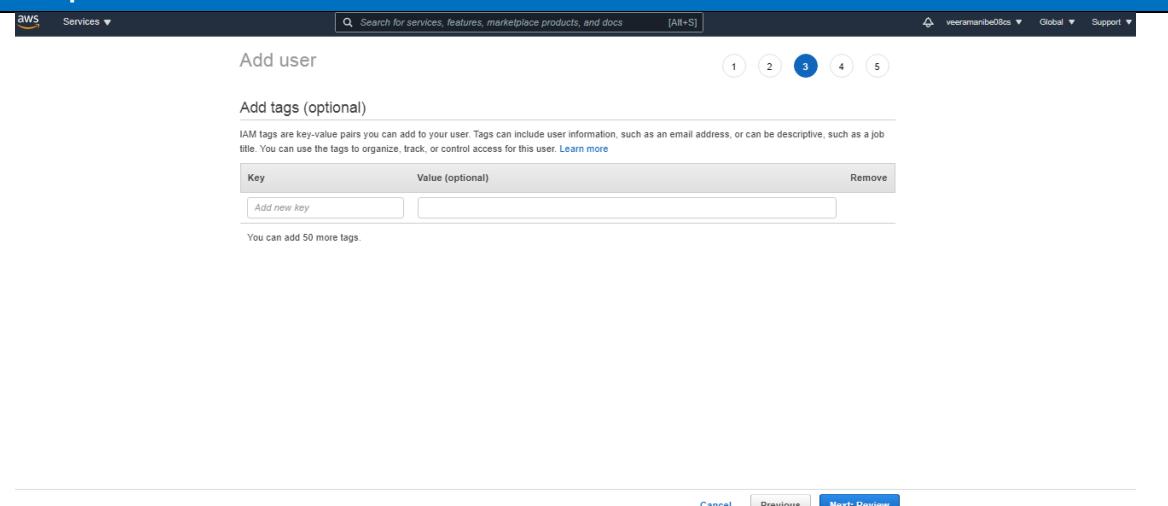
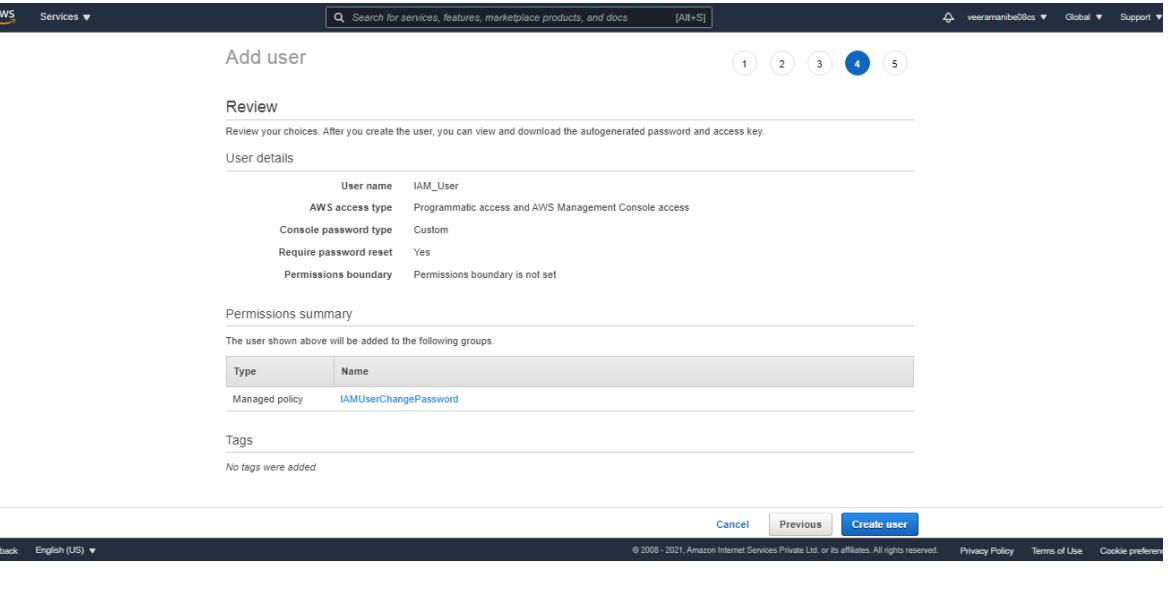
Veeramani Natarajan
No. 638, 8th Main, 5th Cross,
RPC Layout, Hampinagar,
Vijayanagar, Bangalore – 560104.

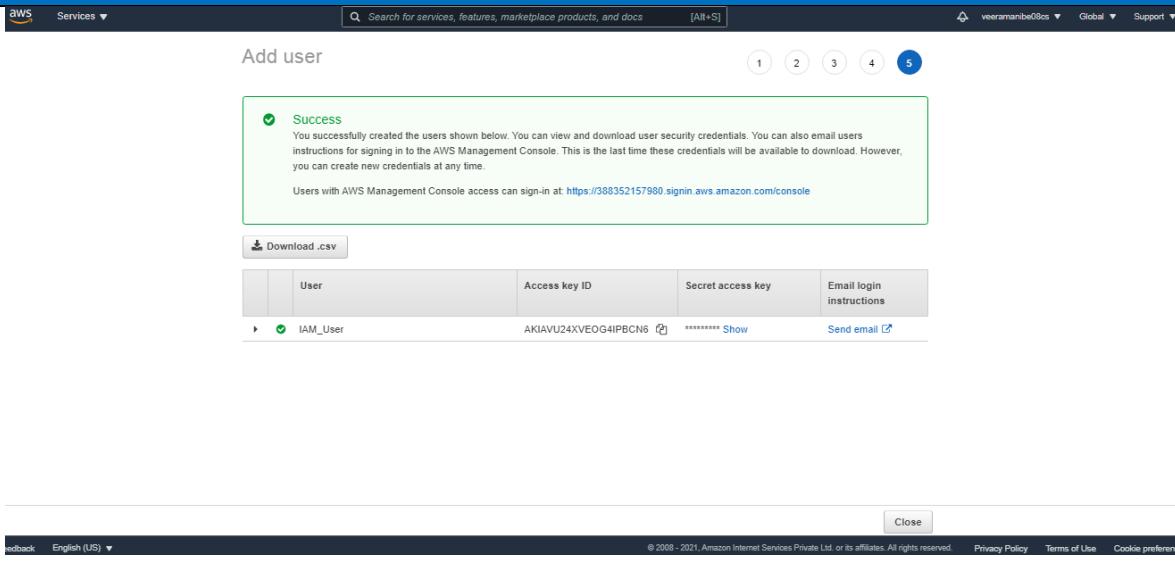
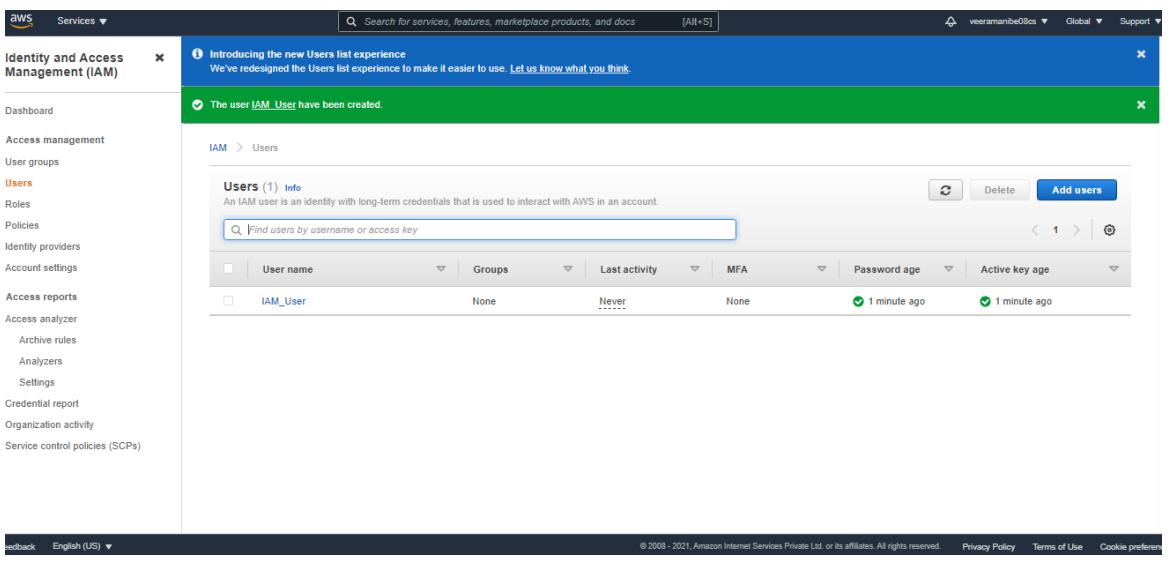
Table of Contents

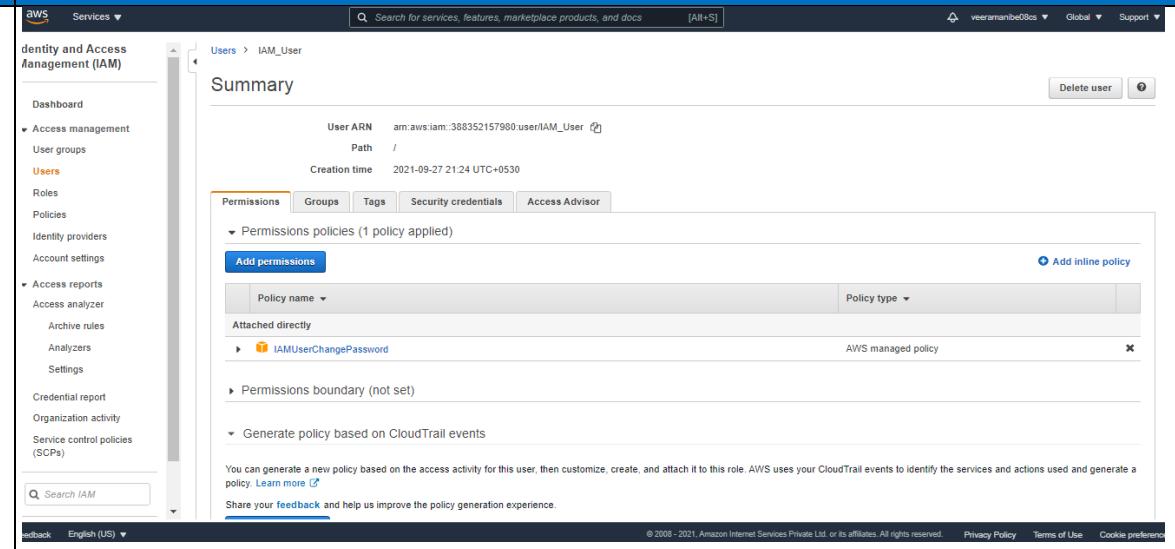
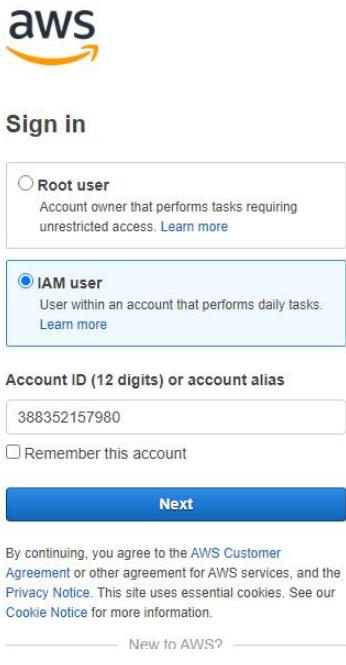
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1 Assignment - 1

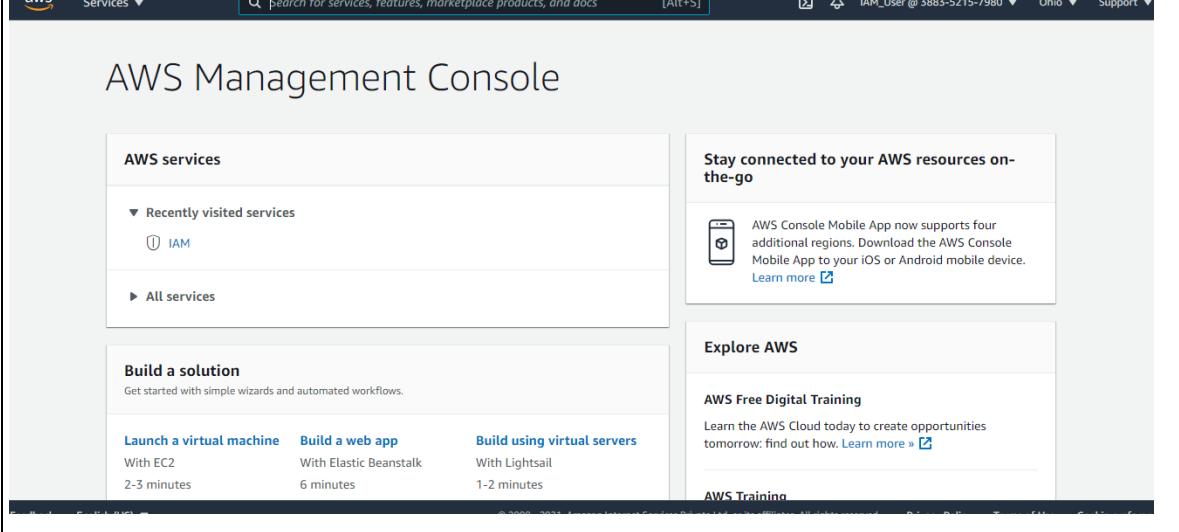
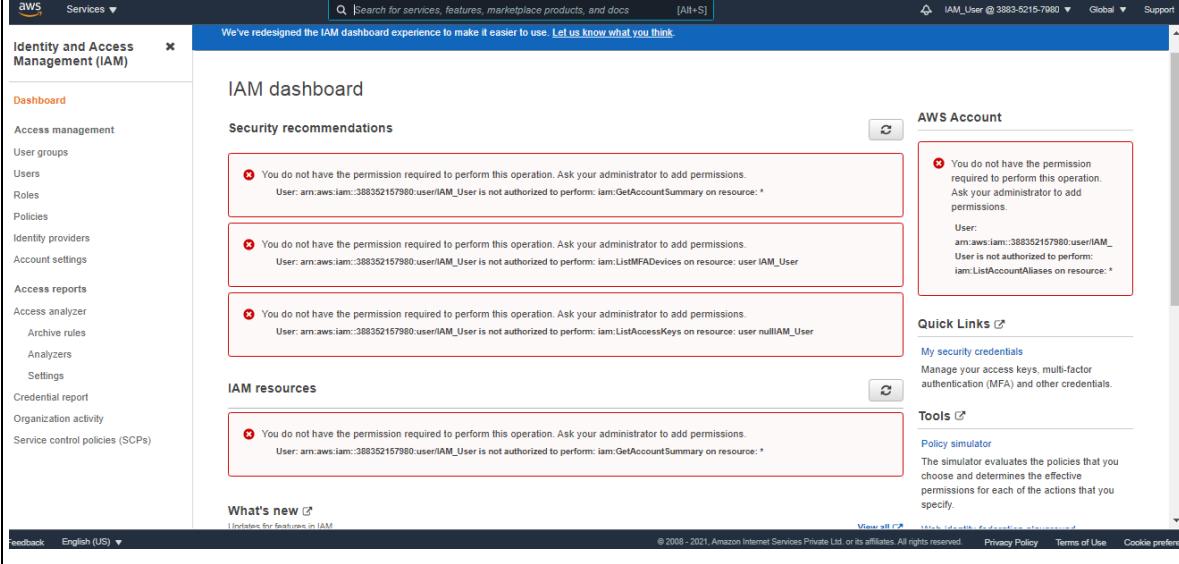
SI No	Description
1.	<p>Working with IAM</p> <p>Create a user</p>  <p>The screenshot shows the 'Set user details' step of the 'Add user' wizard. The 'User name*' field contains 'IAM_User'. The 'Select AWS credential type*' section has two checked options: 'Access key - Programmatically' (which enables programmatic access via access key ID and secret access key) and 'Password - AWS Management Console access' (which enables users to sign-in to the AWS Management Console). A 'Console password*' field is filled with a custom password, and the 'Custom password' radio button is selected. Below the password field is a 'Show password' checkbox. At the bottom of the step, there are 'Required' and 'Next: Permissions' buttons.</p>  <p>The screenshot shows the 'Set permissions' step of the 'Add user' wizard. It features three buttons: 'Add user to group' (highlighted in blue), 'Copy permissions from existing user', and 'Attach existing policies directly'. A 'Get started with groups' callout box provides instructions on creating a group for the user. At the bottom of the step, there is a 'Create group' button.</p>  <p>The screenshot shows the 'Set permissions boundary' step of the 'Add user' wizard. It displays two radio button options: 'Create user without a permissions boundary' (selected) and 'Use a permissions boundary to control the maximum user permissions'. At the bottom of the step, there are 'Cancel', 'Previous', and 'Next: Tags' buttons.</p>

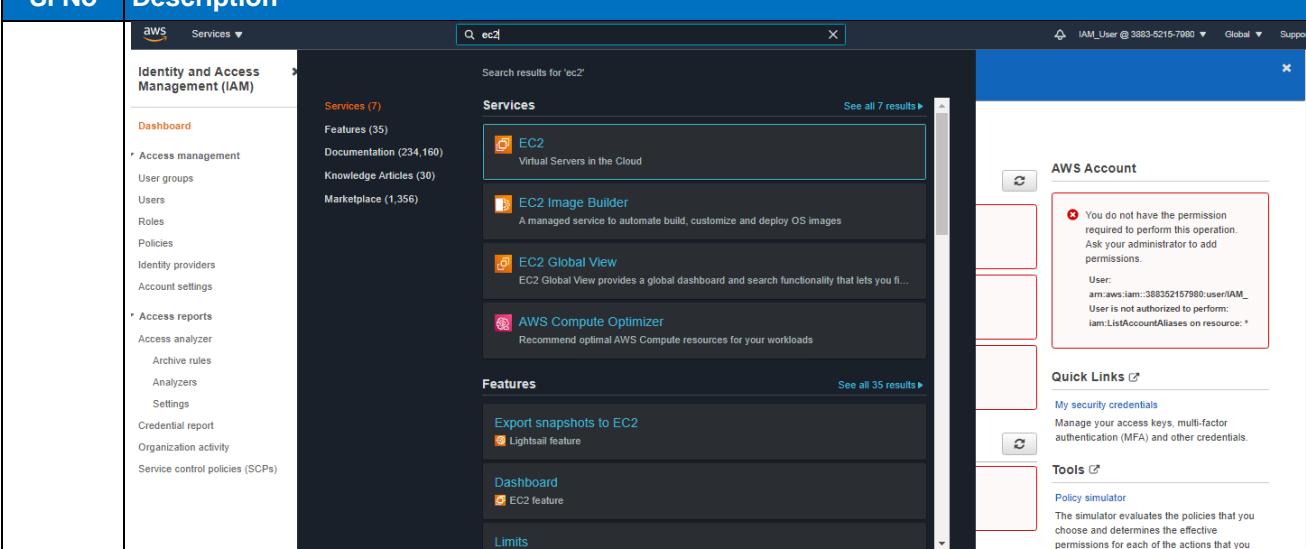
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SI No	Description
	 <p>The screenshot shows the 'Add user' success page in the AWS IAM console. A success message states: 'You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.' Below the message, it says 'Users with AWS Management Console access can sign-in at: https://388352157980.signin.aws.amazon.com/console'. There is a 'Download.csv' button and a table showing the newly created user 'IAM_User' with their access key ID (AKIAVU24XVEOG4IPBCN6) and secret access key (*****). A 'Send email' link is also present.</p>
2.	List of user  <p>The screenshot shows the 'Users' list page in the AWS IAM console. It displays a single user named 'IAM_User' with the following details: User name (IAM_User), Groups (None), Last activity (Never), MFA (None), Password age (1 minute ago), and Active key age (1 minute ago). The page includes a search bar, a toolbar with 'Add users' and 'Delete' buttons, and a navigation menu on the left.</p>
3.	User Details

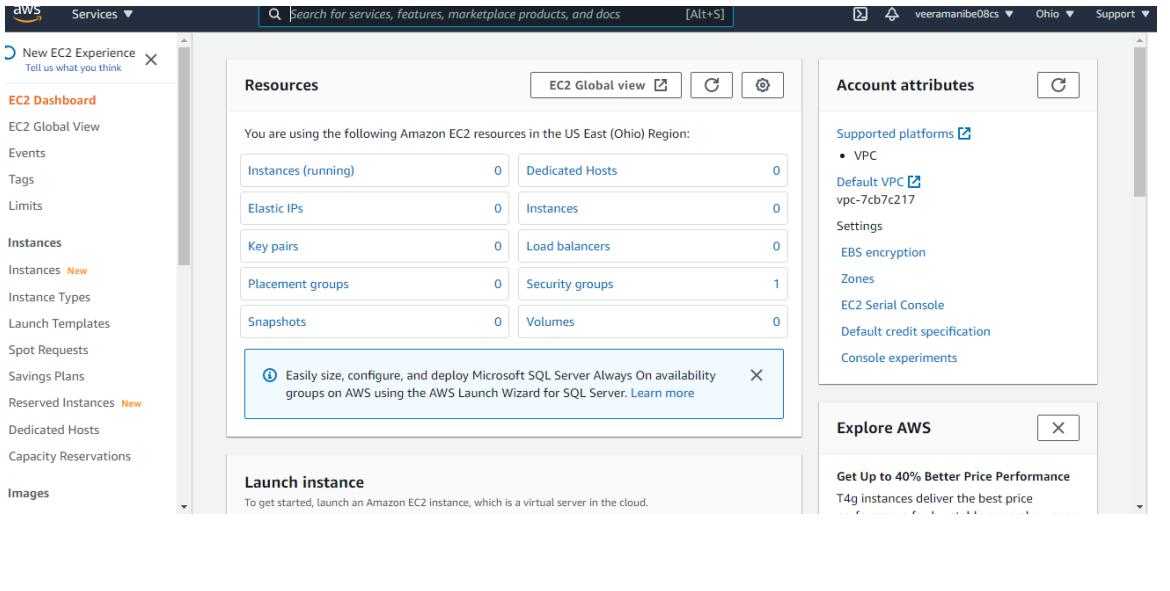
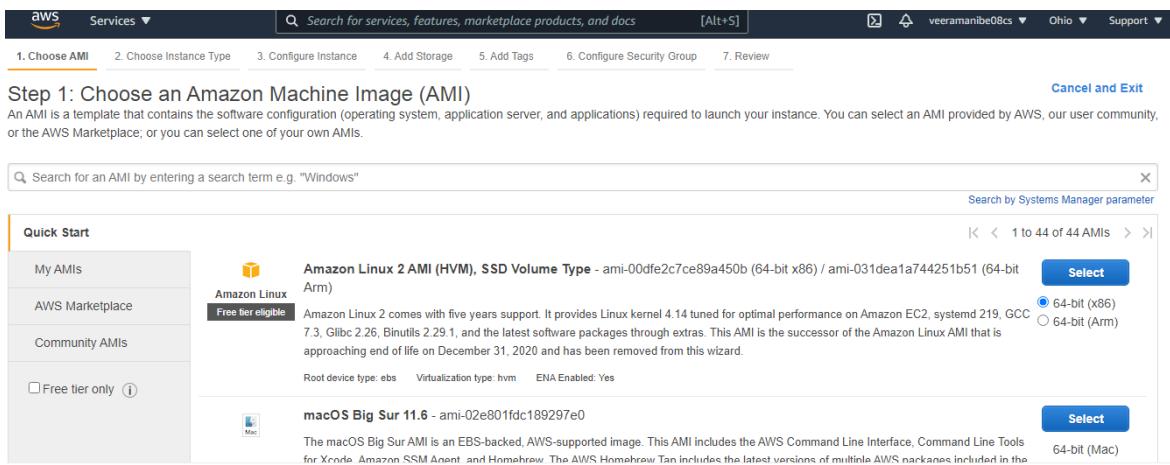
SI No	Description
	 <p>The screenshot shows the AWS IAM User Summary page for a user named 'IAM_User'. The user ARN is arn:aws:iam:388352157980:user/IAM_User. The path is /. Creation time is 2021-09-27 21:24 UTC+0530. There is one policy applied: 'IAMUserChangePassword' (AWS managed policy). Other tabs include Permissions, Groups, Tags, Security credentials, and Access Advisor.</p>
4.	<p>Login as IAM user</p>  <p>The screenshot shows the AWS Sign In page. The user has selected 'IAM user' (radio button) and entered the account ID '388352157980'. There is a 'Remember this account' checkbox and a 'Next' button. A note at the bottom states: 'By continuing, you agree to the AWS Customer Agreement or other agreement for AWS services, and the Privacy Notice. This site uses essential cookies. See our Cookie Notice for more information.'</p>  <p>The screenshot shows the Amazon Lightsail landing page. It features a large orange and yellow swoosh graphic. The heading is 'Amazon Lightsail' with the subtext 'Lightsail is the easiest way to get started on AWS'. There is a 'Learn more »' button and a cartoon character icon.</p>

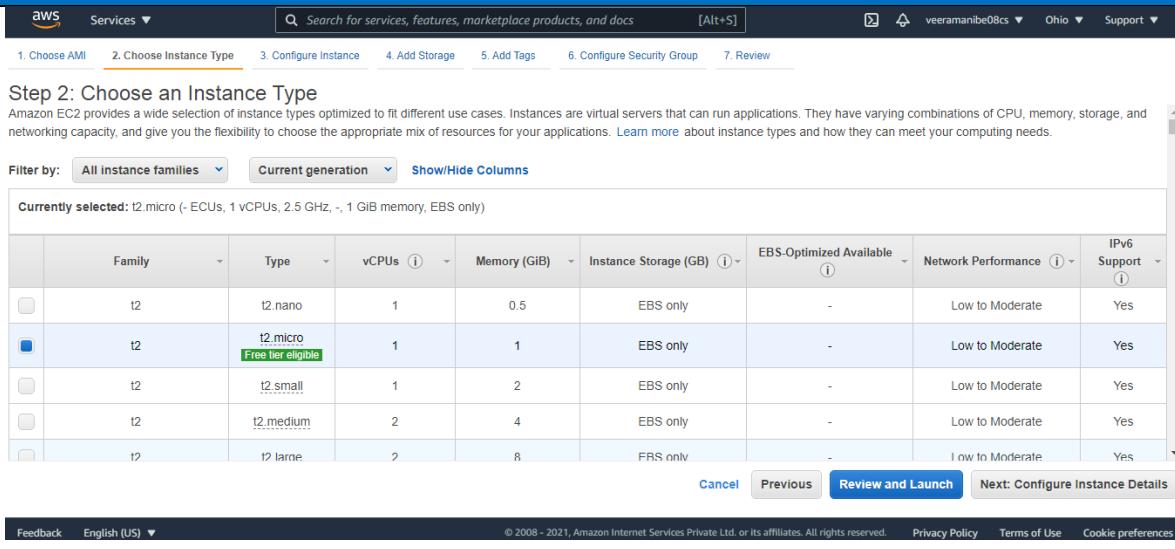
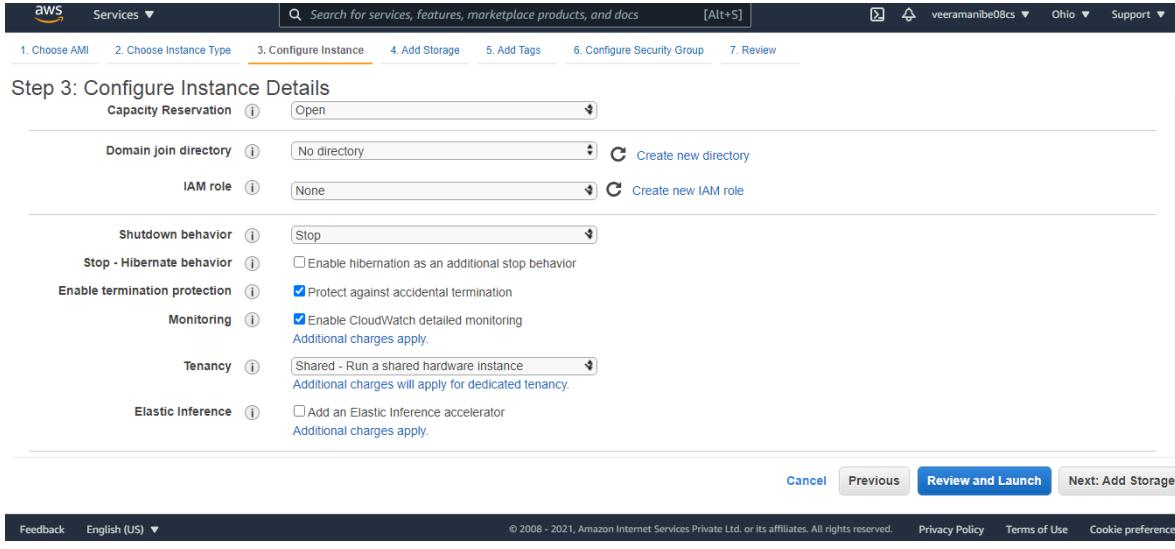
SI No	Description
	 <p>Sign in as IAM user</p> <p>Account ID (12 digits) or account alias <input type="text" value="388352157980"/></p> <p>IAM user name <input type="text" value="IAM_User"/></p> <p>Password <input type="password" value="....."/></p> <p>Sign in</p> <p>Sign in using root user email Forgot password?</p>
	 <p>Amazon Aurora</p> <p>Achieve up to 35% better price and performance using new Graviton2 instances</p> 

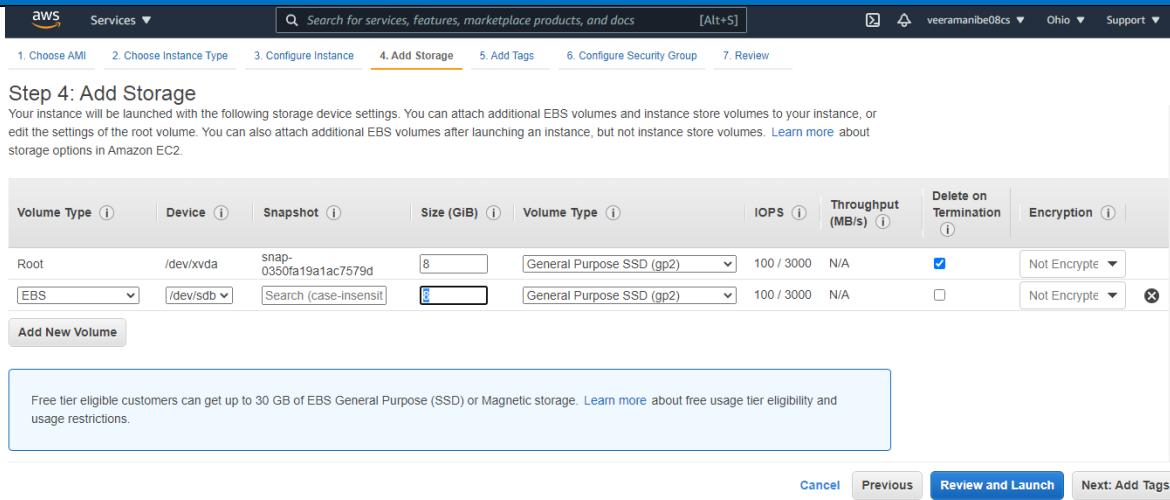
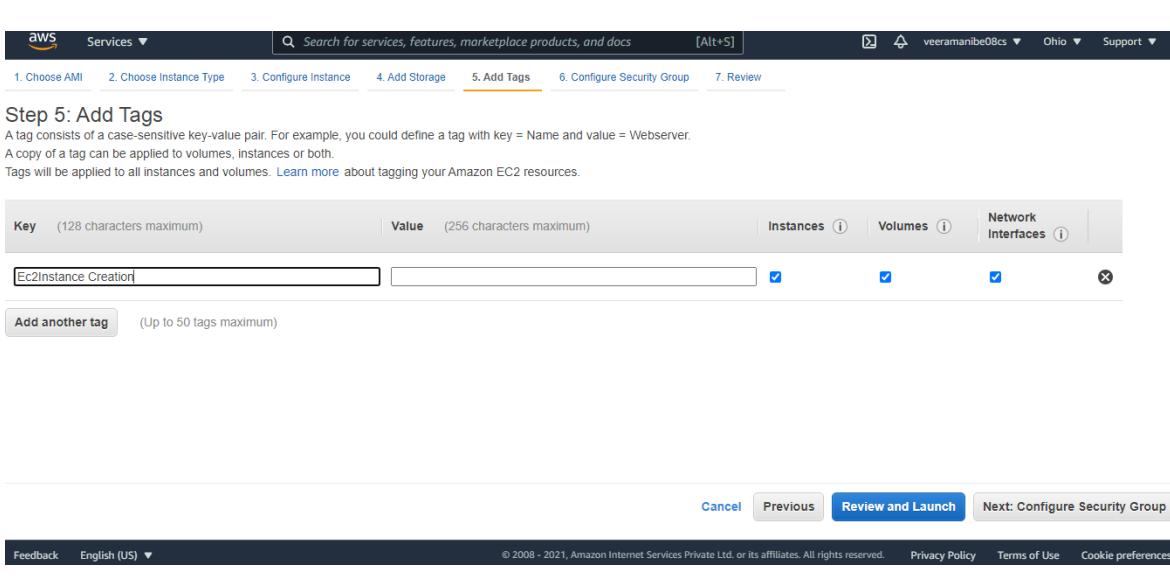
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5.	<h2>IAM Permissions in action</h2> 
6.	<h2>Navigate different services</h2>

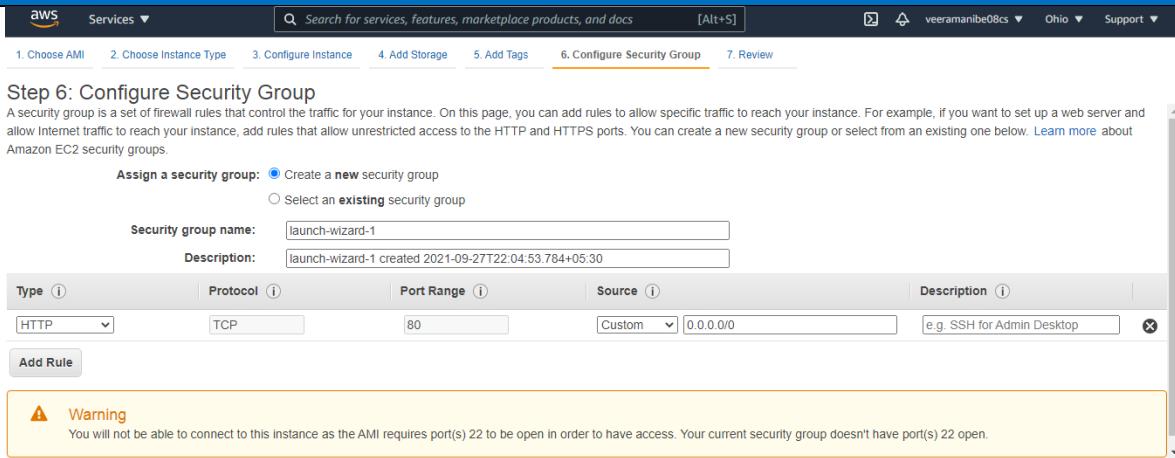
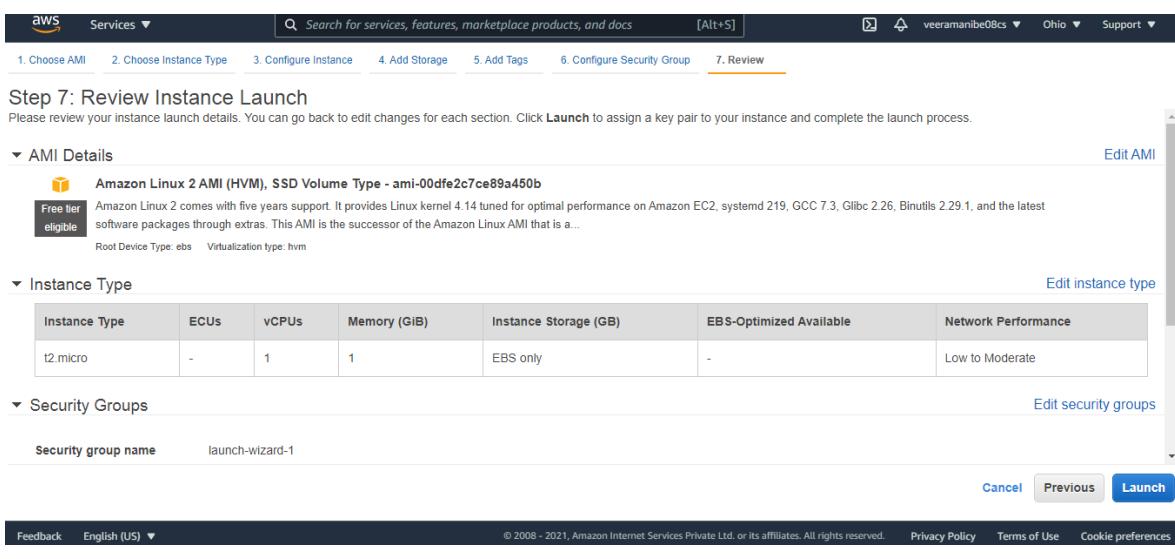
SI No	Description
	 <p>The screenshot shows the AWS Identity and Access Management (IAM) service search results for the term 'ec2'. The search bar at the top contains 'ec2'. Below it, there are two main sections: 'Services' and 'Features'.</p> <ul style="list-style-type: none"> Services: <ul style="list-style-type: none"> EC2: Virtual Servers in the Cloud EC2 Image Builder: A managed service to automate build, customize and deploy OS images EC2 Global View: EC2 Global View provides a global dashboard and search functionality that lets you fi... AWS Compute Optimizer: Recommend optimal AWS Compute resources for your workloads Features: <ul style="list-style-type: none"> Export snapshots to EC2: Lightsail feature Dashboard: EC2 feature Limits <p>On the right side of the search results, there is a sidebar titled 'AWS Account' which displays a red error message about permission issues for the user 'iam_user'. It also includes 'Quick Links' and 'Tools' sections.</p>

2 Assignment - 2

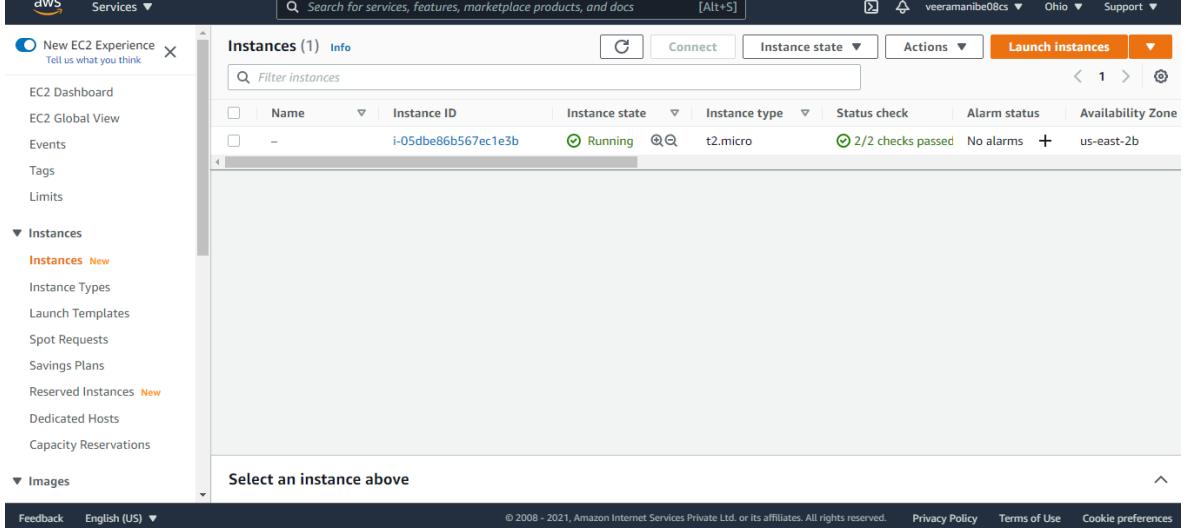
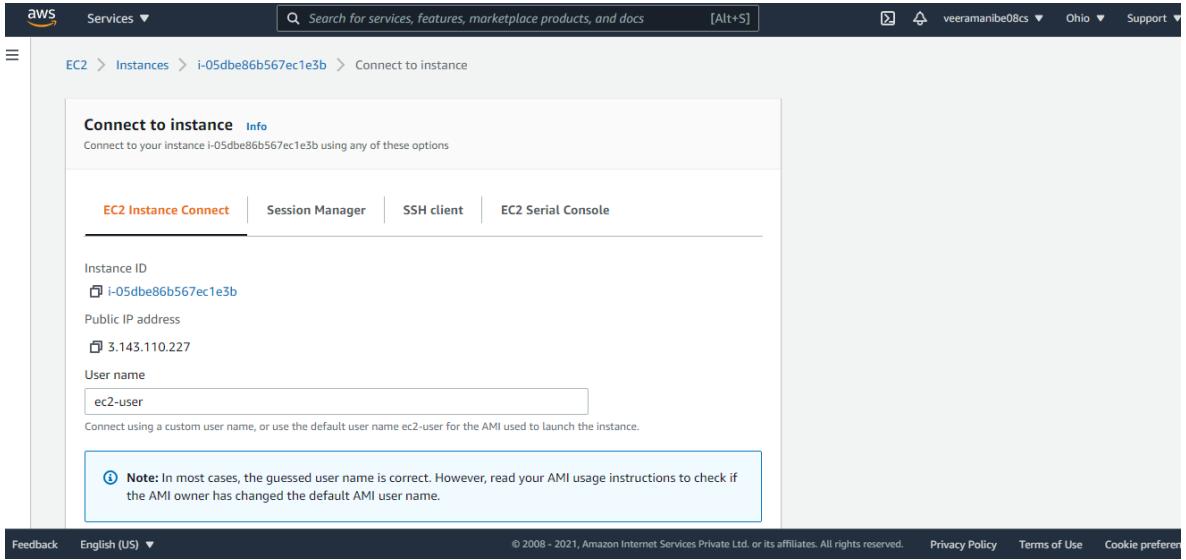
SI No	Description
1.	<p>Create an ec2 instance with terminate protection</p> <p>Create a ec2 instance</p>  <p>The screenshot shows the AWS EC2 Dashboard. On the left, there's a sidebar with links like New EC2 Experience, EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and Images. The main area has a 'Resources' section with counts for Instances (running), Dedicated Hosts, Elastic IPs, Instances, Key pairs, Load balancers, Placement groups, Security groups, Snapshots, and Volumes. Below it is a callout box about Microsoft SQL Server Always On availability groups. At the bottom, there's a 'Launch instance' button with the text: 'To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.'</p>  <p>The screenshot shows the 'Choose AMI' step of the AWS Launch Wizard. It has a search bar at the top. On the left, a 'Quick Start' sidebar lists 'My AMIs', 'AWS Marketplace', 'Community AMIs', and a 'Free tier only' checkbox. The main area shows two AMI options: 'Amazon Linux 2 AMI (HVM), SSD Volume Type' (selected) and 'macOS Big Sur 11.6'. Each option includes a description, root device type, virtualization type, ENA status, and a 'Select' button. There are navigation arrows at the bottom right.</p>

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	 <p>Step 2: Choose an Instance Type</p> <p>Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. Learn more about instance types and how they can meet your computing needs.</p> <p>Filter by: All instance families ▾ Current generation ▾ Show/Hide Columns</p> <p>Currently selected: t2.micro (~ ECUs, 1 vCPUs, 2.5 GHz, ~ 1 GiB memory, EBS only)</p> <table border="1"> <thead> <tr> <th></th> <th>Family</th> <th>Type</th> <th>vCPUs</th> <th>Memory (GiB)</th> <th>Instance Storage (GB)</th> <th>EBS-Optimized Available</th> <th>Network Performance</th> <th>IPv6 Support</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>t2</td> <td>t2.nano</td> <td>1</td> <td>0.5</td> <td>EBS only</td> <td>-</td> <td>Low to Moderate</td> <td>Yes</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>t2</td> <td>t2.micro <small>Free tier eligible</small></td> <td>1</td> <td>1</td> <td>EBS only</td> <td>-</td> <td>Low to Moderate</td> <td>Yes</td> </tr> <tr> <td><input type="checkbox"/></td> <td>t2</td> <td>t2.small</td> <td>1</td> <td>2</td> <td>EBS only</td> <td>-</td> <td>Low to Moderate</td> <td>Yes</td> </tr> <tr> <td><input type="checkbox"/></td> <td>t2</td> <td>t2.medium</td> <td>2</td> <td>4</td> <td>EBS only</td> <td>-</td> <td>Low to Moderate</td> <td>Yes</td> </tr> <tr> <td><input type="checkbox"/></td> <td>t2</td> <td>t2.large</td> <td>2</td> <td>8</td> <td>EBS only</td> <td>-</td> <td>Low to Moderate</td> <td>Yes</td> </tr> </tbody> </table> <p>Cancel Previous Review and Launch Next: Configure Instance Details</p> <p>Feedback English (US) ▾ © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences</p>		Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support	<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes	<input checked="" type="checkbox"/>	t2	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate	Yes	<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes	<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes	<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
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<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes																																															
	 <p>Step 3: Configure Instance Details</p> <p>Capacity Reservation ▾ Open</p> <p>Domain join directory ▾ No directory ▾ Create new directory</p> <p>IAM role ▾ None ▾ Create new IAM role</p> <p>Shutdown behavior ▾ Stop</p> <p>Stop - Hibernate behavior ▾ <input type="checkbox"/> Enable hibernation as an additional stop behavior</p> <p>Enable termination protection ▾ <input checked="" type="checkbox"/> Protect against accidental termination</p> <p>Monitoring ▾ <input checked="" type="checkbox"/> Enable CloudWatch detailed monitoring Additional charges apply.</p> <p>Tenancy ▾ Shared - Run a shared hardware instance Additional charges will apply for dedicated tenancy.</p> <p>Elastic Inference ▾ <input type="checkbox"/> Add an Elastic Inference accelerator Additional charges apply.</p> <p>Cancel Previous Review and Launch Next: Add Storage</p> <p>Feedback English (US) ▾ © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences</p>																																																						

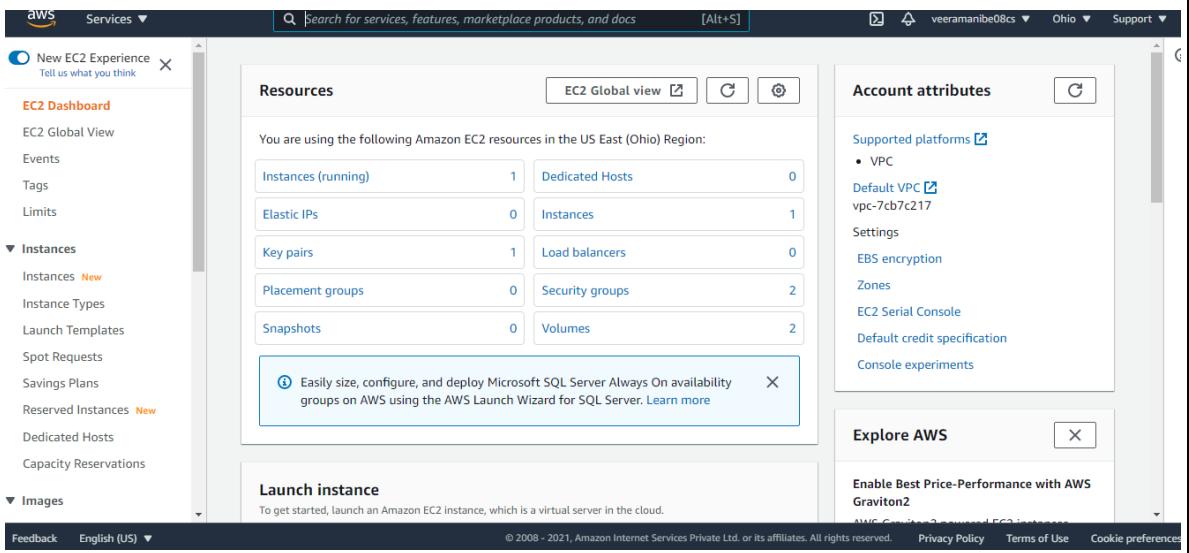
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	 <p>Step 4: Add Storage</p> <p>Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. Learn more about storage options in Amazon EC2.</p> <table border="1"> <thead> <tr> <th>Volume Type</th> <th>Device</th> <th>Snapshot</th> <th>Size (GiB)</th> <th>Volume Type</th> <th>IOPS</th> <th>Throughput (MB/s)</th> <th>Delete on Termination</th> <th>Encryption</th> </tr> </thead> <tbody> <tr> <td>Root</td> <td>/dev/xvda</td> <td>snap-0350fa19a1ac7579d</td> <td>8</td> <td>General Purpose SSD (gp2)</td> <td>100 / 3000</td> <td>N/A</td> <td><input checked="" type="checkbox"/></td> <td>Not Encrypte</td> </tr> <tr> <td>EBS</td> <td>/dev/sdb</td> <td>Search (case-insensit)</td> <td>8</td> <td>General Purpose SSD (gp2)</td> <td>100 / 3000</td> <td>N/A</td> <td><input type="checkbox"/></td> <td>Not Encrypte</td> </tr> </tbody> </table> <p>Add New Volume</p> <p>Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. Learn more about free usage tier eligibility and usage restrictions.</p> <p>Review and Launch</p>	Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption	Root	/dev/xvda	snap-0350fa19a1ac7579d	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypte	EBS	/dev/sdb	Search (case-insensit)	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input type="checkbox"/>	Not Encrypte
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EBS	/dev/sdb	Search (case-insensit)	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input type="checkbox"/>	Not Encrypte																				
	 <p>Step 5: Add Tags</p> <p>A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. Learn more about tagging your Amazon EC2 resources.</p> <table border="1"> <thead> <tr> <th>Key</th> <th>(128 characters maximum)</th> <th>Value</th> <th>(256 characters maximum)</th> <th>Instances</th> <th>Volumes</th> <th>Network Interfaces</th> </tr> </thead> <tbody> <tr> <td>Ec2Instance Creator</td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table> <p>Add another tag (Up to 50 tags maximum)</p> <p>Review and Launch</p>	Key	(128 characters maximum)	Value	(256 characters maximum)	Instances	Volumes	Network Interfaces	Ec2Instance Creator				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
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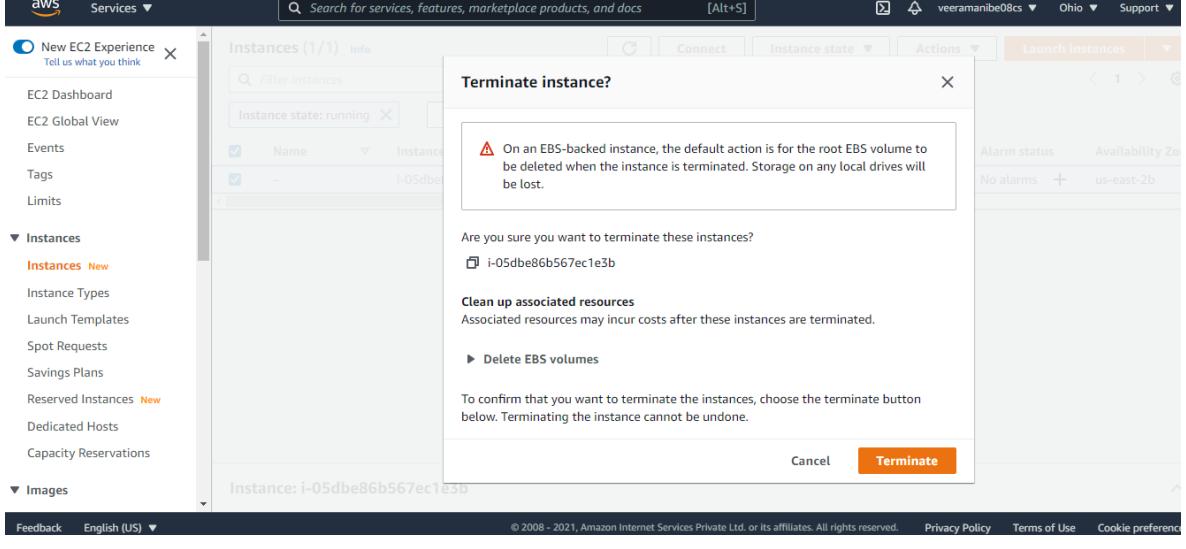
SI No	Description																								
	 <p>Step 6: Configure Security Group</p> <p>A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. Learn more about Amazon EC2 security groups.</p> <p>Assign a security group: <input checked="" type="radio"/> Create a new security group <input type="radio"/> Select an existing security group</p> <p>Security group name: <input type="text" value="launch-wizard-1"/> Description: <input type="text" value="launch-wizard-1 created 2021-09-27T22:04:53.784+05:30"/></p> <table border="1"> <thead> <tr> <th>Type</th> <th>Protocol</th> <th>Port Range</th> <th>Source</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>HTTP</td> <td>TCP</td> <td>80</td> <td>Custom</td> <td>0.0.0.0/0</td> </tr> </tbody> </table> <p>Add Rule</p> <p>Warning You will not be able to connect to this instance as the AMI requires port(s) 22 to be open in order to have access. Your current security group doesn't have port(s) 22 open.</p> <p>Cancel Previous Review and Launch</p> <p>Feedback English (US) © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences</p>  <p>Step 7: Review Instance Launch</p> <p>Please review your instance launch details. You can go back to edit changes for each section. Click Launch to assign a key pair to your instance and complete the launch process.</p> <p>AMI Details Edit AMI</p> <p>Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-00dfe2c7ce89a450b Free tier eligible Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is a... Root Device Type: ebs Virtualization type: hvm</p> <p>Instance Type Edit instance type</p> <table border="1"> <thead> <tr> <th>Instance Type</th> <th>ECUs</th> <th>vCPUs</th> <th>Memory (GiB)</th> <th>Instance Storage (GB)</th> <th>EBS-Optimized Available</th> <th>Network Performance</th> </tr> </thead> <tbody> <tr> <td>t2.micro</td> <td>-</td> <td>1</td> <td>1</td> <td>EBS only</td> <td>-</td> <td>Low to Moderate</td> </tr> </tbody> </table> <p>Security Groups Edit security groups</p> <p>Security group name: <input type="text" value="launch-wizard-1"/></p> <p>Cancel Previous Launch</p> <p>Feedback English (US) © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences</p>	Type	Protocol	Port Range	Source	Description	HTTP	TCP	80	Custom	0.0.0.0/0	Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	t2.micro	-	1	1	EBS only	-	Low to Moderate
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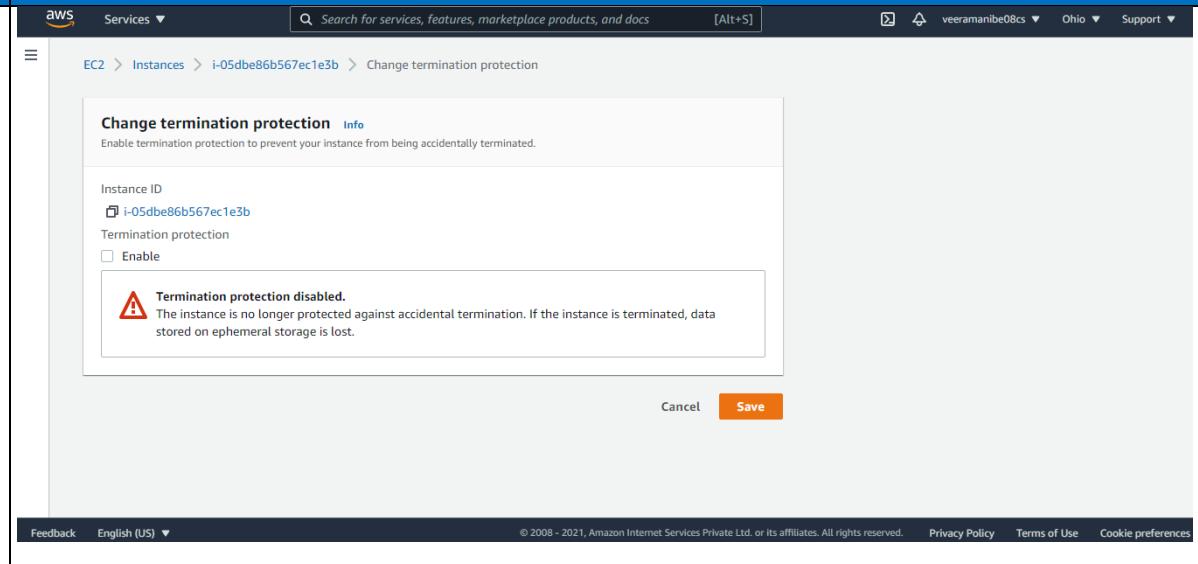
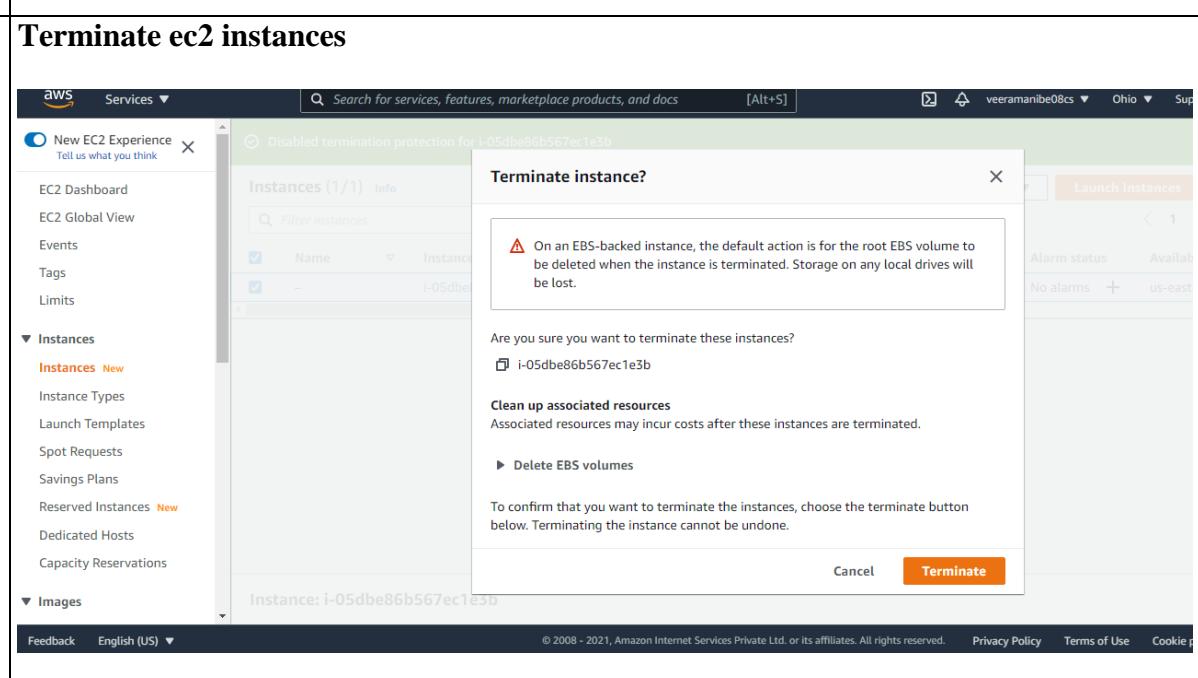
SI No	Description

SI No	Description
	 <p>The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with options like EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and Images. The main content area displays a table with one row for an instance. The instance details are: Name: -, Instance ID: i-05dbe86b567ec1e3b, Instance state: Running, Instance type: t2.micro, Status check: 2/2 checks passed, Alarm status: No alarms, and Availability Zone: us-east-2b.</p>
2.	<h2>Connect instance and system update in console</h2>  <p>The screenshot shows the 'Connect to instance' page for the instance i-05dbe86b567ec1e3b. It features tabs for EC2 Instance Connect, Session Manager, SSH client, and EC2 Serial Console. The EC2 Instance Connect tab is active. It displays the instance ID (i-05dbe86b567ec1e3b), Public IP address (3.143.110.227), and User name (ec2-user). A note at the bottom states: 'Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.'</p>

SI No	Description
	<pre> _ _(_ _)_ _\ _ _ _ _ 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-172-31-23-223 ~]\$ </pre>
	<p>i-05dbe86b567ec1e3b</p> <p>Public IPs: 3.143.110.227 Private IPs: 172.31.23.223</p> <pre> 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-172-31-23-223 ~]\$ sudo yum update Loaded plugins: extras_suggestions, langpacks, priorities, update-motd amzn2-core Resolving Dependencies --> Running transaction check --> Package curl.x86_64 0:7.76.1-4.amzn2.0.1 will be updated --> Package curl.x86_64 0:7.76.1-7.amzn2.0.2 will be an update --> Package device-mapper.x86_64 7:1.02.146-4.amzn2.0.2 will be updated --> Package device-mapper.x86_64 7:1.02.170-6.amzn2.5 will be an update --> Package device-mapper-event.x86_64 7:1.02.146-4.amzn2.0.2 will be updated --> Package device-mapper-event.x86_64 7:1.02.170-6.amzn2.5 will be an update --> Package device-mapper-eventlibs.x86_64 7:1.02.146-4.amzn2.0.2 will be updated --> Package device-mapper-eventlibs.x86_64 7:1.02.170-6.amzn2.5 will be an update --> Package device-mapper-libs.x86_64 7:1.02.146-4.amzn2.0.2 will be updated --> Package device-mapper-libs.x86_64 7:1.02.170-6.amzn2.5 will be an update --> Package glibc.x86_64 0:2.26-48.amzn2 will be updated --> Package glibc.x86_64 0:2.26-54.amzn2 will be an update --> Package glibc-all-langpacks.x86_64 0:2.26-48.amzn2 will be updated --> Package glibc-all-langpacks.x86_64 0:2.26-54.amzn2 will be an update --> Package glibc-common.x86_64 0:2.26-48.amzn2 will be updated </pre> <p>i-05dbe86b567ec1e3b</p> <p>Public IPs: 3.143.110.227 Private IPs: 172.31.23.223</p>

SI No	Description
	<pre>grub2-tools.x86_64 1:2.06-2.amzn2.0.6 grub2-tools-extra.x86_64 1:2.06-2.amzn2.0.6 kernel.x86_64 0:4.14.246-187.474.amzn2 Updated: curl.x86_64 0:7.76.1-7.amzn2.0.2 device-mapper-event.x86_64 7:1.02.170-6.amzn2.5 device-mapper-libs.x86_64 7:1.02.170-6.amzn2.5 glibc-all-langpacks.x86_64 0:2.26-54.amzn2 glibc-locale-source.x86_64 0:2.26-54.amzn2 grub2-common.noarch 1:2.06-2.amzn2.0.6 grub2-pc-modules.noarch 1:2.06-2.amzn2.0.6 libblkid.x86_64 0:2.30.2-2.amzn2.0.5 libcurl.x86_64 0:7.76.1-7.amzn2.0.2 libmount.x86_64 0:2.30.2-2.amzn2.0.5 libuuid.x86_64 0:2.30.2-2.amzn2.0.5 lvm2-libs.x86_64 7:2.02.187-6.amzn2.5 systemd.x86_64 0:219-78.amzn2.0.15 systemd-sysv.x86_64 0:219-78.amzn2.0.15 Replaced: grub2.x86_64 1:2.06-2.amzn2.0.3 Complete! [ec2-user@ip-172-31-23-223 ~]\$ █ i-05dbe86b567ec1e3b Public IPs: 3.143.110.227 Private IPs: 172.31.23.223</pre>
3.	<h3>Terminate ec2 instance</h3>  <p>The screenshot shows the AWS EC2 Dashboard. On the left, there's a sidebar with 'New EC2 Experience' and sections for EC2 Dashboard, Instances (selected), and Images. The main area displays 'Resources' with a summary of running instances (1), dedicated hosts (0), elastic IPs (0), instances (1), key pairs (1), load balancers (0), placement groups (0), security groups (2), and snapshots (0). A tooltip suggests using the AWS Launch Wizard for Microsoft SQL Server Always On availability groups. Below this is a 'Launch instance' section with a note about getting started with an Amazon EC2 instance. The right side shows 'Account attributes' like supported platforms (VPC), default VPC (vpc-7cb7c217), and various settings. At the bottom, there are links for Explore AWS, Best Price-Performance with AWS Graviton2, and standard AWS footer links.</p>

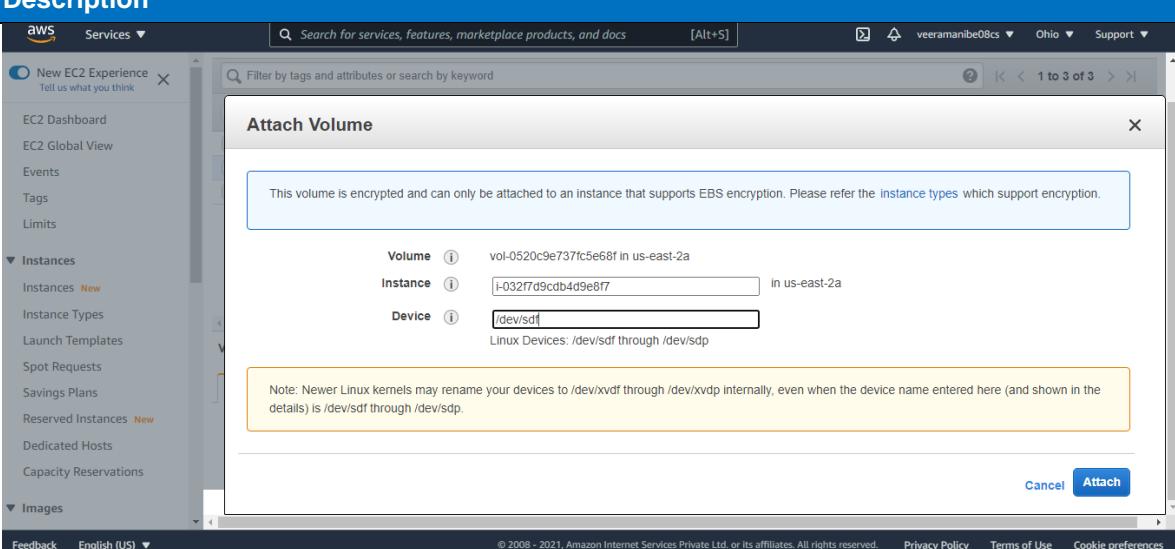
SI No	Description
	
4.	<p>Disable terminate protection</p>

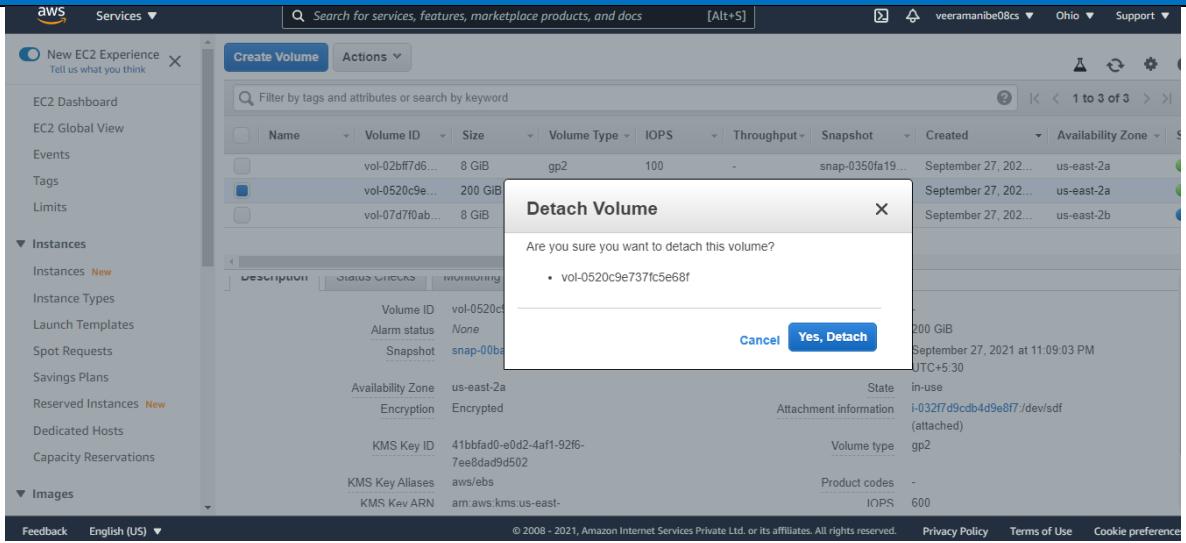
SI No	Description
	
5.	<h3>Terminate ec2 instances</h3> 

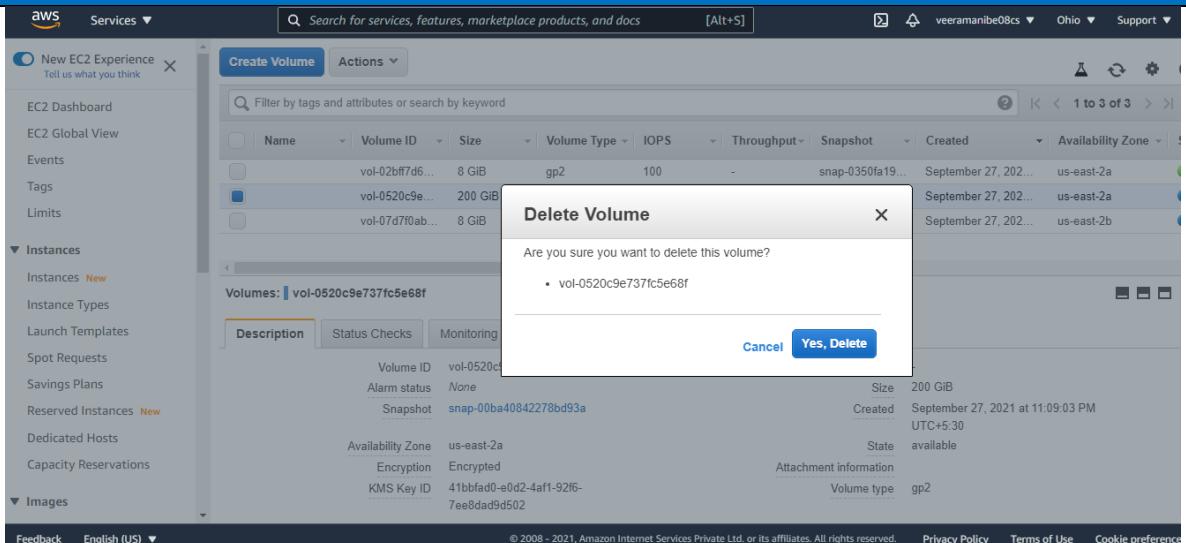
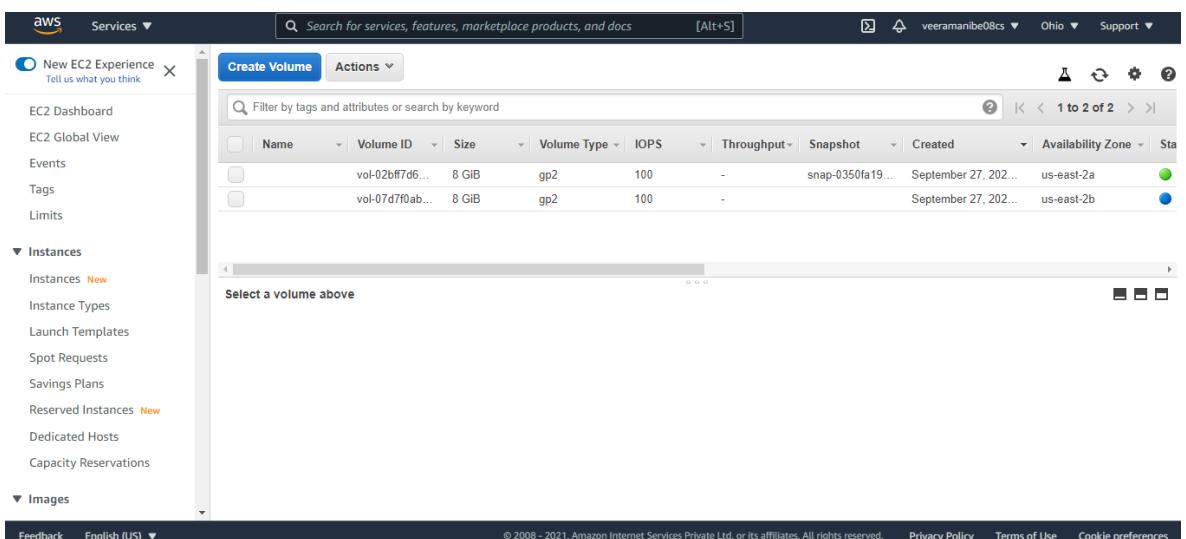
SI No	Description														
	<p>The screenshot shows the AWS EC2 Instances page. At the top, there are two notifications: "Disabled termination protection for i-05dbe86b567ec1e3b" and "Successfully terminated i-05dbe86b567ec1e3b". The main table lists one instance:</p> <table border="1"><thead><tr><th>Name</th><th>Instance ID</th><th>Instance state</th><th>Instance type</th><th>Status check</th><th>Alarm status</th><th>Availability Zone</th></tr></thead><tbody><tr><td>-</td><td>i-05dbe86b567ec1e3b</td><td>Shutting-down</td><td>t2.micro</td><td>2/2 checks passed</td><td>No alarms</td><td>us-east-2b</td></tr></tbody></table> <p>At the bottom, it says "Instance: i-05dbe86b567ec1e3b".</p>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	-	i-05dbe86b567ec1e3b	Shutting-down	t2.micro	2/2 checks passed	No alarms	us-east-2b
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone									
-	i-05dbe86b567ec1e3b	Shutting-down	t2.micro	2/2 checks passed	No alarms	us-east-2b									

3 Assignment - 3

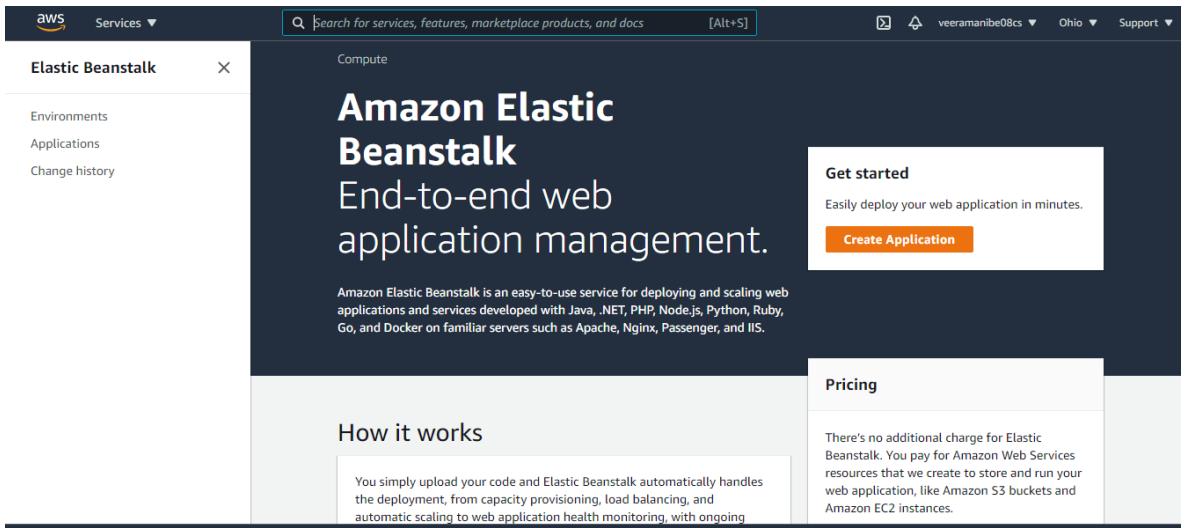
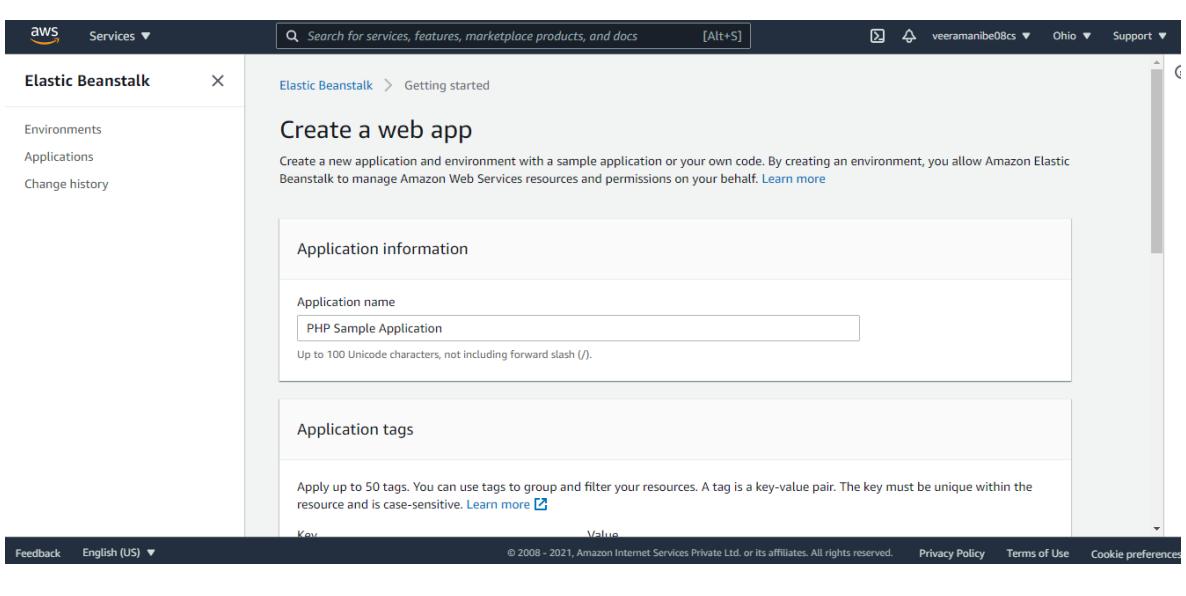
SI No	Description
1.	<p>Working with EBS volumes</p> <p>Create a volume</p> <p>Feedback English (US) ▾ © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences</p> <p>Feedback English (US) ▾ © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences</p>
2.	<p>Attach volume to instance</p>

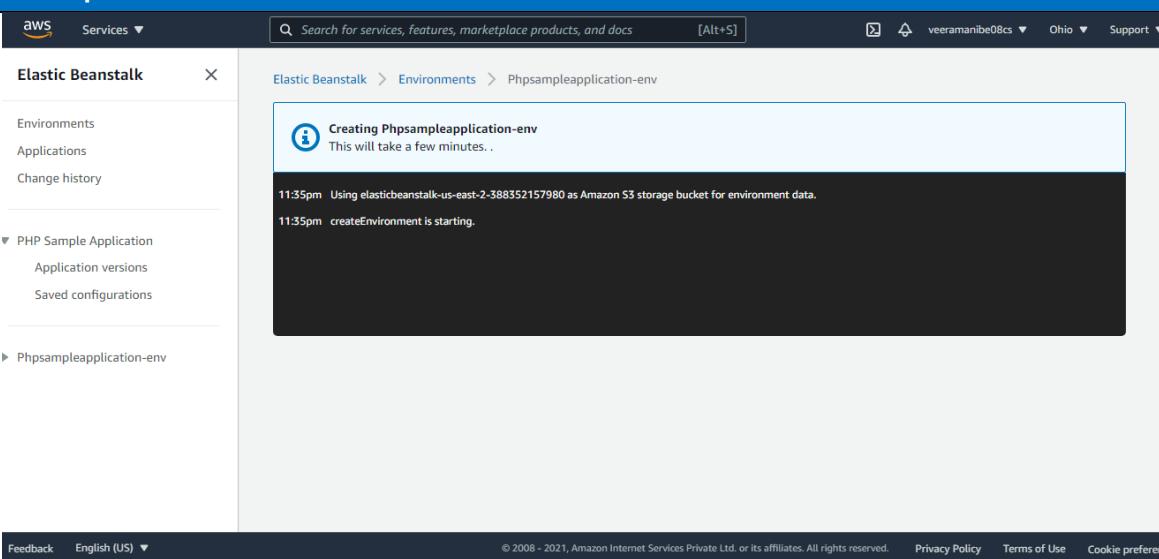
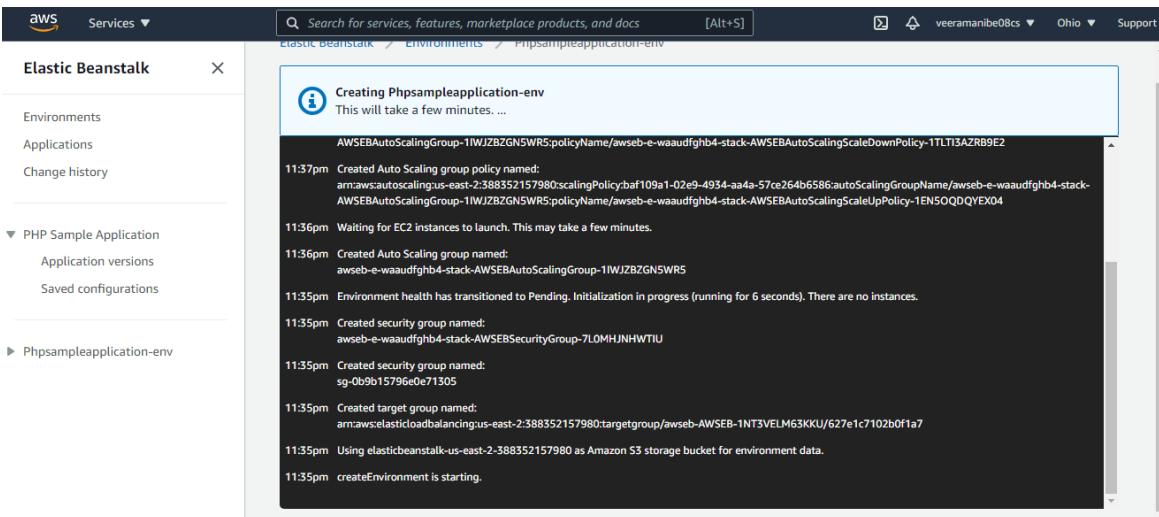
SI No	Description
	
3.	Detach the volume

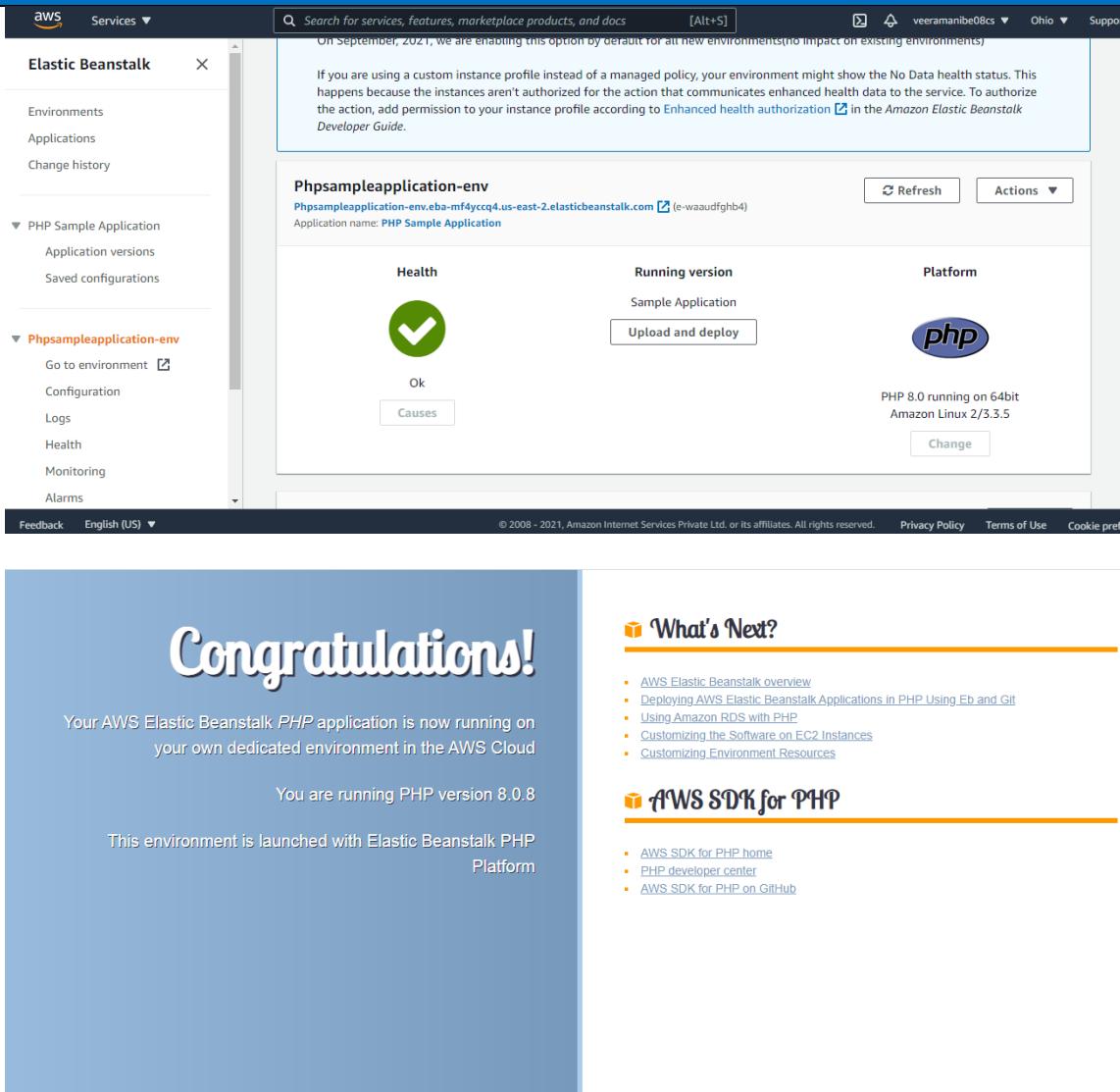
SI No	Description
	
4.	Delete the volume

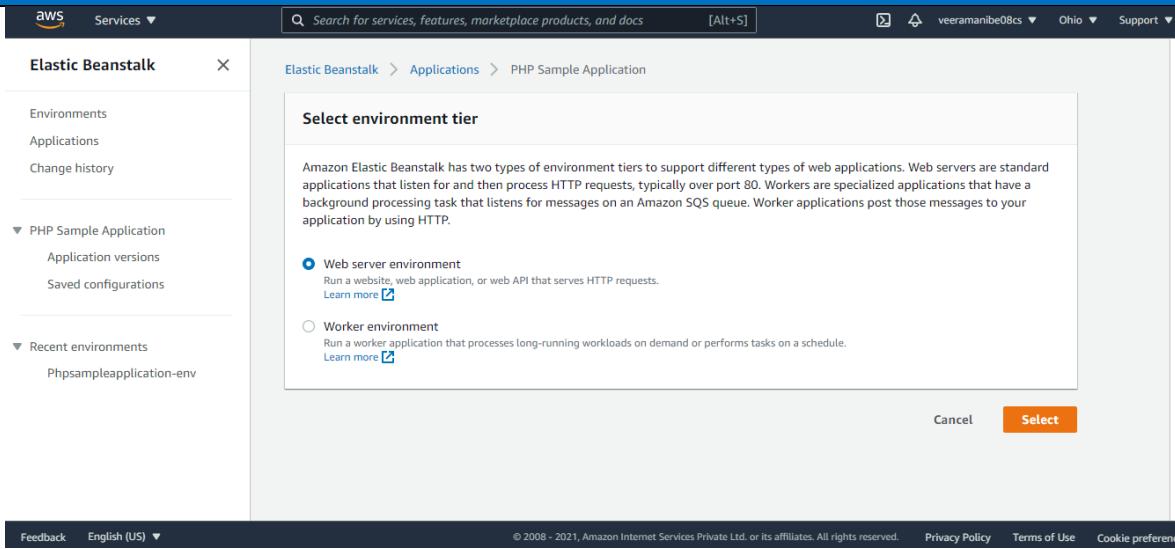
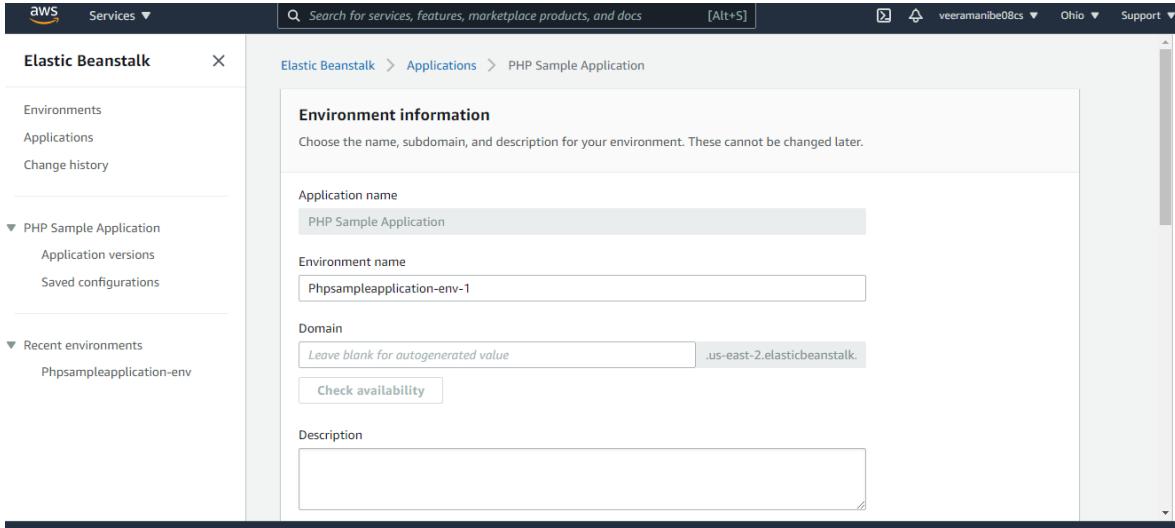
SI No	Description
	 <p>The screenshot shows the AWS EC2 Volumes page. A volume named 'vol-0520c9e737fc5e68f' is selected. A 'Delete Volume' dialog box is open, asking 'Are you sure you want to delete this volume?' with the volume ID listed. The volume details shown are: Volume ID: vol-0520c9e737fc5e68f, Size: 200 GiB, Created: September 27, 2021 at 11:09:03 PM UTC+5:30, State: available, Volume type: gp2.</p>
	 <p>The screenshot shows the same AWS EC2 Volumes page after the volume has been deleted. The volume 'vol-0520c9e737fc5e68f' is no longer listed in the table.</p>

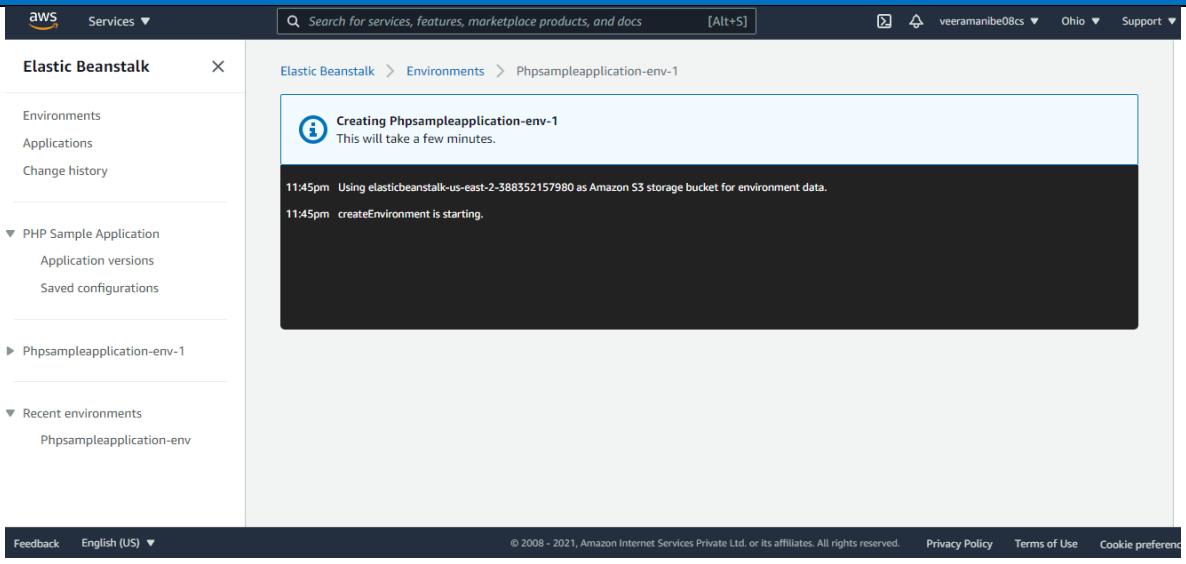
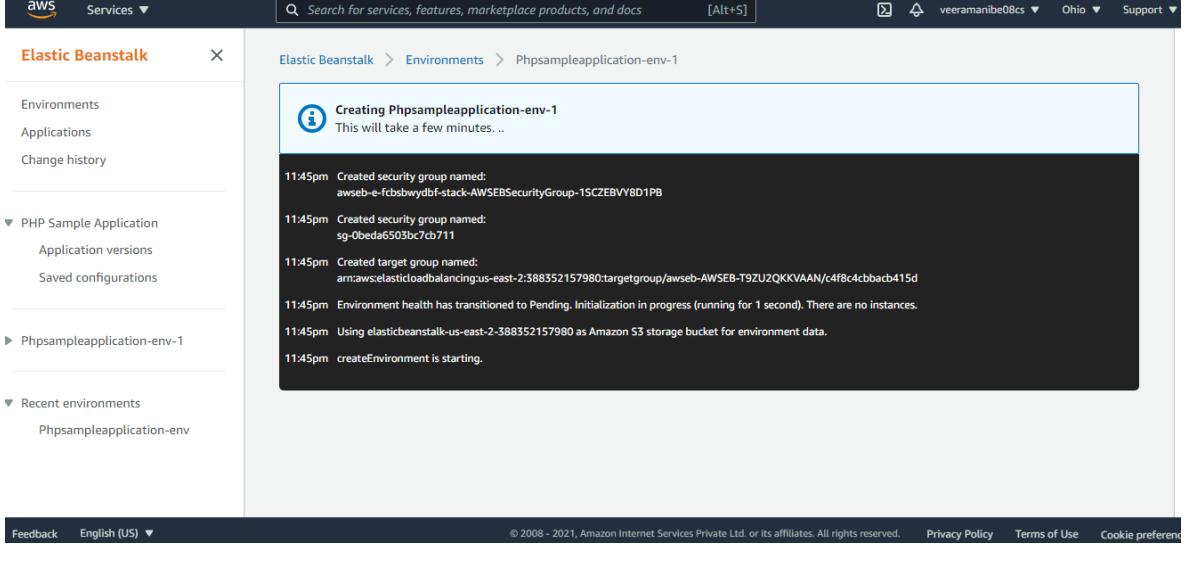
4 Assignment - 4

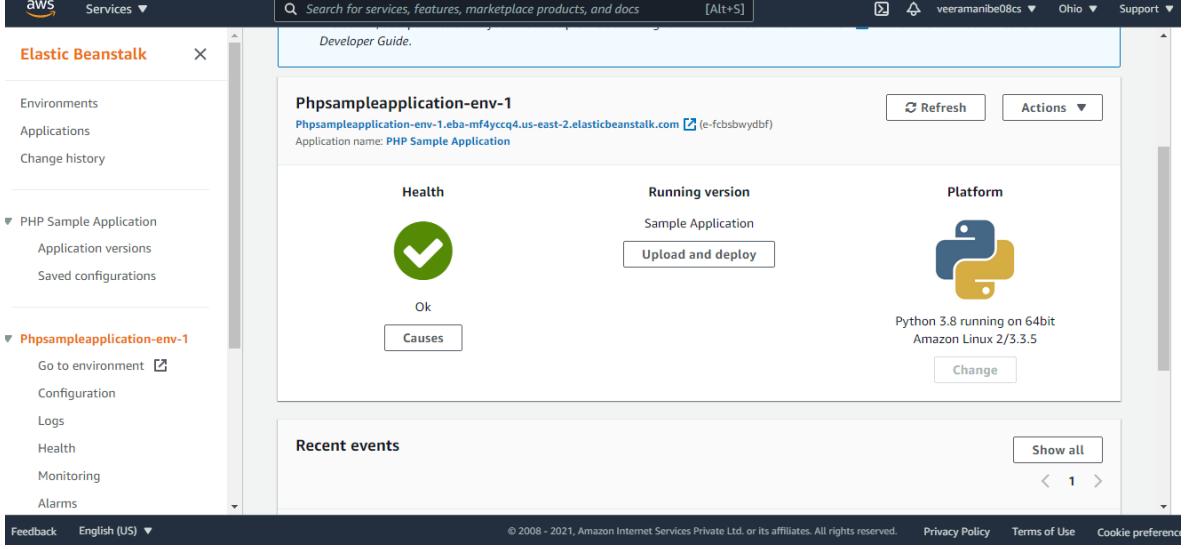
SI No	Description
1.	<p>Working with elastic beanstalk</p> <p>Deploy sample application on elastic beanstalk</p>  <p>The screenshot shows the AWS Elastic Beanstalk service page. The main heading is "Amazon Elastic Beanstalk" with the subtitle "End-to-end web application management". Below this, a description states: "Amazon Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS." A prominent orange "Create Application" button is located on the right side. The left sidebar includes links for Environments, Applications, and Change history.</p>  <p>The screenshot shows the "Create a web app" wizard. The first step, "Application information", is displayed. It asks for the "Application name" which is set to "PHP Sample Application". A note below says "Up to 100 Unicode characters, not including forward slash (/)". The left sidebar shows the "Elastic Beanstalk" navigation path.</p>

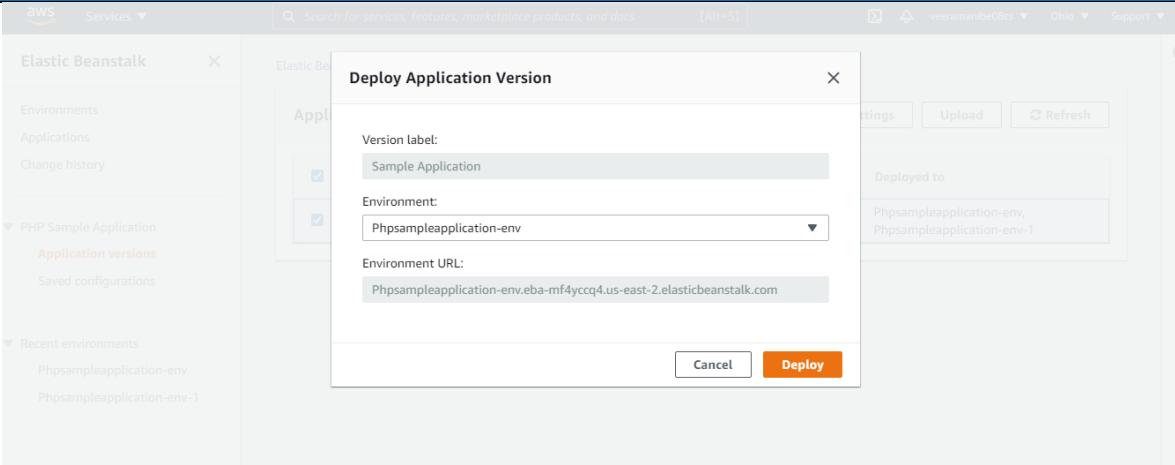
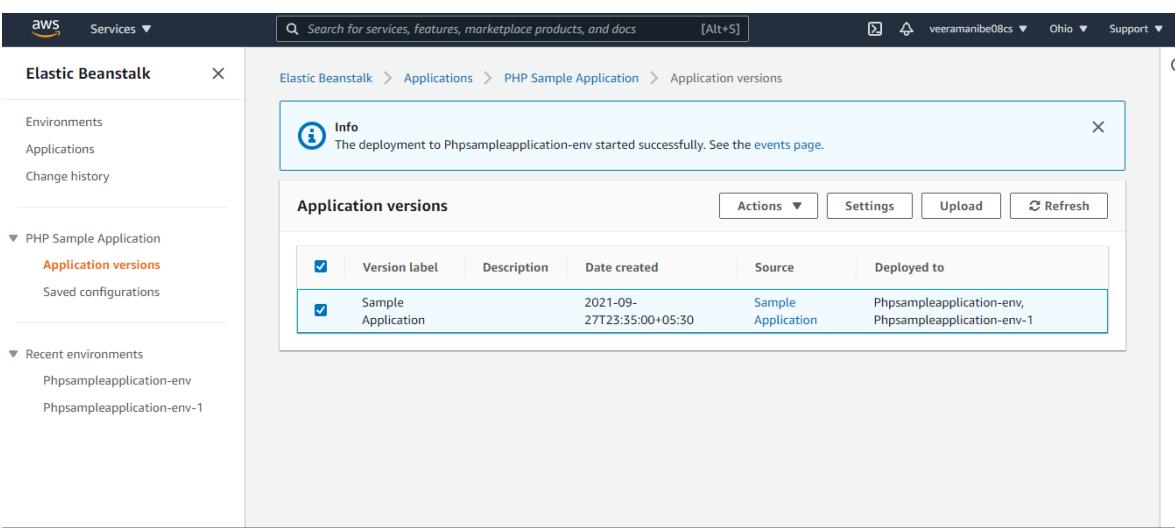
SI No	Description
	 <p>Creating Phpsampleapplication-env This will take a few minutes..</p> <pre>11:35pm Using elasticbeanstalk-us-east-2-388352157980 as Amazon S3 storage bucket for environment data. 11:35pm createEnvironment is starting.</pre>
	 <p>Creating Phpsampleapplication-env This will take a few minutes ...</p> <pre>AWSAutoScalingGroup-1IWJZB2GN5WR5:policyName/awseb-e-waaudfghb4-stack-AWSEBAutoScalingScaleDownPolicy-1TLT13AZRB9E2 11:37pm Created Auto Scaling group policy named: arnawsautoscaling:us-east-2:388352157980:scalingPolicy:baf109a1-02e9-4934-aa4a-57ce264b6586:autoScalingGroupName/awseb-e-waaudfghb4-stack- AWSEBAutoScalingGroup-1IWJZB2GN5WR5:policyName/awseb-e-waaudfghb4-stack-AWSEBAutoScalingScaleUpPolicy-1EN5OQDQYEX04 11:36pm Waiting for EC2 instances to launch. This may take a few minutes. 11:36pm Created Auto Scaling group named: awseb-e-waaudfghb4-stack-AWSEBAutoScalingGroup-1IWJZB2GN5WR5 11:35pm Environment health has transitioned to Pending. Initialization in progress (running for 6 seconds). There are no instances. 11:35pm Created security group named: awseb-e-waaudfghb4-stack-AWSEBSecurityGroup-7L0MHJNHWTIU 11:35pm Created security group named: sg-0b9b15796e0e71305 11:35pm Created target group named: arnawselasticloadbalancing:us-east-2:388352157980:targetgroup/awseb-AWSEB-1NT3VELM63KKU/627e1c7102b0f1a7 11:35pm Using elasticbeanstalk-us-east-2-388352157980 as Amazon S3 storage bucket for environment data. 11:35pm createEnvironment is starting.</pre>

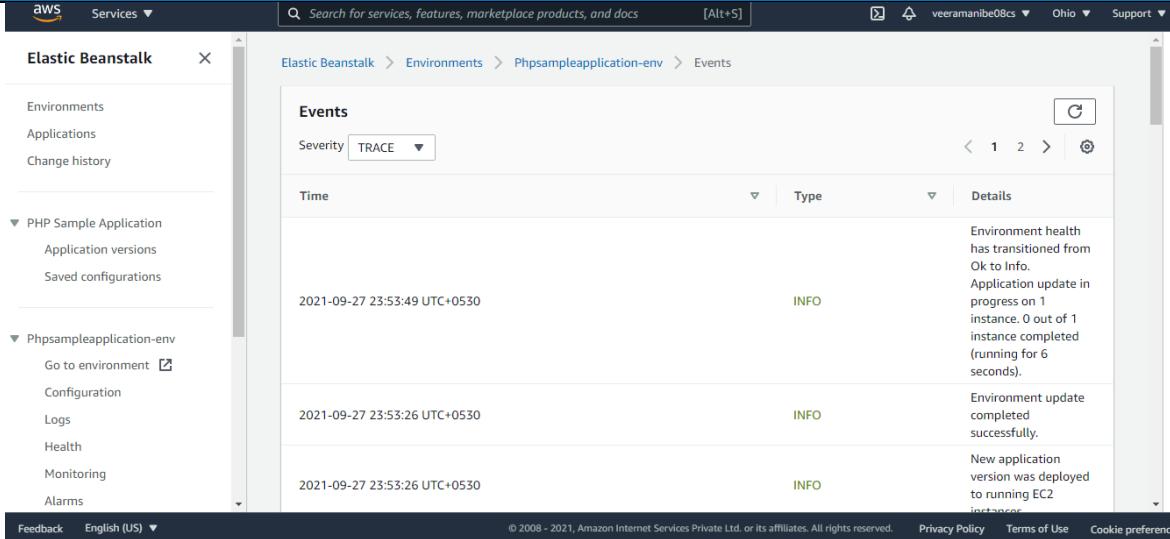
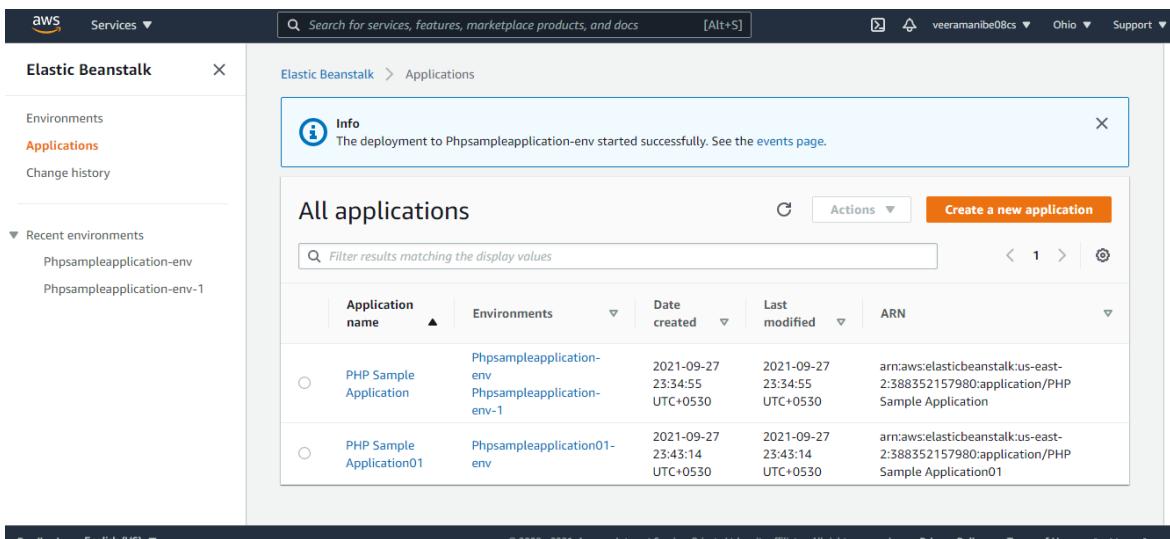
SI No	Description
2.	 <p>Congratulations! Your AWS Elastic Beanstalk PHP application is now running on your own dedicated environment in the AWS Cloud You are running PHP version 8.0.8 This environment is launched with Elastic Beanstalk PHP Platform</p> <p>What's Next?</p> <ul style="list-style-type: none"> AWS Elastic Beanstalk overview Deploying AWS Elastic Beanstalk Applications in PHP Using Eb and Git Using Amazon RDS with PHP Customizing the Software on EC2 Instances Customizing Environment Resources <p>AWS SDK for PHP</p> <ul style="list-style-type: none"> AWS SDK for PHP home PHP developer center AWS SDK for PHP on GitHub

SI No	Description
	 <p>Elastic Beanstalk > Applications > PHP Sample Application</p> <p>Select environment tier</p> <p>Amazon Elastic Beanstalk has two types of environment tiers to support different types of web applications. Web servers are standard applications that listen for and then process HTTP requests, typically over port 80. Workers are specialized applications that have a background processing task that listens for messages on an Amazon SQS queue. Worker applications post those messages to your application by using HTTP.</p> <p><input checked="" type="radio"/> Web server environment Run a website, web application, or web API that serves HTTP requests. Learn more</p> <p><input type="radio"/> Worker environment Run a worker application that processes long-running workloads on demand or performs tasks on a schedule. Learn more</p> <p>Cancel Select</p>
	 <p>Elastic Beanstalk > Applications > PHP Sample Application</p> <p>Environment information</p> <p>Choose the name, subdomain, and description for your environment. These cannot be changed later.</p> <p>Application name PHP Sample Application</p> <p>Environment name Phpsampleapplication-env-1</p> <p>Domain Leave blank for autogenerated value .us-east-2.elasticbeanstalk Check availability</p> <p>Description</p> <p>Feedback English (US) ▾ © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences</p>

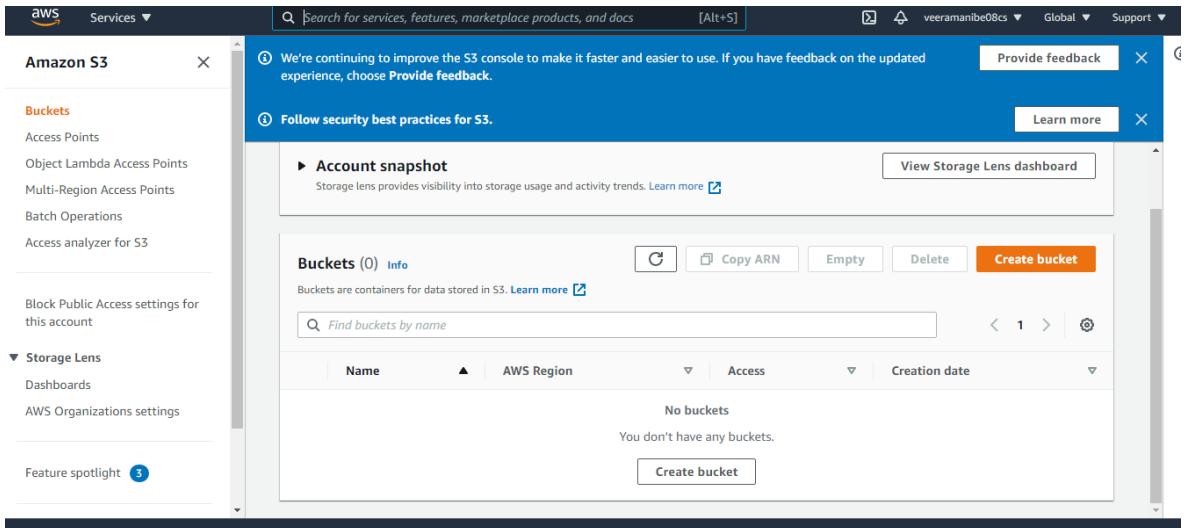
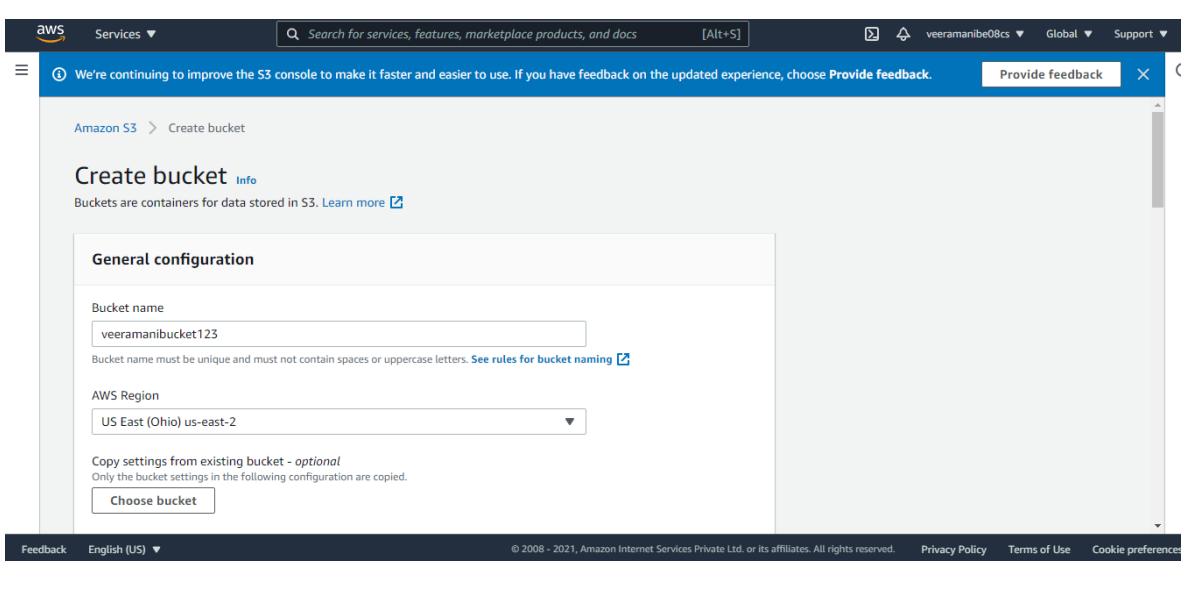
SI No	Description
	 <p>The screenshot shows the AWS Elastic Beanstalk console. The left sidebar has 'Elastic Beanstalk' selected. Under 'PHP Sample Application', 'Phpsampleapplication-env-1' is selected. The main area shows a progress message: 'Creating Phpsampleapplication-env-1' and 'This will take a few minutes.' Below it, log entries show the creation of security groups and target groups.</p> <pre> 11:45pm Using elasticbeanstalk-us-east-2-388352157980 as Amazon S3 storage bucket for environment data. 11:45pm createEnvironment is starting. 11:45pm Created security group named: awseb-e-fcbswydbf-stack-AWSEBSecurityGroup-1SCZEBVY8D1PB 11:45pm Created security group named: sg-0beda6503bc7cb711 11:45pm Created target group named: armaws:elasticloadbalancing:us-east-2:388352157980:targetgroup/awseb-AWSEB-T9ZU2QKKVAAN/c4f8c4cbbacb415d 11:45pm Environment health has transitioned to Pending. Initialization in progress (running for 1 second). There are no instances. 11:45pm Using elasticbeanstalk-us-east-2-388352157980 as Amazon S3 storage bucket for environment data. 11:45pm createEnvironment is starting. </pre>
	 <p>The screenshot shows the AWS Elastic Beanstalk console. The left sidebar has 'Elastic Beanstalk' selected. Under 'PHP Sample Application', 'Phpsampleapplication-env-1' is selected. The main area shows a progress message: 'Creating Phpsampleapplication-env-1' and 'This will take a few minutes..'. Below it, log entries show the creation of security groups and target groups.</p> <pre> 11:45pm Created security group named: awseb-e-fcbswydbf-stack-AWSEBSecurityGroup-1SCZEBVY8D1PB 11:45pm Created security group named: sg-0beda6503bc7cb711 11:45pm Created target group named: armaws:elasticloadbalancing:us-east-2:388352157980:targetgroup/awseb-AWSEB-T9ZU2QKKVAAN/c4f8c4cbbacb415d 11:45pm Environment health has transitioned to Pending. Initialization in progress (running for 1 second). There are no instances. 11:45pm Using elasticbeanstalk-us-east-2-388352157980 as Amazon S3 storage bucket for environment data. 11:45pm createEnvironment is starting. </pre>

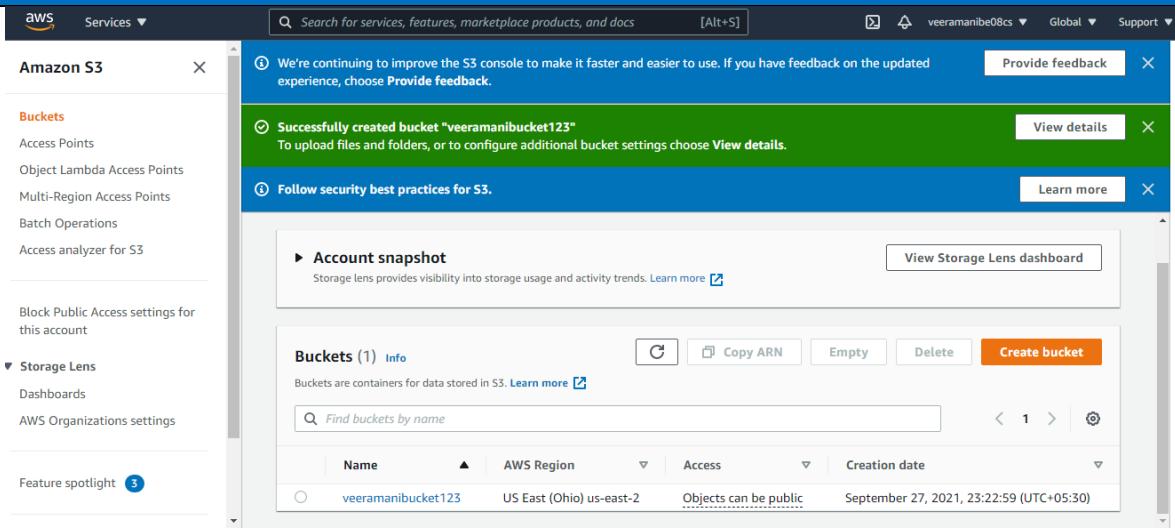
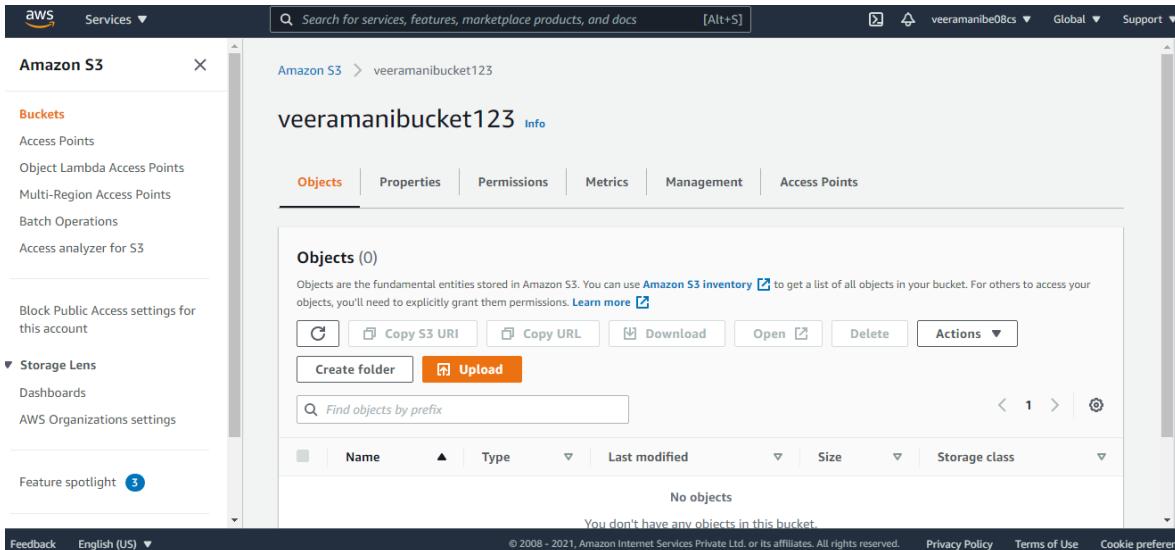
SI No	Description
3.	 <p>Congratulations</p> <p>Your first AWS Elastic Beanstalk Python Application is now running on your own dedicated environment in the AWS Cloud</p> <p>This environment is launched with Elastic Beanstalk Python Platform</p> <p>What's Next?</p> <ul style="list-style-type: none"> AWS Elastic Beanstalk overview AWS Elastic Beanstalk concepts Deploy a Django Application to AWS Elastic Beanstalk Deploy a Flask Application to AWS Elastic Beanstalk Customizing and Configuring a Python Container Working with Logs

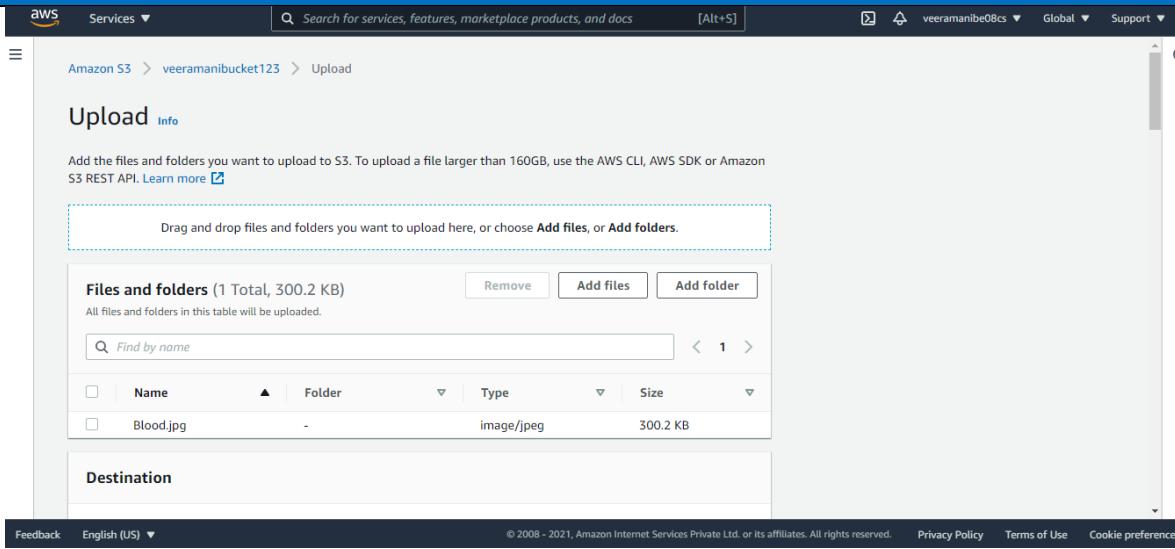
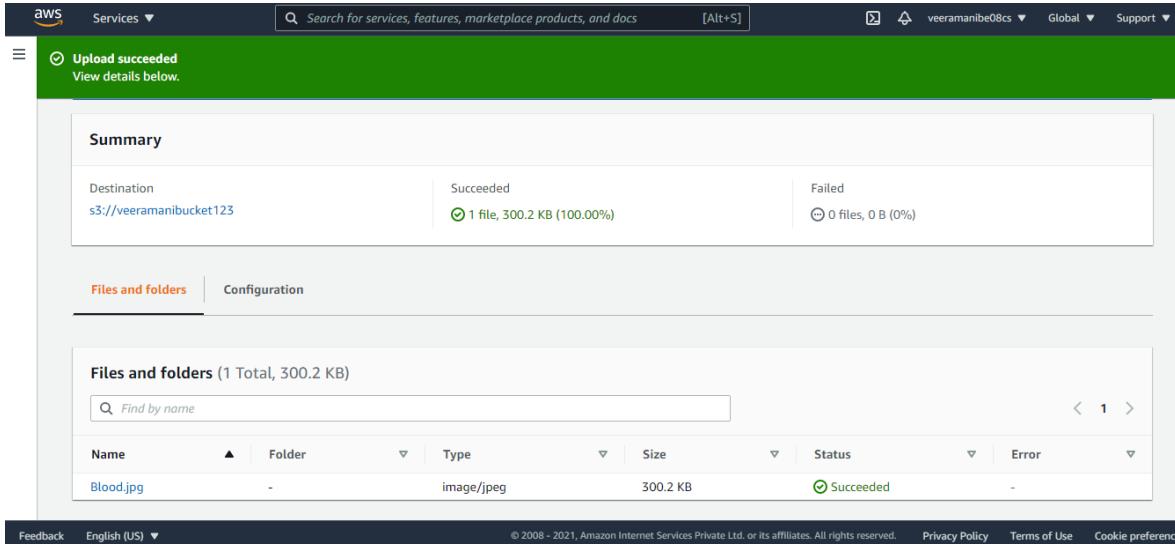
SI No	Description
	 

SI No	Description															
	 <p>The screenshot shows the AWS Elastic Beanstalk Events page for the environment 'Phpsampleapplication-env'. It displays three log entries:</p> <ul style="list-style-type: none"> 2021-09-27 23:53:49 UTC+0530 INFO Environment health has transitioned from Ok to Info. Application update in progress on 1 instance. 0 out of 1 instance completed (running for 6 seconds). 2021-09-27 23:53:26 UTC+0530 INFO Environment update completed successfully. 2021-09-27 23:53:26 UTC+0530 INFO New application version was deployed to running EC2 instances. 															
	 <p>The screenshot shows the AWS Elastic Beanstalk Applications page. A success message states: "The deployment to Phpsampleapplication-env started successfully. See the events page." The table lists two applications:</p> <table border="1"> <thead> <tr> <th>Application name</th> <th>Environments</th> <th>Date created</th> <th>Last modified</th> <th>ARN</th> </tr> </thead> <tbody> <tr> <td>PHP Sample Application</td> <td>Phpsampleapplication-env Phpsampleapplication-env-1</td> <td>2021-09-27 23:34:55 UTC+0530</td> <td>2021-09-27 23:34:55 UTC+0530</td> <td>arn:aws:elasticbeanstalk:us-east-2:388352157980:application/PHP Sample Application</td> </tr> <tr> <td>PHP Sample Application01</td> <td>Phpsampleapplication01-env</td> <td>2021-09-27 23:43:14 UTC+0530</td> <td>2021-09-27 23:43:14 UTC+0530</td> <td>arn:aws:elasticbeanstalk:us-east-2:388352157980:application/PHP Sample Application01</td> </tr> </tbody> </table>	Application name	Environments	Date created	Last modified	ARN	PHP Sample Application	Phpsampleapplication-env Phpsampleapplication-env-1	2021-09-27 23:34:55 UTC+0530	2021-09-27 23:34:55 UTC+0530	arn:aws:elasticbeanstalk:us-east-2:388352157980:application/PHP Sample Application	PHP Sample Application01	Phpsampleapplication01-env	2021-09-27 23:43:14 UTC+0530	2021-09-27 23:43:14 UTC+0530	arn:aws:elasticbeanstalk:us-east-2:388352157980:application/PHP Sample Application01
Application name	Environments	Date created	Last modified	ARN												
PHP Sample Application	Phpsampleapplication-env Phpsampleapplication-env-1	2021-09-27 23:34:55 UTC+0530	2021-09-27 23:34:55 UTC+0530	arn:aws:elasticbeanstalk:us-east-2:388352157980:application/PHP Sample Application												
PHP Sample Application01	Phpsampleapplication01-env	2021-09-27 23:43:14 UTC+0530	2021-09-27 23:43:14 UTC+0530	arn:aws:elasticbeanstalk:us-east-2:388352157980:application/PHP Sample Application01												

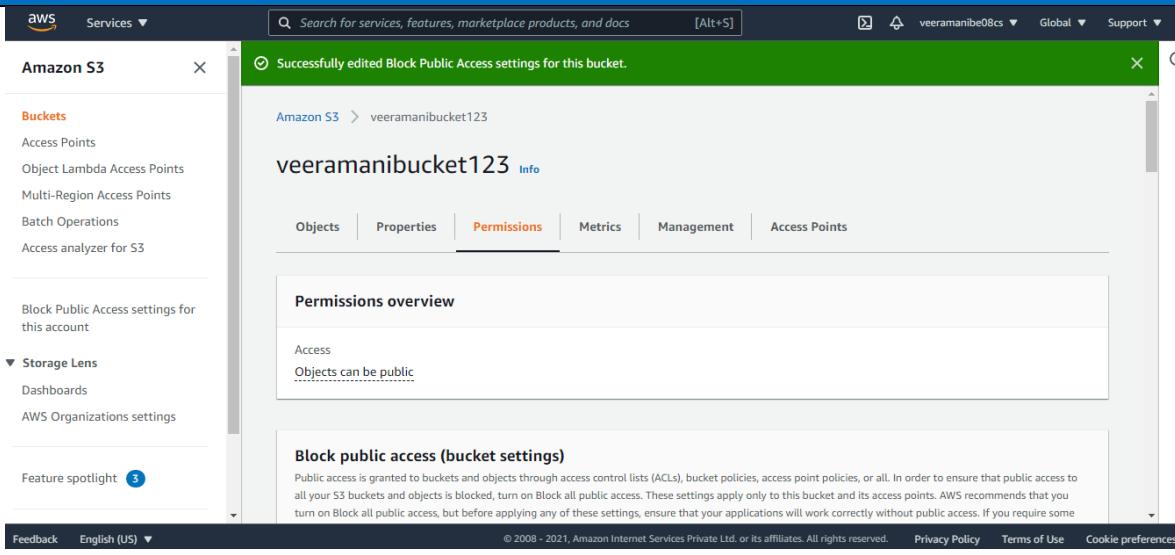
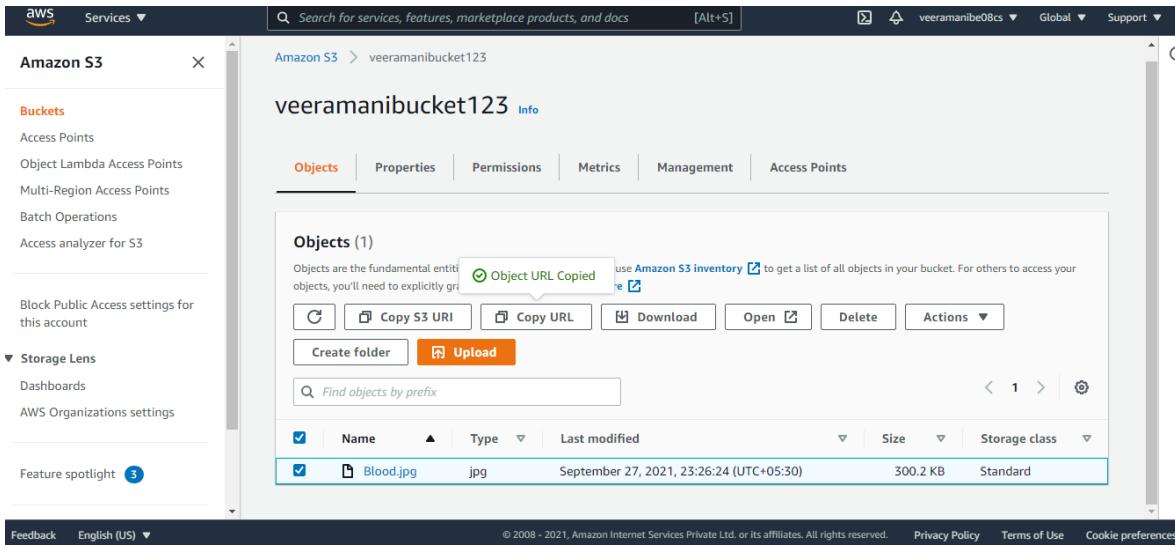
5 Assignment - 5

SI No	Description
1.	<p>Working on S3</p> <p>Create an S3 bucket</p>  

SI No	Description
	 <p>The screenshot shows the AWS S3 console. At the top, there's a search bar and a message: "We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback." Below this, a green banner says "Successfully created bucket 'veeramanibucket123'". It also says "To upload files and folders, or to configure additional bucket settings choose View details." Another message at the bottom encourages following security best practices for S3. The main area shows an "Account snapshot" and a table for "Buckets (1) Info". The table has one row for "veeramanibucket123" located in "US East (Ohio) us-east-2". The object is public, and it was created on September 27, 2021, at 23:22:59 (UTC+05:30).</p>
2.	<h2>Upload object into S3 bucket</h2>  <p>The screenshot shows the "Objects" tab of the "veeramanibucket123" bucket. It features a prominent orange "Upload" button. Below it is a search bar and a table for managing objects. The table header includes columns for Name, Type, Last modified, Size, and Storage class. A note at the bottom states, "No objects" and "You don't have any objects in this bucket."</p>

SI No	Description
	 <p>The screenshot shows the AWS S3 'Upload' interface. At the top, there's a search bar and navigation links for 'Services', 'Global', and 'Support'. Below the header, the path 'Amazon S3 > veeramanibucket123 > Upload' is visible. The main area is titled 'Upload' with a 'Info' link. A large text box says 'Drag and drop files and folders you want to upload here, or choose Add files, or Add folders.' Below this, a table lists 'Files and folders (1 Total, 300.2 KB)'. It shows one item: 'Blood.jpg' (image/jpeg, 300.2 KB). There are 'Remove', 'Add files', and 'Add folder' buttons. A 'Destination' section is present. At the bottom, there are links for 'Feedback', 'English (US)', and 'Cookie preferences'.</p>
3.	 <p>The screenshot shows the AWS S3 upload success summary. At the top, a green banner says 'Upload succeeded' and 'View details below.'. Below it, a 'Summary' section shows 'Destination' as 's3://veeramanibucket123'. It lists 'Succeeded' (1 file, 300.2 KB (100.00%)) and 'Failed' (0 files, 0 B (0%)). Below this, a 'Files and folders' section shows a table with one item: 'Blood.jpg' (image/jpeg, 300.2 KB, Status: Succeeded). At the bottom, there are links for 'Feedback', 'English (US)', and 'Cookie preferences'.</p> <p>Make object and bucket public</p>

SI No	Description
	<p>The screenshot shows the 'Edit Block public access (bucket settings)' page for the 'veeramanibucket123' bucket. The 'Block all public access' checkbox is checked. A modal dialog box is displayed, containing a warning message: 'Updating the Block Public Access settings for this bucket will affect this bucket and all objects within. This may result in some objects becoming public.' Below the message is a text input field with the value 'confirm'. At the bottom of the modal are 'Cancel' and 'Confirm' buttons.</p>

SI No	Description
	 <p>The screenshot shows the AWS S3 console with the bucket 'veeramanibucket123'. In the 'Permissions' tab, it indicates that 'Objects can be public'. A success message at the top says 'Successfully edited Block Public Access settings for this bucket.'</p>
4.	Access the object using object URL  <p>The screenshot shows the AWS S3 console with the bucket 'veeramanibucket123'. In the 'Objects' tab, there is one object named 'Blood.jpg' which has been copied to the clipboard. The object details show it is a jpg file from September 27, 2021, at 300.2 KB.</p>

