

CLOUD COMPUTING LAB – 1

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Introduction to Amazon EC2

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

The screenshot displays the AWS Management Console interface during the 'Review Instance Launch' step. The console is divided into two main sections: configuration details on the left and a summary on the right.

Configuration Details (Left):

- Metadata response hop limit:** Set to 1.
- Allow tags in metadata:** Set to Disable.
- User data:** A text area containing the following 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
```
- ☐ User data has already been base64 encoded

Summary (Right):

- Number of instances:** 1
- Software Image (AMI):** Amazon Linux 2 Kernel 5.10 AMI...read more (ami-0b5eea76982371e91)
- Virtual server type (instance type):** t2.micro
- Firewall (security group):** New security group
- Storage (volumes):** 1 volume(s) - 8 GiB

At the bottom right, there are two buttons: 'Cancel' and 'Launch instance'.

2. EC2 instance in running state

The screenshot displays the AWS Management Console interface. On the left, the navigation menu includes options like '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', and 'AMI Catalog'. The main content area is titled 'Instances (1/1) Info'. It features a search bar and a table with columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4 DNS. A single instance, 'Web server' with ID 'i-0f11e7f8321630eb0', is listed in a 'Running' state with 't2.micro' type and '2/2 checks passed'. Below the table, the 'Instance: i-0f11e7f8321630eb0 (Web server)' details are shown, including tabs for 'Details', 'Security', 'Networking', 'Storage', 'Status checks', 'Monitoring', and 'Tags'. The 'Status checks' tab is active, showing 'System status checks' and 'Instance status checks', both with 'System reachability check passed' and 'Instance reachability check passed' messages. A 'Report instance status' button is visible. The footer contains a 'Feedback' link, a language selection prompt, and copyright information for Amazon Web Services, Inc. or its affiliates.

3. Web server browser with the message displaying

Hello From Your Web Server!

4. Showing the instance volume resized

The screenshot shows the AWS Management Console interface. At the top, a blue banner indicates a "Requested volume modification for volume vol-064352430881c9613. The volume is being modified." Below this, a message states: "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](#)." The main content area is titled "Volumes (1)" and contains a table with one volume:

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability
Web server	vol-064352430881c9613	gp2	10 GiB	100	-	snap-097c82c...	2023/01/20 08:44 GMT+5:...	us-east-1b

Below the table, there is a section titled "Select a volume above" with a search bar and a "Create volume" button. The left sidebar shows the navigation menu with "Instances" and "Images" expanded. The bottom of the console shows the footer with copyright information and links to Privacy, Terms, and Cookie preferences.

5. EC2 instance in stopped state

The screenshot shows the AWS Management Console interface. At the top, a green banner indicates "Successfully stopped i-0f11e7f8321630eb0". Below this, the "Instances (1/1) Info" section shows a table with one instance:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Web server	i-0f11e7f8321630eb0	Stopped	t2.micro	2/2 checks passed	No alarms	us-east-1b	-

Below the table, the "Instance: i-0f11e7f8321630eb0 (Web server)" details are shown. The "Details" tab is selected, displaying the following information:

- Instance ID: i-0f11e7f8321630eb0 (Web server)
- IPv6 address: -
- Hostname type: -
- Public IPv4 address: 3.88.106.175 | [open address](#)
- Instance state: Stopping
- Private IP DNS name (IPv4 only): -
- Private IPv4 addresses: 10.0.2.23
- Public IPv4 DNS: ec2-3-88-106-175.compute-1.amazonaws.com | [open address](#)

The left sidebar shows the navigation menu with "Instances" and "Images" expanded. The bottom of the console shows the footer with copyright information and links to Privacy, Terms, and Cookie preferences.