

Cloud Computing

UE20CS351

Experiment 1

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Screenshots of Deliverables:

1. Summary of instance before launching(Review Instance Launch)

The screenshot displays the AWS Management Console interface for reviewing an instance launch. The left sidebar contains the 'Metadata' section with the following settings: 'Metadata accessible' is 'Enabled', 'Metadata version' is 'V1 and V2 (token optional)', 'Metadata response hop limit' is '1', and 'Allow tags in metadata' is 'Disable'. The 'User data' field contains a script:

```
#!/bin/bash
yum -y install httpd
systemctl enable httpd
systemctl start httpd
echo '<html><h1>Hello From Your Web Server!</h1></html>' >
/var/www/html/index.html
```

. The right sidebar shows the 'Summary' panel with the following details: 'Number of instances' is 1, 'Software Image (AMI)' is 'Amazon Linux 2 Kernel 5.10 AMI', 'Virtual server type (instance type)' is 't2.micro', 'Firewall (security group)' is 'New security group', and 'Storage (volumes)' is '1 volume(s) - 8 GiB'. A 'Free tier' notification is displayed. At the bottom right are 'Cancel' and 'Launch instance' buttons.

2. EC2 Instance in running state

The screenshot displays the AWS Management Console interface for the us-east-1 region. The left-hand navigation pane includes sections for 'New EC2 Experience', 'Instances' (with sub-links like Instance Types, Launch Templates, etc.), 'Images', and 'Elastic Block Store'. The main content area is titled 'Instances (1/1) info' and features a table with one instance: 'Web-Server' with ID 'i-04b7cce20d06f8dfe', status 'Running', and type 't2.micro'. Below the table, the 'Instance: i-04b7cce20d06f8dfe (Web-Server)' details are shown, including a summary of its configuration: Instance ID, Public IPv4 address (54.211.201.156), Private IPv4 address (10.0.1.250), Instance state (Running), Hostname type (ip-10-0-1-250.ec2.internal), and Instance type (t2.micro).

Instances (1/1) info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Publ
Web-Server	i-04b7cce20d06f8dfe	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-

Instance: i-04b7cce20d06f8dfe (Web-Server)

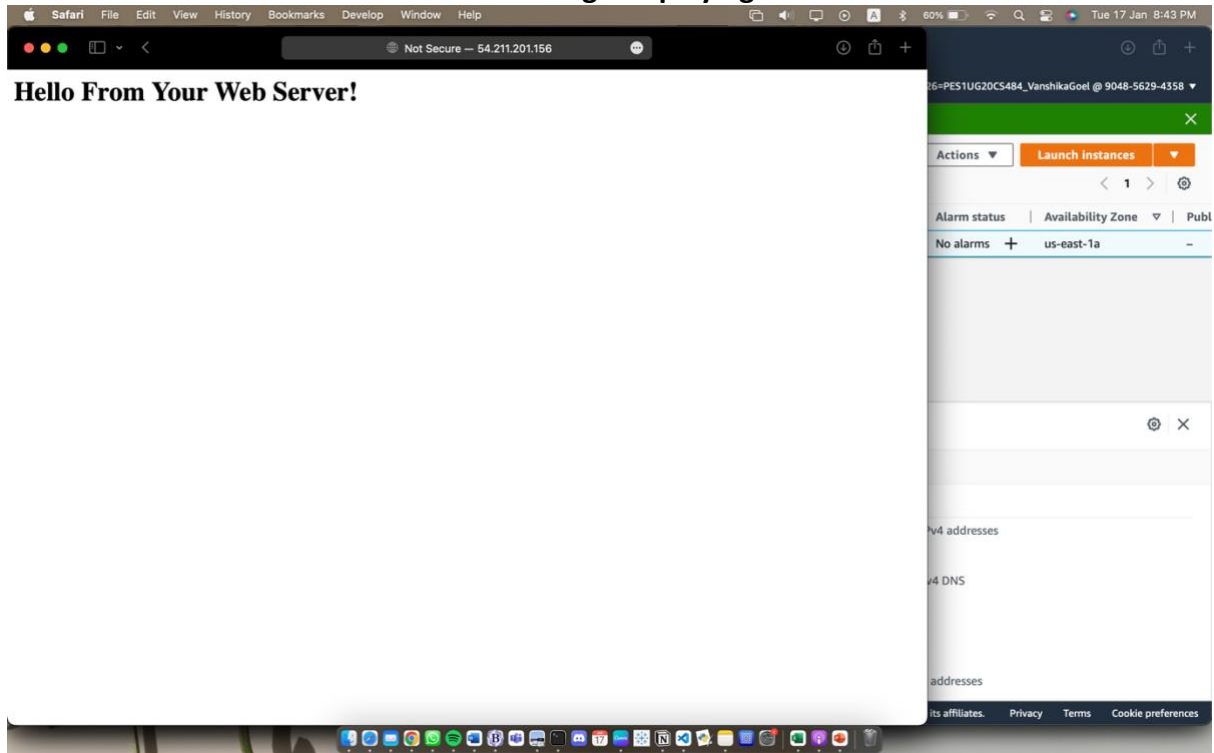
Details | Security | Networking | Storage | Status checks | Monitoring | Tags

▼ Instance summary info

Instance ID i-04b7cce20d06f8dfe (Web-Server)	Public IPv4 address 54.211.201.156 open address	Private IPv4 addresses 10.0.1.250
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-54-211-201-156.compute-1.amazonaws.com open address
Hostname type IP name: ip-10-0-1-250.ec2.internal	Private IP DNS name (IPv4 only) ip-10-0-1-250.ec2.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	

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3. Web server browser with the message displaying



4. Showing the instance volume resized

New EC2 Experience
Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

us-east-1.console.aws.amazon.com

54-211.201.156

Search

[Option+S]

N. Virginia

voclabs/user2357326-PES1UG20CS484_VanshikaGoel @ 9048-5629-4358

You can now create Amazon Data Lifecycle Manager policies to automate snapshot management directly from this screen. Select the volumes to back up, and then choose Actions, Create snapshot lifecycle policy. For more information, see the Knowledge Center article.

Volumes (1/1)

Search

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
<input checked="" type="checkbox"/>	Web-Server	vol-045198b1f18fb1d8f	gp2	10 GiB	100	-	snap-097c82c...	2023/01/17 20:03 GMT+5

Volume ID: vol-045198b1f18fb1d8f (Web-Server)

Details | Status checks | Monitoring | Tags

Details

Volume ID vol-045198b1f18fb1d8f (Web-Server)	Size 10 GiB	Type gp2	Volume status Okay
AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more	Volume state In-use - optimizing (0%)	IOPS 100	Throughput -

Feedback

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5. EC2 Instance in stopped state

The screenshot displays the AWS Management Console interface. On the left, the navigation menu includes 'New EC2 Experience', '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', 'AMI Catalog', 'Elastic Block Store', 'Volumes', 'Snapshots', and 'Lifecycle Manager'. The main content area is titled 'Instances (1/1) info'. A search bar is present with the placeholder text 'Find instance by attribute or tag (case-sensitive)'. Below the search bar, a table lists the instances. The table has columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IP. The instance 'Web-Server' with ID 'i-04b7cce20d06f8dfe' is shown in a 'Stopped' state, using the 't2.micro' instance type. Above the table, there are buttons for 'Connect', 'Instance state', 'Actions', and 'Launch instances'. Below the table, the details for the selected instance 'i-04b7cce20d06f8dfe (Web-Server)' are shown. The details are organized into tabs: 'Details', 'Security', 'Networking', 'Storage', 'Status checks', 'Monitoring', and 'Tags'. The 'Details' tab is active, showing a summary of the instance's configuration, including its ID, IP addresses, hostname type, and instance type.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
Web-Server	i-04b7cce20d06f8dfe	Stopped	t2.micro	-	No alarms	us-east-1a	-

Instance: i-04b7cce20d06f8dfe (Web-Server)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-04b7cce20d06f8dfe (Web-Server)	-	10.0.1.250

IPv6 address	Instance state	Public IPv4 DNS
-	Stopped	-

Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-10-0-1-250.ec2.internal	ip-10-0-1-250.ec2.internal	-

Answer private resource DNS name	Instance type	Elastic IP addresses
IPv4 (A)	t2.micro	-

EC2 Instance in terminated state

The screenshot displays the AWS Management Console interface. On the left, the navigation menu includes 'New EC2 Experience', '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', 'AMI Catalog', 'Elastic Block Store', 'Volumes', 'Snapshots', and 'Lifecycle Manager'. The main content area is titled 'Instances (1/1) info'. A search bar is present with the placeholder text 'Find instance by attribute or tag (case-sensitive)'. Below the search bar, a table lists the instances. The table has columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IP. The instance 'Web-Server' with ID 'i-04b7cce20d06f8dfe' is shown in a 'Terminated' state, using the 't2.nano' instance type. Above the table, there are buttons for 'Connect', 'Instance state', 'Actions', and 'Launch instances'. Below the table, the details for the selected instance 'i-04b7cce20d06f8dfe (Web-Server)' are shown. The details are organized into tabs: 'Details', 'Security', 'Networking', 'Storage', 'Status checks', 'Monitoring', and 'Tags'. The 'Details' tab is active, showing a summary of the instance's configuration, including its ID, IP addresses, hostname type, and instance type.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
Web-Server	i-04b7cce20d06f8dfe	Terminated	t2.nano	-	No alarms	us-east-1a	-

Instance: i-04b7cce20d06f8dfe (Web-Server)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-04b7cce20d06f8dfe (Web-Server)	-	-

IPv6 address	Instance state	Public IPv4 DNS
-	Shutting-down	-

Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name:	ip-10-0-1-250.ec2.internal	-

Answer private resource DNS name	Instance type	Elastic IP addresses
IPv4 (A)	t2.nano	-