

### Assignment 3:

Migrate your instance from One Region to Another Region

Synopsis: I want to move or copy my Amazon Elastic Compute Cloud (Amazon EC2) instance to another subnet, Availability Zone, or virtual private cloud (VPC).

Use the two methods for migrating the instance:

1. Use the AWS Systems Manager automation document AWSSupport-CopyEC2Instance.
2. Manually copy an instance and launch a new instance from the copy.

#### **Method 1:**

- Open the AWS Systems Manager console and navigate to the “Automation” Section.
- Click on the “Create Automation” Button.
- In the “Document” field, select the “AWSSupport-CopyEC2Instance” Document.
- In the Target Section, select the EC2 instance that you want to move or copy.
- In the Parameters section, configure the settings for the new subnet, Availability Zone, or VPC that you want to move or copy the instance to.
- Click on the “Create Automation” button to start the process.
- Monitor the progress of the automation in the “Automation” section of the AWS Systems Manager console.
- Once the automation is completed, you can verify that the instance has been moved or copied to the desired subnet, Availability Zone, or VPC by checking the instance’s details in the EC2 console.

The screenshot shows the AWS Management Console search results for 'ec2'. The search bar at the top contains 'ec2'. The results are categorized under 'Services' and 'Features'.

**Services**

- EC2** Virtual Servers in the Cloud
- EC2 Image Builder** A managed service to automate build, customize and deploy OS images
- Amazon Inspector** Continual vulnerability management at scale
- AWS Firewall Manager** Central management of firewall rules

**Features**

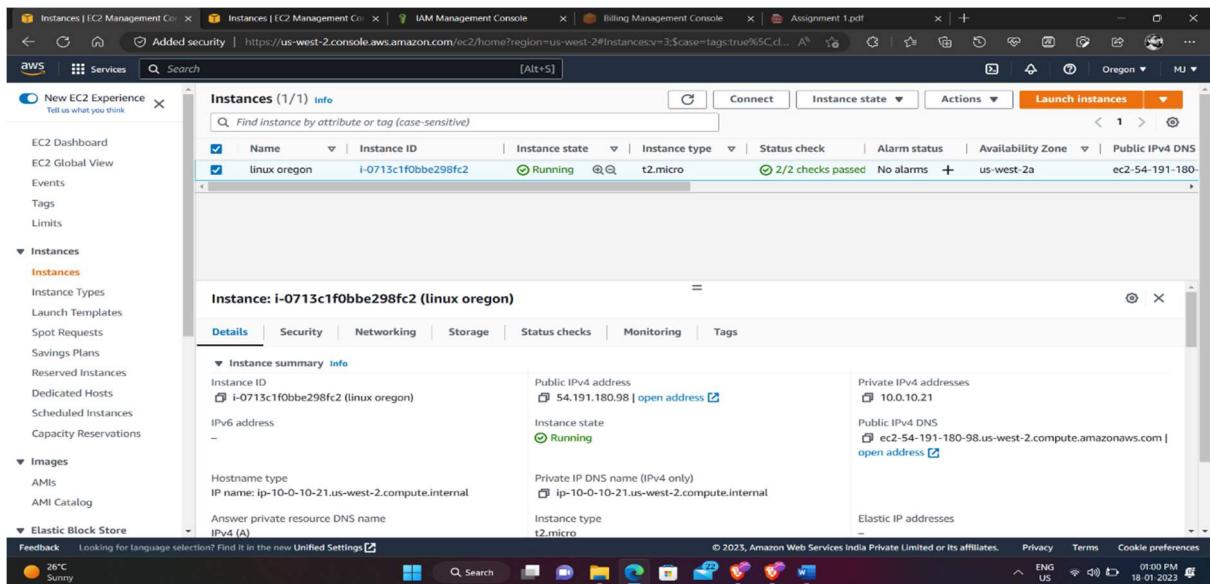
- Dashboard**
- EC2 feature**

On the right side, there is a sidebar titled 'AWS' with sections like 'Started with AWS', 'Learn and certification', and 'New with AWS?'. The status bar at the bottom indicates it's 12:57 PM on 18-01-2023.

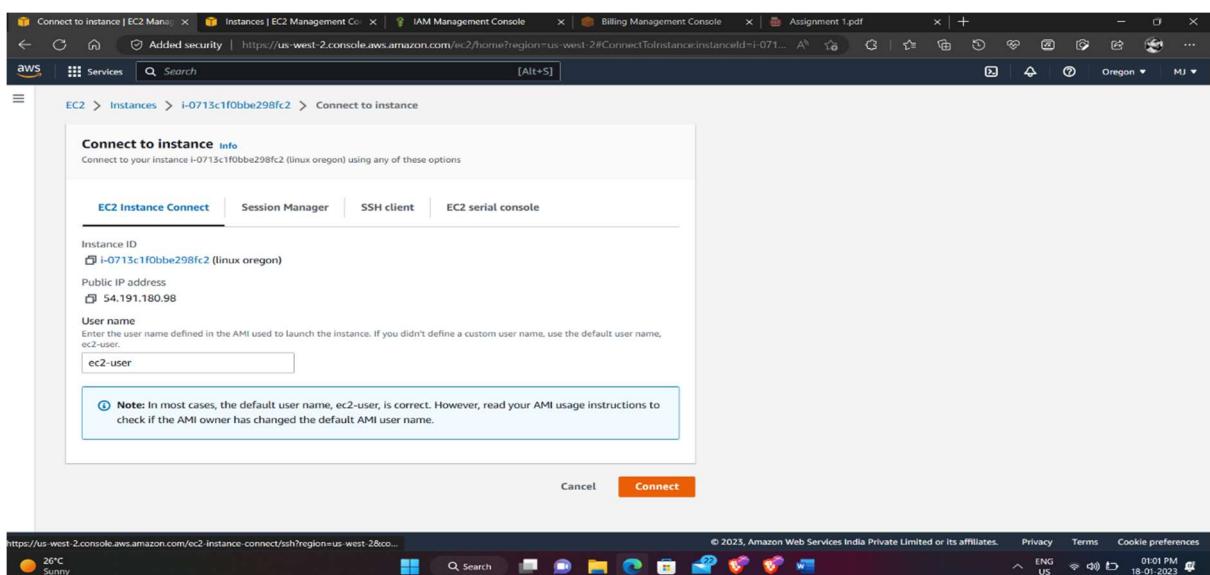
The screenshot shows the EC2 Management console. On the left, there is a navigation sidebar with options like 'EC2 Dashboard', 'Instances', 'Images', and 'Elastic Block Store'. The main area displays 'Resources' for the US West (Oregon) Region, showing counts for Instances (running), Dedicated Hosts, Elastic IPs, Instances, Key pairs, Load balancers, Placement groups, Security groups, Snapshots, and Volumes. To the right, there is a 'Account attributes' section and an 'Explore AWS' section.

The screenshot shows the 'Launch an instance' wizard. It starts with a 'Launch an instance' step, followed by 'Name and tags' where 'linux oregon' is entered. Then it moves to 'Application and OS Images (Amazon Machine Image)', where a search bar and a 'Quick Start' section are visible. Finally, it reaches the 'Summary' step, which includes fields for 'Number of instances' (set to 1), 'Software Image (AMI)' (Amazon Linux 2 Kernel 5.10 AMI...), 'Virtual server type (instance type)' (t2.micro), 'Firewall (security group)' (New security group), and 'Storage (volumes)' (1 volume(s) - 8 GiB). A note about the free tier is displayed on the right. At the bottom, there are 'Cancel' and 'Launch instance' buttons.

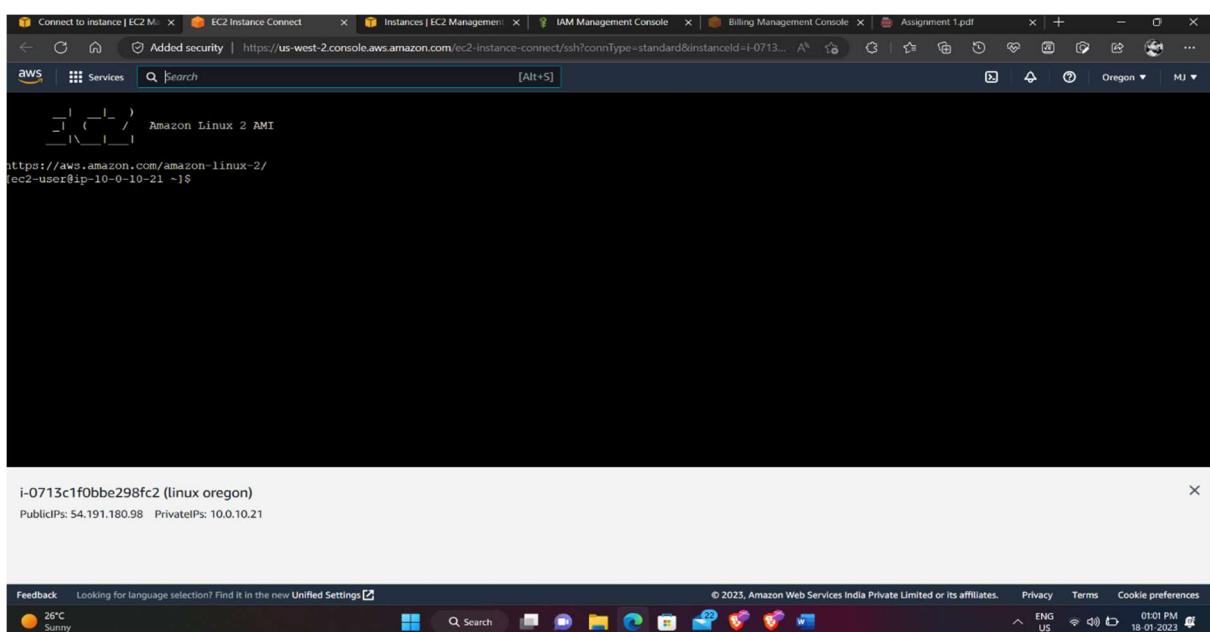
Screenshot of the AWS EC2 Management Console showing the Instances (1/1) page. A single instance named "linux oregon" is listed, showing it is running and assigned to the t2.micro instance type. The Public IPv4 DNS is ec2-54-191-180-98.us-west-2.compute.amazonaws.com.



Screenshot of the AWS EC2 Management Console showing the Connect to instance page for the instance i-0713c1f0bbe298fc2. The "EC2 Instance Connect" tab is selected, displaying the instance ID (i-0713c1f0bbe298fc2), public IP address (54.191.180.98), and user name (ec2-user). A note states: "Note: In most cases, the default user name, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name."



Screenshot of the AWS EC2 Management Console showing the EC2 Instance Connect terminal session for the instance i-0713c1f0bbe298fc2. The session shows a command-line interface with the prompt "ec2-user@ip-10-0-10-21 ~\$". The output of the "ls" command is shown, listing files like ".aws", ".aws-ssh", "Amazon Linux 2 AMI", and "index.html".



The screenshot shows a search results page for 'aws systems' on the AWS console. The left sidebar includes links for Connect to instance, EC2 Instances, Instance ID i-0715..., Public IP address 54.191..., User name ec2-user, and Notifications. The main content area displays a list of services and features under the 'Services' category. The top result is 'Incident Manager' (Automated incident response plans in AWS Systems Manager). Other visible items include 'Systems Manager' (AWS Systems Manager is a Central Place to View and Manage AWS Resources), 'Security Lake' (Automatically centralize all your security data with a few clicks), and 'AWS Private Certificate Authority' (Managed private certificate authority service). A separate section for 'Features' lists 'Distributor' (Systems Manager feature).

The screenshot shows the AWS Systems Manager home page. The left sidebar contains navigation links for Quick Setup, Operations Management (Explorer, OpsCenter, CloudWatch Dashboard, Incident Manager), Application Management (Application Manager, AppConfig, Parameter Store), Change Management (Change Manager, Automation, Change Calendar, Maintenance Windows), and Node Management (Fleet Manager, Compliance). The main content area features a large heading 'AWS Systems Manager' with the subtext 'Gain Operational Insight and Take Action on AWS Resources.' Below this is a 'Get Started with Systems Manager' button and a brief description: 'View operational data for groups of resources, so you can quickly identify and act on any issues that might impact applications that use those resources.' A 'How it works' section illustrates three main functions: 'Group your resources' (represented by icons of a folder and a database), 'View insights' (represented by a dashboard icon), and 'Take action' (represented by a laptop icon). A 'More resources' sidebar provides links to Documentation and API reference.

The screenshot shows the details of an automation document named 'AWSupport-CopyEC2Instance'. The top navigation bar includes links for Connect to instance, AWS Systems Manager, EC2 Instance Connect, Instances, IAM Management, Billing Management, Assignment 1.pdf, and a feedback link. The main content area shows the document's details: Document name 'AWSupport-CopyEC2Instance', Owner 'Amazon', Platform types 'Windows, Linux, MacOS', and Document version 'Default version at runtime'. A 'Document description' section is partially visible. The bottom of the screen shows the standard Windows taskbar with various pinned icons.

**SecurityGroups:**

- Type: String
- Description: (Optional) A comma-separated list of security group IDs you want to associate with the copied instance (e.g. sg-xxxxxx, sg-yyyyyy). If you do not specify a value for this parameter, and the instance is not being copied to a different Region, the security groups associated with the source instance are used. If you're copying the instance to a different Region, the default security group for the default VPC in the destination Region is used.
- AllowedPattern: ^\$|^sg-[0-9a-f]{8,17}\$

**KeepImageSourceRegion:**

- Type: Boolean
- Description: (Optional) If you specify true for this parameter, the automation does not delete the AMI that is copied to the Region you specified. If you specify false for this parameter, the automation deregisters the AMI and deletes the associated snapshots.
- Default: true

**KeepImageDestinationRegion:**

- Type: Boolean
- Description: (Optional) If you specify true for this parameter, the automation does not delete the AMI that is copied to the Region you specified. If you specify false for this parameter, the automation deregisters the AMI and deletes the associated snapshots.
- Default: true

**NoRebootInstanceBeforeTakingImage:**

- Type: Boolean
- Description: (Optional) If you specify true for this parameter, the source instance will not be restarted before creating the AMI. When this option is used, file system integrity on the created image can't be guaranteed.
- Default: false

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**Instanceld** (Required) The ID of the instance that you want to copy (e.g. i-abcd1234567890).

Show interactive instance picker

Show managed instances only ▾

Show managed instances only

Show all instances

Name	Instance ID	State	Availability zone	Platform
There are no managed instances in this account.				

We recommend using Quick Setup to configure your instances for Systems Manager.

After configuring your instances for Systems Manager, the instances will be displayed here in a few minutes.

**AutomationAssumeRole** (Optional) The Amazon Resource Name (ARN) of the AWS Identity and Access Management (IAM) role that allows Systems Manager Automation to perform the actions on your behalf. If no role is specified, Systems Manager Automation uses the permissions of the user that starts this runbook.

**Region** (Optional) The Region you want to copy the Instance to. If you specify a value for this parameter, but do not specify values for the SubnetId and SecurityGroups parameters, the automation attempts to launch the instance in the default VPC with the default security group. If EC2-Classic is enabled in the destination Region, the launch will fail.

**InstanceType** (Optional) The instance type the copied instance should be launched as. If you do not specify a value for this parameter, the source instance type is used. If the source instance type is not supported in the Region the instance is being copied to, the automation fails.

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**Instanceld** (Required) The ID of the instance that you want to copy (e.g. i-abcd1234567890).

Show interactive instance picker

Show all instances ▾

Name	Instance ID	Instance Type	State	Availability zone	IAM Instance Profile Name	Platform
linux oregon	i-0713c1f0bbe298fc2	t2.micro	running	us-west-2a	-	-

Some automation actions only work with managed instances. If the runbook you use contains one of these actions, and you target an instance that is not managed by Systems Manager, the automation fails.

**AutomationAssumeRole** (Optional) The Amazon Resource Name (ARN) of the AWS Identity and Access Management (IAM) role that allows Systems Manager Automation to perform the actions on your behalf. If no role is specified, Systems Manager Automation uses the permissions of the user that starts this runbook.

**Region** (Optional) The Region you want to copy the Instance to. If you specify a value for this parameter, but do not specify values for the SubnetId and SecurityGroups parameters, the automation attempts to launch the instance in the default VPC with the default security group. If EC2-Classic is enabled in the destination Region, the launch will fail.

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**Instances | EC2 Manager** | **AWS Systems Manager** | **EC2 Instance Connect** | **EC2 Management Console** | **IAM Management Console** | **Billing Management Console** | **Assignment 1.pdf**

Added security | https://us-west-2.console.aws.amazon.com/systems-manager/automation/execute?region=us-west-2

Services Search [Alt+S]

linux oregon i-0713c1f0bbe298fc2 t2.micro running us-west-2a - -

i-0713c1f0bbe298fc2 X

⚠ Some automation actions only work with managed instances. If the runbook you use contains one of these actions, and you target an instance that is not managed by Systems Manager, the automation fails.

**AutomationAssumeRole**  
(Optional) The Amazon Resource Name (ARN) of the AWS Identity and Access Management (IAM) role that allows Systems Manager Automation to perform the actions on your behalf. If no role is specified, Systems Manager Automation uses the permissions of the user that starts this runbook.  
Choose IAMRole

**Region**  
(Optional) The Region you want to copy the instance to. If you specify a value for this parameter, but do not specify values for the SubnetId and SecurityGroupIds parameters, the automation attempts to launch the instance in the default VPC with the default security group. If EC2-Classic is enabled in the destination Region, the launch will fail.  
ap-south-1

**InstanceType**  
(Optional) The Instance type the copied instance should be launched as. If you do not specify a value for this parameter, the source instance type is used. If the source instance type is not supported in the Region the instance is being copied to, the automation fails.  
t2.micro

**KeepImageSourceRegion**

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KeyPair  
(Optional) The key pair you want to associate with the new copied instance. If you're copying the instance to a different Region, make sure the key pair exists in the specified Region.  
AWS-Mumbai

SubnetId  
(Optional) The ID of the subnet you want to copy the instance to. If EC2-Classic is enabled in the destination Region, you must provide a value for this parameter.  
subnet-07fe01df07b591fb7

SecurityGroupIds  
(Optional) A comma-separated list of security group IDs you want to associate with the copied instance (e.g. sg-xxxxxx, sg-yyyyyy). If you do not specify a value for this parameter, and the instance is not being copied to a different Region, the security groups associated with the source instance are used. If you're copying the instance to a different Region, the default security group for the default VPC in the destination Region is used.  
sg-091202cf6726f6f1d

KeepImageDestinationRegion

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**Instances | EC2 Manager** | **AWS Systems Manager** | **EC2 Instance Connect** | **EC2 Management Console** | **IAM Management Console** | **Billing Management Console** | **Assignment 1.pdf**

Added security | https://us-west-2.console.aws.amazon.com/systems-manager/automation/execute?region=us-west-2

Services Search [Alt+S]

This option is used for system integrity on the created image. Can't be guaranteed.  
false

**CloudWatch alarm - optional**  
Control your automation by adding a CloudWatch alarm. If the alarm activates while the automation is running, the automation stops.

**Alarm name**  
The name of the CloudWatch alarm that you want to apply to this automation. Create CloudWatch alarm [?]  
Choose alarm

Continue automation if alarm status is unavailable  
If automation is unable to retrieve information about the state of your CloudWatch alarm, the automation continues to run.

**Tags - optional**  
You can use tags to group and filter your automation executions. A tag consists of a case-sensitive key-value pair. Max: 5  
Edit

Key	Value
You still have no tags here	

**▶ AWS CLI command and shareable execution link**

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Cancel Previous Execute

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**Instances | EC2 Manager** | **AWS Systems Manager** | **EC2 Instance Connect** | **EC2 Management Console** | **IAM Management Console** | **Billing Management Console** | **Assignment 1.pdf**

Added security | https://us-west-2.console.aws.amazon.com/systems-manager/automation/execution/d9990d43-792c-46ef-b599-b0a16a11246d

Services Search [Alt+S]

Execution has been initiated.

AWS Systems Manager > Automation > Execution ID: d9990d43-792c-46ef-b599-b0a16a11246d

Execution detail: AWSSupport-CopyEC2Instance

Execution description

Outputs

Execution status

Overall status	All executed steps	# Succeeded
In Progress	0	0
# Failed	# Cancelled	# TimedOut
0	0	0

Executed steps (17)

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Instances | EC2 Manager AWS Services Search [Alt+S] Oregon MJ

Overall status	All executed steps	# Succeeded
<span>Success</span>	12	12
# Failed	# Cancelled	# TimedOut
0	0	0

### Executed steps (17)

Step ID	Step #	Step name	Action	Status	Start time	End time
2c23c840-11a3-4e08-9c94-e5b25f636dce	1	describeOriginalInstanceDetails	aws:executeAwsApi	<span>Success</span>	Wed, 18 Jan 2023 07:39:29 GMT	Wed, 18 Jan 2023 07:39:29 GMT
7a74b4c-fc09-4ec5-aaa4-4a50b05fd5	2	assertRootVolumeIsEbs	aws:assertAwsResourceProperty	<span>Success</span>	Wed, 18 Jan 2023 07:39:29 GMT	Wed, 18 Jan 2023 07:39:50 GMT
a701ba1-7db6-45b5-849e-8c247b96680f	3	evalInputParameters	aws:executeScript	<span>Success</span>	Wed, 18 Jan 2023 07:39:30 GMT	Wed, 18 Jan 2023 07:39:45 GMT
c6241533-053d-46e1-8db3-511950e05136	4	createLocalAmi	aws:createImage	<span>Success</span>	Wed, 18 Jan 2023 07:39:43 GMT	Wed, 18 Jan 2023 07:43:07 GMT
cb159c75-b2e6-4c60-b510-7f9f6ed6aba	5	tagLocalAmi	aws:createTags	<span>Success</span>	Wed, 18 Jan 2023 07:43:07 GMT	Wed, 18 Jan 2023 07:43:07 GMT
4a2f1500-55c-441d-800d-95f2191e568	6	branchAssertRegionIsSame	aws:branch	<span>Success</span>	Wed, 18 Jan 2023 07:43:07 GMT	Wed, 18 Jan 2023 07:43:07 GMT
8caed2be-e2fa-4175-94b7-8c80c43b6ac	7	copyAmiToRegion	aws:executeScript	<span>Success</span>	Wed, 18 Jan 2023 07:43:08 GMT	Wed, 18 Jan 2023 07:43:21 GMT
e7b6f79-a777-40b8-bbcd-13143d091bc2	8	waitForAvailableDestinationAmi	aws:executeScript	<span>Success</span>	Wed, 18 Jan 2023 07:43:21 GMT	Wed, 18 Jan 2023 07:48:56 GMT
c111846e-70ad-481a-b655-95d282ed55a9	9	destinationRegionLaunchInstance	aws:executeScript	<span>Success</span>	Wed, 18 Jan 2023 07:48:37 GMT	Wed, 18 Jan 2023 07:48:50 GMT
0e577843-61df-4597-84b8-e0d54541fc1a	10	branchAssertDestinationAmiToDelete	aws:branch	<span>Success</span>	Wed, 18 Jan 2023 07:48:50 GMT	Wed, 18 Jan 2023 07:48:50 GMT

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Instances | EC2 Manager AWS Systems Manager EC2 Instance Connect Instances | EC2 Manager IAM Management Con Billing Management C Assignment 1.pdf Oregon MJ

Step ID	Step #	Step name	Action	Status	Start time	End time
2c23c840-11a3-4e08-9c94-e5b25f636dce	1	describeOriginalInstanceDetails	aws:executeAwsApi	<span>Success</span>	Wed, 18 Jan 2023 07:39:29 GMT	Wed, 18 Jan 2023 07:39:29 GMT
7a74b4c-fc09-4ec5-aaa4-4a50b05fd5	2	assertRootVolumeIsEbs	aws:assertAwsResourceProperty	<span>Success</span>	Wed, 18 Jan 2023 07:39:29 GMT	Wed, 18 Jan 2023 07:39:50 GMT
a701ba1-7db6-45b5-849e-8c247b96680f	3	evalInputParameters	aws:executeScript	<span>Success</span>	Wed, 18 Jan 2023 07:39:30 GMT	Wed, 18 Jan 2023 07:39:45 GMT
c6241533-053d-46e1-8db3-511950e05136	4	createLocalAmi	aws:createImage	<span>Success</span>	Wed, 18 Jan 2023 07:39:43 GMT	Wed, 18 Jan 2023 07:43:07 GMT
cb159c75-b2e6-4c60-b510-7f9f6ed6aba	5	tagLocalAmi	aws:createTags	<span>Success</span>	Wed, 18 Jan 2023 07:43:07 GMT	Wed, 18 Jan 2023 07:43:07 GMT
4a2f1500-55c-441d-800d-95f2191e568	6	branchAssertRegionIsSame	aws:branch	<span>Success</span>	Wed, 18 Jan 2023 07:43:07 GMT	Wed, 18 Jan 2023 07:43:07 GMT
8caed2be-e2fa-4175-94b7-8c80c43b6ac	7	copyAmiToRegion	aws:executeScript	<span>Success</span>	Wed, 18 Jan 2023 07:43:08 GMT	Wed, 18 Jan 2023 07:43:21 GMT
e7b6f79-a777-40b8-bbcd-13143d091bc2	8	waitForAvailableDestinationAmi	aws:executeScript	<span>Success</span>	Wed, 18 Jan 2023 07:43:21 GMT	Wed, 18 Jan 2023 07:48:56 GMT
c111846e-70ad-481a-b655-95d282ed55a9	9	destinationRegionLaunchInstance	aws:executeScript	<span>Success</span>	Wed, 18 Jan 2023 07:48:37 GMT	Wed, 18 Jan 2023 07:48:50 GMT
0e577843-61df-4597-84b8-e0d54541fc1a	10	branchAssertDestinationAmiToDelete	aws:branch	<span>Success</span>	Wed, 18 Jan 2023 07:48:50 GMT	Wed, 18 Jan 2023 07:48:50 GMT

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Instances | EC2 Manager AWS Systems Manager EC2 Instance Connect Instances | EC2 Manager IAM Management Con Billing Management C Assignment 1.pdf Oregon MJ

Step ID	Step #	Step name	Action	Status	Start time	End time
a298de14-8ae5-4076-9aac-b5d7417bc954	11	branchAssertSourceAmiToDelete	aws:branch	<span>Success</span>	Wed, 18 Jan 2023 07:48:50 GMT	Wed, 18 Jan 2023 07:48:51 GMT
ea06fc0-9b48-4b56-af8f-e2776deb76ad	12	sleep	aws:sleep	<span>Success</span>	Wed, 18 Jan 2023 07:48:51 GMT	Wed, 18 Jan 2023 07:48:53 GMT
b7e63412-b457-4db4-bf96-fb76cc7e2e97	13	branchAssertSameRegionWithKeyPair	aws:branch	<span>Pending</span>	-	-
4a990c64-98ba-4b1b-88a6-c22854b52fa	14	sameRegionLaunchInstanceWithKeyPair	aws:runInstances	<span>Pending</span>	-	-
db57e12f-3114-42d8-8e25-72f1cd78692	15	sameRegionLaunchInstanceWithoutKeyPair	aws:runInstances	<span>Pending</span>	-	-
7aa36cfc-b196-4139-b76e-9418edc5195b	16	deregisterDestinationAmiAndDeleteSnapshots	aws:executeScript	<span>Pending</span>	-	-
6110b3d1-5b2e-41e3-9471-3db176a18ea4	17	deregisterSourceAmiAndDeleteSnapshots	aws:deleteImage	<span>Pending</span>	-	-

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**Amazon Machine Images (AMIs) (1/1)**

Name	AMI ID	AMI name	Source	Owner	Visibility
AWSSupport-...	ami-01ee8ad329f56d22c	AWSSupport-CopyEC2Instance ...	846780726677/AWSSupport-CopyEC2I...	846780726677	Private

**AMI ID: ami-01ee8ad329f56d22c (AWSSupport-CopyEC2Instance LocalAmi for i-0713c1f0bbe298fc2)**

Details	Permissions	Storage	Tags
AMI ID ami-01ee8ad329f56d22c (AWSSupport-CopyEC2Instance LocalAmi for i-0713c1f0bbe298fc2)	Image type machine	Platform details Linux/UNIX	Root device type EBS
AMI name AWSSupport-CopyEC2Instance LocalAmi for i-0713c1f0bbe298fc2_2023-01-18_07.39.45	Owner account ID 846780726677	Architecture x86_64	Usage operation RunInstances
Root device name /dev/xvda	Status Available	Source 846780726677/AWSSupport-CopyEC2Instance LocalAmi for i-0713c1f0bbe298fc2_2023-01-18_07.39.43	Virtualization type hvm

**Volumes (1)**

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Available
-	vol-0a7786b2bdca46418	gp2	8 GiB	100	-	snap-0759447...	2023/01/18 12:58 GMT+5:...	us-w

Select a volume above

**Snapshots (1/1)**

Name	Snapshot ID	Size	Description	Storage...	Snapshot status	Started
-	snap-00ea03a62232e3a81	8 GiB	Created by CreateImage(i-0713c1f0bbe298fc2) for ami-01ee8ad329f56d22c	Standard	Completed	2023/01/18 13:11 GMT+5:...

**Snapshot ID: snap-00ea03a62232e3a81**

Details	Permissions	Storage tier	Tags
Snapshot ID snap-00ea03a62232e3a81	Size 8 GiB	Progress Available (100%)	Snapshot status Completed
Owner 846780726677	Volume ID vol-0a7786b2bdca46418	Started Wed Jan 18 2023 13:11:14 GMT+0530 (India Standard Time)	Product codes
Encryption Not encrypted	KMS key ID -	KMS key alias -	KMS key ARN -
Fast snapshot restore -	Description Created by CreateImage(i-0713c1f0bbe298fc2) for ami-01ee8ad329f56d22c		

Screenshots | EC2 Manager | AWS Systems Manager | EC2 Instance Connect | Instances | EC2 Manager | IAM Management Console | Billing Management Console | Assignment 1.pdf

New EC Experience Tell us what you think

Instances (1/1) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
AWSSupport...	i-06e59bd8d2d1b373d	Running	t2.micro	Initializing	No alarms	ap-south-1a	ec2-65-1-64-0.ap...

Instance: i-06e59bd8d2d1b373d (AWSSupport-CopyEC2Instance Source: i-0713c1f0bbe298fc2)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID i-06e59bd8d2d1b373d (AWSSupport-CopyEC2Instance Source: i-0713c1f0bbe298fc2)	Public IPv4 address 65.1.64.0   open address	Private IPv4 addresses 172.31.45.202
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-65-1-64-0.ap-south-1.compute.amazonaws.com   open address
Hostname type ID name: i-06e59bd8d2d1b373d.ap-south-1.compute.internal	Private IP DNS name (IPv4 only) i-06e59bd8d2d1b373d.ap-south-1.compute.internal	

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Waiting for ap-south-1.console.aws.amazon.com...

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Snapshots | EC2 Manager | AWS Systems Manager | EC2 Instance Connect | Images | EC2 Manager | IAM Management Console | Billing Management Console | Assignment 1.pdf

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Amazon Machine Images (AMIs) (1) Info

Owned by me Find AMI by attribute or tag

Name	AMI ID	AMI name	Source	Owner	Visibility
-	ami-06c05a69dc1fd8573	AMI Copied from ami-01ee8ad3...	846780726677/AMI Copied from ami-0...	846780726677	Private

Select an AMI

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Snapshots | EC2 Manager | AWS Systems Manager | EC2 Instance Connect | Images | EC2 Manager | IAM Management Console | Billing Management Console | Assignment 1.pdf

New EC Experience Tell us what you think

Amazon Machine Images (AMIs) (1/1) Info

Owned by me Find AMI by attribute or tag

Name	AMI ID	AMI name	Source	Owner	Visibility
-	ami-06c05a69dc1fd8573	AMI Copied from ami-01ee8ad3...	846780726677/AMI Copied from ami-0...	846780726677	Private

AMI ID: ami-06c05a69dc1fd8573

Details Permissions Storage Tags

AMI ID ami-06c05a69dc1fd8573	Image type machine	Platform details Linux/UNIX	Root device type EBS
AMI name AMI Copied from ami-01ee8ad3...	Owner account ID 846780726677	Architecture x86_64	Usage operation RunInstances
Root device name /dev/xvda	Status Available	Source 846780726677/AMI Copied from ami-01ee8ad3...	Virtualization type hvm

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The screenshot shows the AWS EC2 Volumes page. On the left, there's a navigation sidebar with links like Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store (with Volumes and Snapshots), Network & Security (with Security Groups, Elastic IPs, Placement Groups, Key Pairs, and Network Interfaces), and Load Balancing. The main content area displays a table titled "Volumes (1)". The table has columns for Name, Volume ID, Type, Size, IOPS, Throughput, Snapshot, Created, and Available. A single row is present with the following details:

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Available
-	vol-0b5238d814db75a2d	gp2	8 GiB	100	-	snap-0c0390b...	2023/01/18 13:18 GMT+5:...	ap-sou...

Below the table, a message says "Select a volume above". The bottom of the screen shows the AWS navigation bar and a taskbar.

The screenshot shows the AWS EC2 Snapshots page. The left sidebar is identical to the previous screenshot. The main content area displays a table titled "Snapshots (1/1)". The table has columns for Owned by me, Name, Snapshot ID, Size, Description, Storage tier, Snapshot status, and Started. A single row is present with the following details:

Owned by me	Name	Snapshot ID	Size	Description	Storage tier	Snapshot status	Started
✓	-	snap-0c0390bc2c268427d	8 GiB	Copied for DestinationAmi ...	Standard	Completed	2023/01/18 13:13 GMT+5:...

Below the table, a message says "Snapshot ID: snap-0c0390bc2c268427d". The bottom of the screen shows the AWS navigation bar and a taskbar.

The screenshot shows the AWS EC2 Instances page. The left sidebar is identical to the previous screenshots. The main content area displays a table titled "Instances (1/1) Info". The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4 DNS. A single row is present with the following details:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
AWSsupport-...	i-06e59bd8d2d1b373d	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a	ec2-65-1-64-0.ap...

Below the table, a message says "Instance: i-06e59bd8d2d1b373d (AWSSupport-CopyEC2Instance Source: i-0713c1f0bbe298fc2)". The bottom of the screen shows the AWS navigation bar and a taskbar.

EC2 > Instances > i-06e59bd8d2d1b373d > Connect to instance

**Connect to instance** Info

Connect to your instance i-06e59bd8d2d1b373d (AWSSupport-CopyEC2Instance Source: i-0713c1f0bbe298fc2) using any of these options

**EC2 Instance Connect** Session Manager SSH client EC2 serial console

Instance ID **i-06e59bd8d2d1b373d** (AWSSupport-CopyEC2Instance Source: i-0713c1f0bbe298fc2)

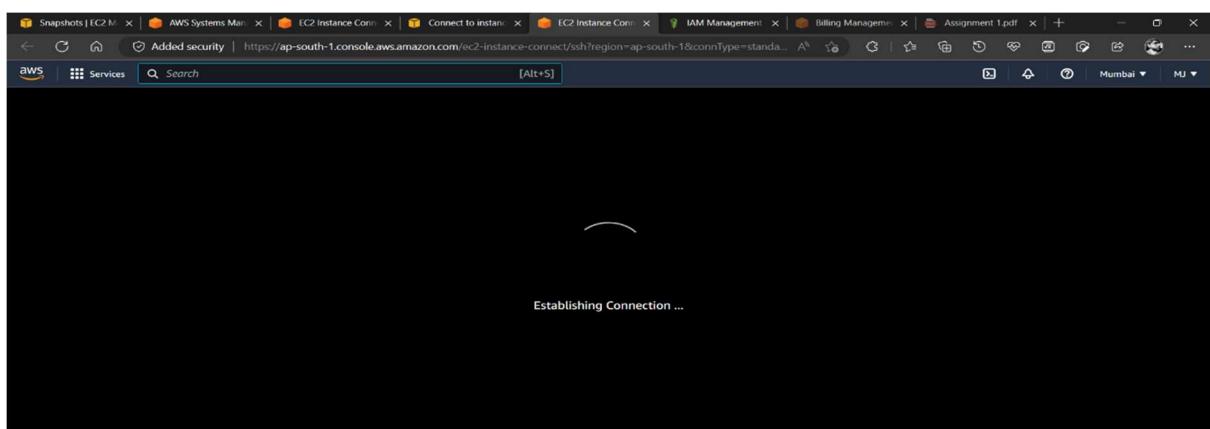
Public IP address **65.1.64.0**

User name **root**  
Enter the user name defined in the AMI used to launch the instance. If you didn't define a custom user name, use the default user name, root.

**Note:** In most cases, the default user name, root, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel **Connect**

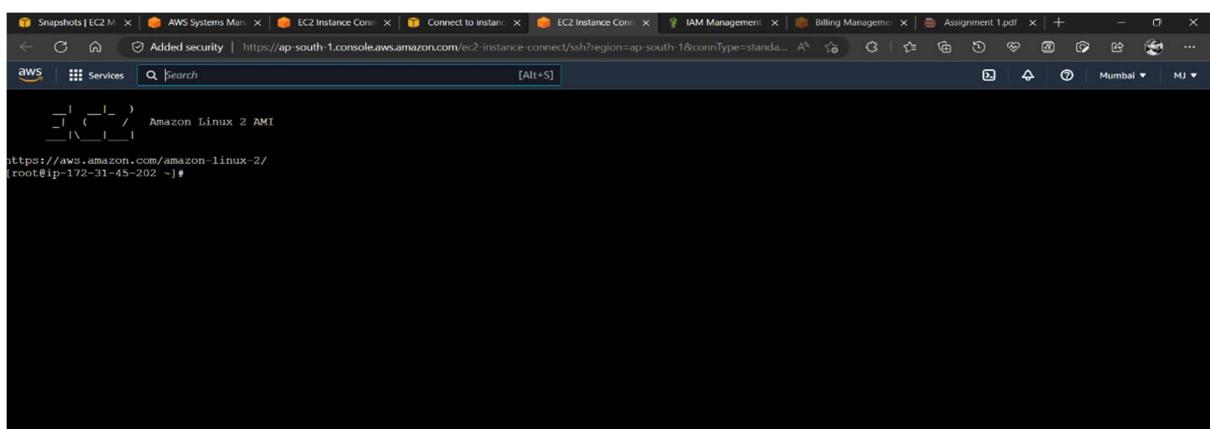
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-06e59bd8d2d1b373d&user=root&sshPort=22 Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences



i-06e59bd8d2d1b373d (AWSSupport-CopyEC2Instance Source: i-0713c1f0bbe298fc2)

Public IPs: 65.1.64.0 Private IPs: 172.31.45.202

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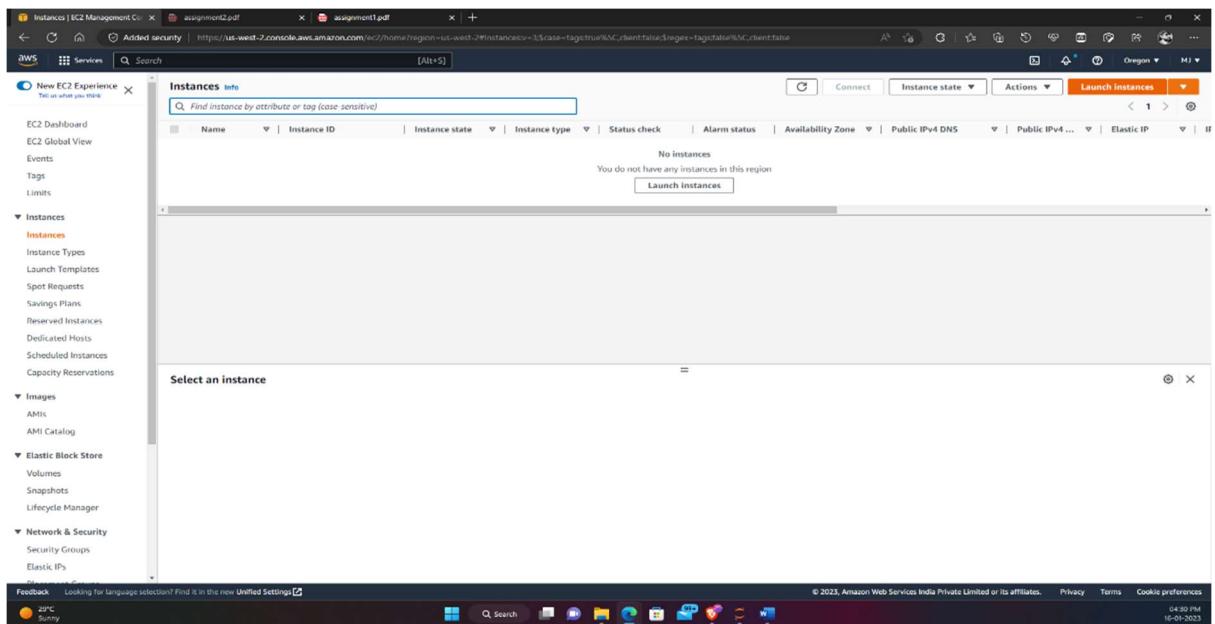
i-06e59bd8d2d1b373d (AWSSupport-CopyEC2Instance Source: i-0713c1f0bbe298fc2)

Public IPs: 65.1.64.0 Private IPs: 172.31.45.202

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## **Method 2:**

- Go to EC2 dashboard.
- Launch an instance (here windows AMI).
- Connect to the instance to check whether it is running properly or not.
- Once verified, select the created instance go to Actions -> Image and templates and select Create Image.
- Wait for some time, the backup of the instance will be created.
- You can find the backup by going to Images -> AMI.
- For manually copying/migrating the instance from one region to another region, select the backup AMI, in the navigation bar select Actions -> Copy AMI.
- You will be directed to Copy AMI page. Here you must select the desired ‘Destination Region’ and click on ‘Copy AMI’.
- Then go the region which you had selected and check in ‘AMI’. Here you will be able to find the backup whose status is ‘Pending’.
- Wait for some time to get the AMI in the destination region. Once the status becomes ‘Available’, select the instance, and tap on ‘Launch instance from AMI’.



**Launch an instance | EC2 Manager** assignment2.pdf assignment1.pdf

Type Info: rdp Protocol Info: TCP Port range Info: 2389

Source type: Anywhere Source Info: Description - optional info: e.g. SSH for admin desktop

Rules of source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Add security group rule Advanced network configuration

Configure storage Info: Advanced 1x 30 GiB gp2 Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

D x File systems Edit

Advanced details Info

Summary Number of instances: 1

Software Image (AMI): Microsoft Windows Server 2022 ...read more ami-0da2ffef774e308b99

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 30 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Region where t2.micro is not available) instance usage at free tier AMI price, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch instance

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**Instances | EC2 Management Console** assignment2.pdf assignment1.pdf

New EC2 Experience Try on 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 Network & Security Security Groups Elastic IPs

Instances (1/1) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
win main	i-0e52d76eb8c5fe9e1	Running	t2.micro	2/2 checks passed	No alarms	us-west-2a	ec2-54-201-56-52.us-w...	54.201.56.52	-

Instance: i-0e52d76eb8c5fe9e1 (win main)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID: i-0e52d76eb8c5fe9e1 (win main)  
 Public IPv4 address: 54.201.56.52 [open address]  
 Instance state: Running  
 Private IP DNS name (IPv4 only): ip-10-0-1-154.us-west-2.compute.internal  
 Instance type: t2.micro

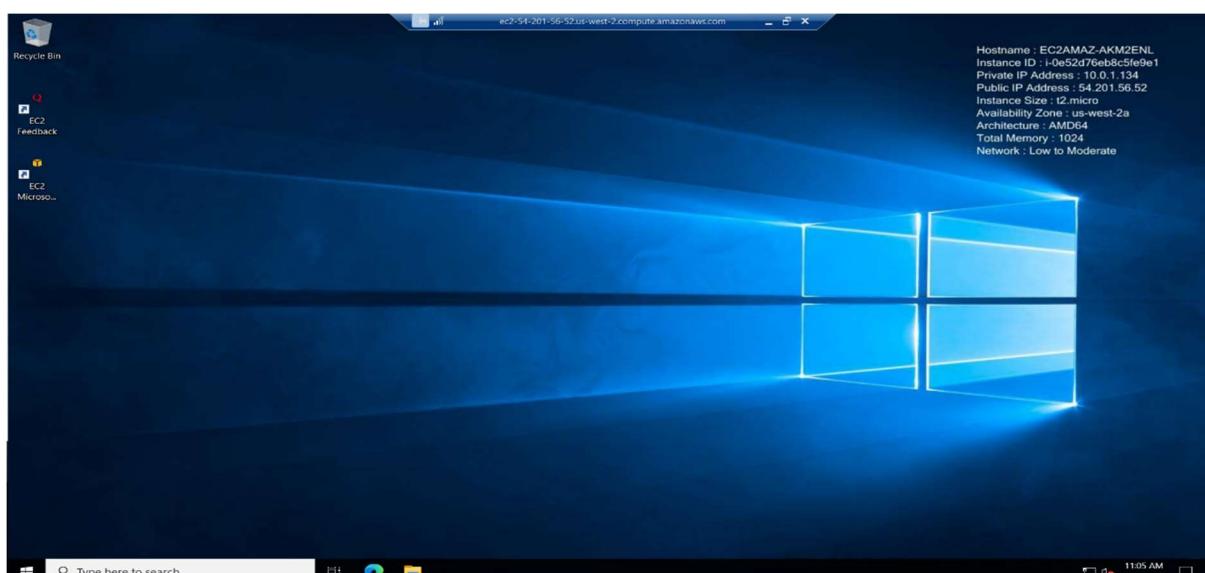
Private IPv4 addresses:  
 10.0.1.154  
 Public IPv4 DNS: ec2-54-201-56-52.us-west-2.compute.amazonaws.com [open address]

Elastic IP addresses:

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Screenshot of the AWS EC2 Management Console showing the Instances page. A search bar at the top contains the query: `assignment2.pdf`. The results table shows one instance named `win main` with the following details:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<code>win main</code>	<code>i-0e52d76eb8c5fe9e1</code>	Running	t2.micro	2/2 checks passed	No alarms	us-west-2a	<code>ec2-54-201-56-52.us-west-2...</code>

Actions dropdown menu options include: Connect, View details, Manage instance state, Instance settings, Networking, Security, Create Image, Create template from instance, Image and templates, and Launch more like this.

Screenshot of the AWS EC2 Management Console showing the Create Image page for the instance `i-0e52d76eb8c5fe9e1 (win main)`.

Form fields:

- Image name: `win backup`
- Image description - optional: `backup`
- No reboot:
- Tags - optional:
  - Tag image and snapshots together: Tag the image and the snapshots with the same tag.
  - Tag image and snapshots separately: Tag the image and the snapshots with different tags.
- Add new tag:

Message: `During the image creation process, Amazon EC2 creates a snapshot of each of the above volumes.`

Buttons: Cancel, Create Image.

Screenshot of the AWS EC2 Management Console showing the Instances page. A message at the top states: `Currently creating AMI ami-084ec8f770d937553 from instance i-0e52d76eb8c5fe9e1. Check that the AMI status is 'Available' before deleting the instance or carrying out other actions related to this AMI.`

The results table shows the same instance `win main` with the following details:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<code>win main</code>	<code>i-0e52d76eb8c5fe9e1</code>	Running	t2.micro	2/2 checks passed	No alarms	us-west-2a	<code>ec2-54-201-56-52.us-west-2...</code>

Actions dropdown menu options include: Connect, View details, Manage instance state, Instance settings, Networking, Security, Create Image, Create template from instance, Image and templates, and Launch more like this.

Snapshots (1)

Name	Snapshot ID	Size	Description	Storage...	Snapshot status	Started	Progress	Encryption	KMS key
snap-0ef5508a4d44dc9bd	30 GiB	Created by CreateImage(...)	Standard	Completed	2023/01/16 16:58 GMT+5...	Available (100%)	Not encrypted		

Select a snapshot above.

**Actions**

- Create snapshot
- Recycle Bin
- Actions

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Amazon Machine Images (AMIs) (1/1) Info

Name	AMI ID	AMI name	Source	Owner	Visibility	Status	Creation date
win backup[ore...	ami-084ec88770d937553	win backup	846780726677/win backup	846780726677	Private	Available	2023/01/16 16:36:46 GMT+0530 (India Standard Time)

**AMI ID: ami-084ec88770d937553 (win backup[oregon])**

**Details**

AMI ID	ami-084ec88770d937553 (win backup[oregon])	Image type	machine	Platform details	Windows	Root device type	EBS
AMI name	win backup	Owner account ID	846780726677	Architecture	x86_64	Usage operation	RunInstances:0002
Root device name	/dev/sda1	Status	Available	Source	846780726677/win backup	Virtualization type	hvm
Boot mode	-	State reason	-	Creation date	Mon Jan 16 2023 16:36:46 GMT+0530 (India Standard Time)	Kernel ID	-
Block devices	/dev/sda1:snap-0ef5508a4d44dc9bd:30:true:gp2	Description	backup	Product codes	-	RAM disk ID	-

**Actions**

- Launch instance from AMI
- EC2 Image Builder
- Recycle Bin
- Actions

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Amazon Machine Images (AMIs) (1/1) Info

Name	AMI ID	AMI name	Source	Owner	Visibility
win backup[ore...	ami-084ec88770d937553	win backup	846780726677/win backup	846780726677	Private

**AMI ID: ami-084ec88770d937553 (win backup[oregon])**

**Details**

AMI ID	ami-084ec88770d937553 (win backup[oregon])	Image type	machine	Platform details	Windows	Root device type	EBS
AMI name	win backup	Owner account ID	846780726677	Architecture	x86_64	Usage operation	RunInstances:0002
Root device name	/dev/sda1	Status	Available	Source	846780726677/win backup	Virtualization type	hvm
Boot mode	-	State reason	-	Creation date	Mon Jan 16 2023 16:36:46 GMT+0530 (India Standard Time)	Kernel ID	-
Block devices	/dev/sda1:snap-0ef5508a4d44dc9bd:30:true:gp2	Description	backup	Product codes	-	RAM disk ID	-

**Actions**

- Launch instance from AMI
- Copy AMI
- Edit AMI permission
- Request Spot Instances
- Manage tags
- Deregister AMI
- Change description
- Manage image optimization
- Manage AMI Deprecation
- Register instance store-backed AMI

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Dashboard | EC2 Management | Instances | EC2 Management | Copy Image | EC2 Management | Snapshots | EC2 Management | Volumes | EC2 Management | assignment2.pdf | assignment1.pdf

**EC2 > AMIs > ami-084ec88770d937553 > Copy AMI**

### Copy AMI info

Create a copy of an Amazon Machine Image in a Region.

**Copy Amazon Machine Image (AMI)**

Original AMI ID: ami-084ec88770d937553 (win backup[oregon])

AMI copy name: win backup

AMI copy description: [Copied ami-084ec88770d937553 (win backup[oregon]) from us-west-2] win backup

Destination Region: A copy of the original AMI will be created in the destination Regions.

Asia Pacific (Mumbai)

Copy tags: Includes your user-defined AMI tags when copying the AMI.

Encrypt EBS snapshots of AMI copy: Encrypts all snapshots in the AMI copy with the same key.

**Cancel** **Copy AMI**



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Instances | EC2 Management | Images | EC2 Management | Snapshots | EC2 Management | Volumes | EC2 Management | assignment2.pdf | assignment1.pdf

**AMI copy operation for ami-084ec88770d937553 initiated**

It can take a few minutes for the AMI to be copied. You can check the progress of the operation in the AMI table in ap-south-1. The AMI ID of the new AMI is ami-07a682c4b2100ddac.

**Amazon Machine Images (AMIs) (1) Info**

Name	AMI ID	AMI name	Source	Owner	Visibility	Status	Creation date
win backup[...]	ami-084ec88770d937553	win backup	846780726677/win backup	846780726677	Private	Available	2023/01/16 16:36 GMT

**Select an AMI**

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Images | EC2 Management | Instances | EC2 Management | Snapshots | EC2 Management | Volumes | EC2 Management | assignment2.pdf | assignment1.pdf

**Amazon Machine Images (AMIs) (1 / 1) Info**

Name	AMI ID	AMI name	Source	Owner	Visibility	Status	Creation date
win backup	ami-07a682c4b2100ddac	win backup	846780726677/win backup	846780726677	Private	Pending	2023/01/16 16:40 GMT

**AMI ID: ami-07a682c4b2100ddac**

**Details** **Permissions** **Storage** **Tags**

AMI ID: ami-07a682c4b2100ddac	Image type: machine	Platform details: Windows	Root device type: EBS
AMI name: win backup	Owner account ID: 846780726677	Architecture: x86_64	Usage operations: RunInstances:D002
Root device name: /dev/xvda1	Status: Pending	Source: 846780726677/win backup	Virtualization type: hvm
Boot mode:	State reason:	Creation date: Mon Jan 16 2023 16:40:58 GMT+0530 (India Standard Time)	Kernel ID: -
Block devices: /dev/sda1=30gp2, /xvda-ephemeral0	Description: [Copied ami-084ec88770d937553 (win backup[oregon]) from us-west-2] win backup	Product codes: -	RAM disk ID: -

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Screenshots showing the creation of an AMI from a snapshot.

The first screenshot shows the "Schemas" page in the AWS Management Console. A new snapshot named "snap-018bb8feb629baed" has been created, showing a progress bar at 0%.

Name	Snapshot ID	Size	Description	Storage...	Snapshot status	Started	Progress	Encryption	KMS key ID
snap-018bb8feb629baed	30 GiB	Copied for DestinationAmi ...	Standard	Pending	2023/01/16 16:40 GMT+5...	Unavailable (0%)	Not encrypted	-	

The second screenshot shows the same "Schemas" page after the snapshot has completed. The progress bar is now at 100%.

Name	Snapshot ID	Size	Description	Storage...	Snapshot status	Started	Progress	Encryption	KMS key ID
snap-018bb8feb629baed	30 GiB	Copied for DestinationAmi ...	Standard	Completed	2023/01/16 16:40 GMT+5...	Available (100%)	Not encrypted	-	

The third screenshot shows the "Amazon Machine Images (AMIs)" page. A new AMI named "ami-07a682c4b2100ddac" has been created, showing a progress bar at 0%.

Name	AMI ID	AMI name	Source	Owner	Visibility	Status	Creation date
win backup	ami-07a682c4b2100ddac	win backup	846780726677/win backup	846780726677	Private	Available	2023/01/16 16:40 GMT+5...

The fourth screenshot shows the same "Amazon Machine Images (AMIs)" page after the AMI has completed. The progress bar is now at 100%.

Name	AMI ID	AMI name	Source	Owner	Visibility	Status	Creation date
win backup	ami-07a682c4b2100ddac	win backup	846780726677/win backup	846780726677	Private	Available	2023/01/16 16:40 GMT+5...

The fifth screenshot shows the "Amazon Machine Images (AMIs)" page. A new AMI named "ami-07a682c4b2100ddac" has been created, showing a progress bar at 0%.

Name	AMI ID	AMI name	Source	Owner	Visibility	Status	Creation date
win backup	ami-07a682c4b2100ddac	win backup	846780726677/win backup	846780726677	Private	Available	2023/01/16 16:40 GMT+5...

The sixth screenshot shows the same "Amazon Machine Images (AMIs)" page after the AMI has completed. The progress bar is now at 100%.

Name	AMI ID	AMI name	Source	Owner	Visibility	Status	Creation date
win backup	ami-07a682c4b2100ddac	win backup	846780726677/win backup	846780726677	Private	Available	2023/01/16 16:40 GMT+5...

**Amazon Machine Images (AMIs) (1/1) Info**

Name	AMI ID	AMI name	Source	Owner	Visibility	Status	Creation date
-	ami-07a682c4b2100ddac	win backup	846780726677/win backup	846780726677	Private	Available	2023/01/16 16:40 GMT

**AMI ID: ami-07a682c4b2100ddac**

**Details** **Permissions** **Storage** **Tags**

**AMI ID:** ami-07a682c4b2100ddac **Image type:** machine **Platform details:** Windows **Boot device type:** EBS  
**AMI name:** win backup **Owner account ID:** 846780726677 **Architecture:** x86\_64 **Usage operation:** RunInstances:0002  
**Root device name:** /dev/xda1 **Status:** Available **Source:** 846780726677/win backup **Virtualization type:** hvm  
**Boot mode:** - **State reason:** - **Creation date:** Mon Jan 16 2023 16:40:58 GMT+0530 (India Standard Time) **Kernel ID:** -  
**Block devices:** /dev/xda1=nap:018bb8feb629haeed:30:true:gp2 **Description:** [Copied ami-084ec88770d937553 (win backup[oregon]) from us-west-2] win backup **Product codes:** - **RAM disk ID:** -  
**Feedback:** Looking for language selection? Find it in the new Unified Settings

**Launch an instance | EC2 Management Console | Subnets | VPC Management Console | Snapshots | EC2 Management Console | VPC Management Console**

**Type Info** **Protocol Info** **Port range Info**

**Source type:** rdp **Protocol:** TCP **Port range:** 3389

**Source type info:** Anywhere **Source info:** Add CIDR, prefix list or security group **Description - optional info:** e.g. SSH for admin desktop

**Rules:** Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

**Add security group rule** **Advanced network configuration**

**Configure storage** **Advanced**

**Root volume (Not encrypted):** 1x 30 GiB gp2 **Free tier eligible customers can get up to 50 GB of EBS General Purpose (SSD) or Magnetic storage:** Add new volume

**Selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance:** O **O X**

**O X File systems** **Edit**

**Advanced details** **Info**

**Summary**

**Number of instances:** 1

**Software Image (AMI):** [Copied ami-084ec88770d937553 ...read more ami-07a682c4b2100ddac]

**Virtual server type (instance type):** t2.micro

**Firewall (security group):** New security group

**Storage (volumes):** 1 volume(s) - 30 GiB

**Free tier in your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.**

**Cancel** **Launch instance**

**Feedback:** Looking for language selection? Find it in the new Unified Settings

**Instances | EC2 Management Console | Subnets | VPC Management Console | Snapshots | EC2 Management Console | VPC Management Console**

**Instances (1/1) Info**

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
win backup	i-09e91075915ffe462	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a	ec2-43-205-207-100.ap...	43.205.207.100	-

**Instance: i-09e91075915ffe462 (win backup)**

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

**Instance summary:** **Info**

**Instance ID:** i-09e91075915ffe462 (win backup) **Public IPv4 address:** 43.205.207.100 **Open address:** [Open](#)

**IPv6 address:** - **Instance state:** Running **Private IP DNS name (IPv4 only):** ip-172-31-44-128.ap-south-1.compute.internal

**Hostname type:** IP Name: ip-172-31-44-128.ap-south-1.compute.internal **Instance type:** t2.micro

**Answer private resource DNS name:** IPv4 (A) **VPC ID:** vpc-0af44c8154f5cb36d

**Auto-assigned IP address:** 43.205.207.100 **Elastic IP addresses:** 172.31.44.128

**Feedback:** Looking for language selection? Find it in the new Unified Settings

