

## Test Role

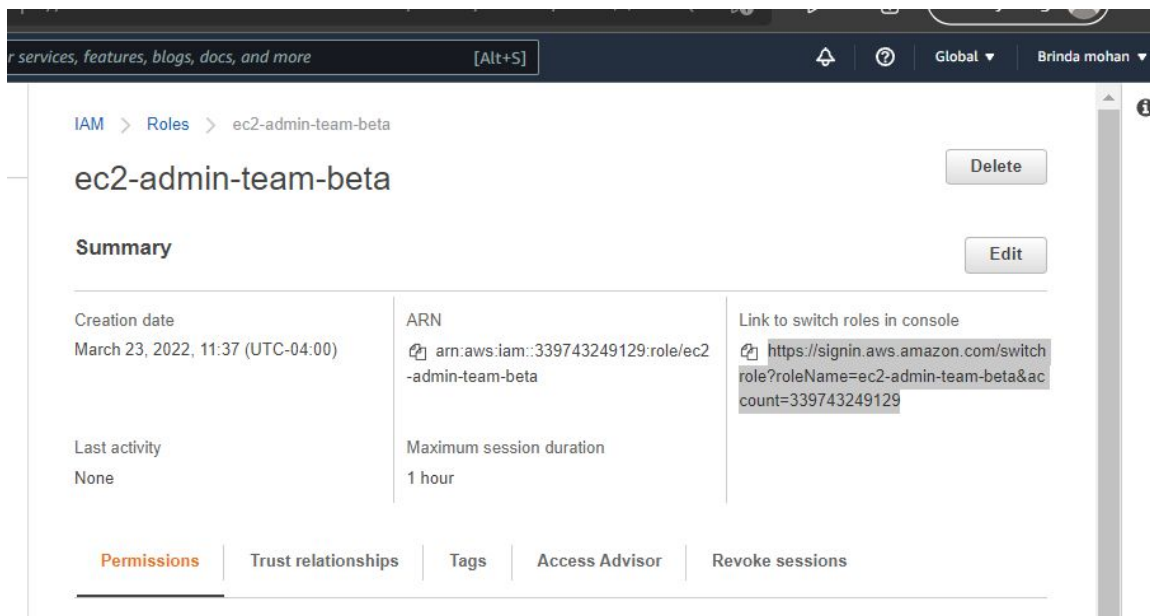
### 3.1 Assume ec2-admin-team-beta Role

Use an existing IAM user with MFA enabled to assume the new ec2-admin-team-beta role.

Sign in to the AWS Management Console as an IAM user with MFA enabled.

<https://console.aws.amazon.com> .

In the console, click your user name on the navigation bar in the upper right. It typically looks like this: username@account\_ID\_number\_or\_alias then click Switch Role. Alternatively you can paste the link in your browser that was recorded earlier when the roles were created.



On the Switch Role page, type your account ID number in the Account field, and the name of the role ec2-admin-team-beta that you created in the previous step in the Role field. (Optional) Type text that you want to appear on the navigation bar in place of your user name when this role is active.

## Switch role

Switching roles enables you to manage resources across Amazon Web Services accounts using a single user. When you switch roles, you temporarily take on the permissions assigned to the new role. When you exit the role, you give up those permissions and get your original permissions back. [Learn more.](#)

Switch Role

## Switch Role

Allows management of resources across Amazon Web Services accounts using a single user ID and password. You can switch roles after an Amazon Web Services administrator has configured a role and given you the account and role details. [Learn more.](#)

You cannot switch roles when you are signed in with AWS account credentials.

Account\*  ⓘ

Role\*  ⓘ

Display Name  ⓘ

Color a a a a a a

\*Required

[Cancel](#)

[Switch Role](#)

Click Switch Role. If this is the first time choosing this option, a page appears with more information. After reading it, click Switch Role. If you clear your browser cookies, this page can appear again.

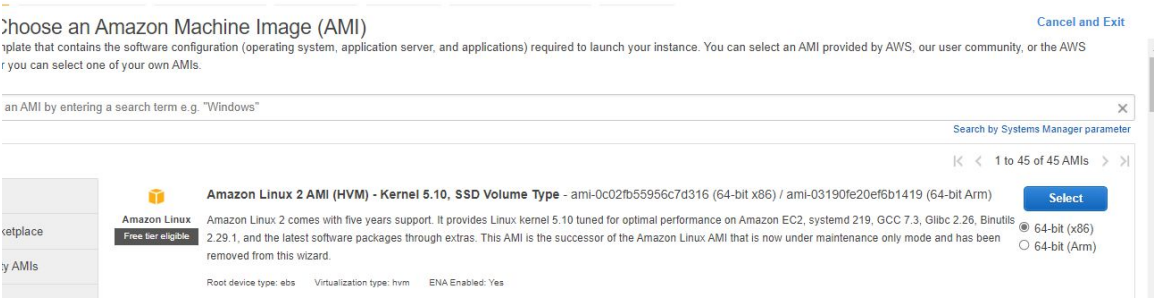
### 3.2 Launch Instance With & Without Tags

Navigate to the EC2 Management Console in the us-east-2 (Ohio) region  
<https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2>

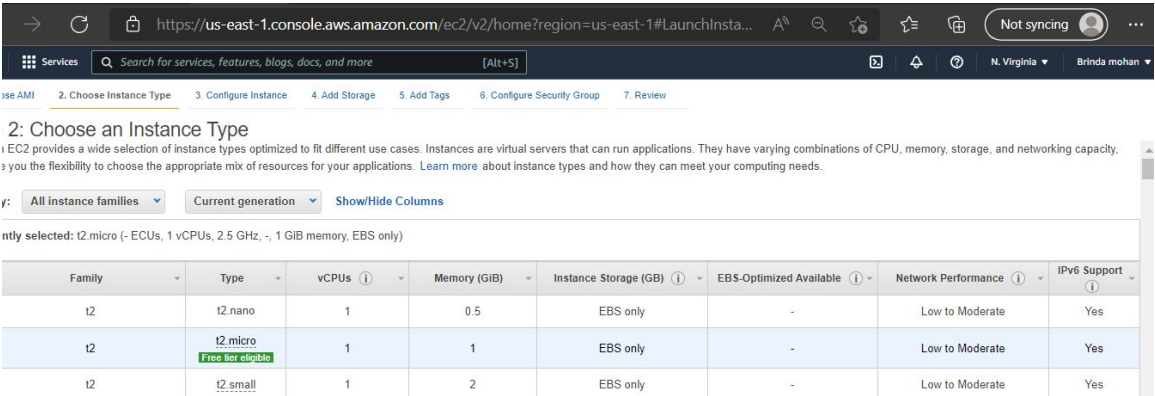
The screenshot shows the AWS Management Console for the EC2 service in the us-east-1 (N. Virginia) region. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, and Volumes. The main content area is divided into several sections: Resources (showing counts for Instances (running), Elastic IPs, Key pairs, Placement groups, Snapshots, Dedicated Hosts, Instances, Load balancers, Security groups, and Volumes), Launch instance (with a 'Launch instance' button and a 'Migrate a server' link), Service health (showing the status of the service in the US East (N. Virginia) region as 'operating normally'), Account attributes (showing supported platforms, default VPC, settings, zones, and console experiments), and Explore AWS (with links to save up to 45% on ML inference and 10 things you can do today to reduce AWS costs).

Click Launch Instance button to start the wizard.

Click Select next to the first Amazon Linux 2 Amazon Machine Image to launch.



Accept the default instance size by clicking Next: Configure Instance Details.



Accept default details by clicking Next: Add Storage.

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances  Launch into Auto Scaling Group

Purchasing option ☐ Request Spot instances

Network  Create new VPC

Subnet  Create new subnet

Auto-assign Public IP

Hostname type

DNS Hostname ☐ Enable IP name IPv4 (A record) DNS requests  
☒ Enable resource-based IPv4 (A record) DNS requests  
☐ Enable resource-based IPv6 (AAAA record) DNS requests

Placement group ☐ Add instance to placement group

Capacity Reservation

Domain join directory  Create new directory

IAM role  Create new IAM role

Shutdown behavior

Stop - Hibernate behavior ☐ Enable hibernation as an additional stop behavior

Enable termination protection ☐ Protect against accidental termination

Monitoring ☐ Enable CloudWatch detailed monitoring  
 Additional charges apply.

Cancel Previous **Review and Launch** Next: Add Storage

Accept default storage options by clicking Next: Add Tags.

Step 4: Add Storage

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.

| Volume Type | Device    | Snapshot               | Size (GiB)                     | Volume Type               | IOPS       | Throughput (MB/s) | Delete on Termination               | Encryption    |
|-------------|-----------|------------------------|--------------------------------|---------------------------|------------|-------------------|-------------------------------------|---------------|
| Root        | /dev/xvda | snap-0c1ac78aec1c4204c | <input type="text" value="8"/> | General Purpose SSD (gp2) | 100 / 3000 | N/A               | <input checked="" type="checkbox"/> | Not Encrypted |

[Add New Volume](#)

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.

Lets add an incorrect tag now that will fail to launch. Click Add Tag enter Key of Name and Value of Example. Repeat to add Key of Team and Value of Beta. Note:

Keys and values are case sensitive!

Click Next: Configure Security Group.

Click Select an existing security group, click the check box next to security group with name default, then click Review and Launch.

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 5: Add Tags

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.

| Key  | Value | Instances                           | Volumes                             | Network Interfaces                  |
|------|-------|-------------------------------------|-------------------------------------|-------------------------------------|
| team | beta  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Add another tag (Up to 50 tags maximum)

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 6: Configure Security Group

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.

Assign a security group: ☐ Create a new security group ☒ Select an existing security group

| Security Group ID    | Name    | Description                | Actions                     |
|----------------------|---------|----------------------------|-----------------------------|
| sg-0a73755f701eb93cd | default | default VPC security group | <a href="#">Copy to new</a> |

Inbound rules for sg-0a73755f701eb93cd (Selected security groups: sg-0a73755f701eb93cd)

| Type        | Protocol | Port Range | Source                         | Description |
|-------------|----------|------------|--------------------------------|-------------|
| All traffic | All      | All        | sg-0a73755f701eb93cd (default) |             |

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 7: Review Instance Launch

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.

#### AMI Details

**Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type - ami-0c02fb5956c7d316**

Free tier eligible

Amazon Linux 2 comes with five years support. It provides Linux kernel 5.10 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 n...

Root Device Type: ebs Virtualization type: hvm

#### Instance Type

| Instance Type | ECUs | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance |
|---------------|------|-------|--------------|-----------------------|-------------------------|---------------------|
| t2.micro      | -    | 1     | 1            | EBS only              | -                       | Low to Moderate     |

#### Security Groups

| Security Group ID    | Name    | Description                |
|----------------------|---------|----------------------------|
| sg-0a73755f701eb93cd | default | default VPC security group |

All selected security groups inbound rules

| Type        | Protocol | Port Range | Source                         | Description |
|-------------|----------|------------|--------------------------------|-------------|
| All traffic | All      | All        | sg-0a73755f701eb93cd (default) |             |

#### Instance Details

#### Storage

click Launch then click the option to Proceed without a key pair.

Select the I acknowledge box then click Launch Instances.



Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance. Amazon EC2 supports ED25519 and RSA key pair types.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Proceed without a key pair

☒ I acknowledge that without a key pair, I can connect to this instance only by using EC2 Instance Connect or if I know the password built into the AMI. Note that EC2 Instance Connect is only supported on Amazon Linux 2 and Ubuntu. [Learn more](#).

Cancel

Launch Instances

You should see a message that the instance is now launching. Click View Instances and do not terminate it just yet.

aws

Services

Search for services, features, blogs, docs, and more

[Alt+S]

N. Virginia

Brinda mohan

Launch Status

Your instances are now launching

The following instance launches have been initiated: [i-0180ffc2b7fc7d8c4](#) [View launch log](#)

Get notified of estimated charges

Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can connect to them from the Instances screen. [Find out](#) how to connect to your instances.

Here are some helpful resources to get you started

How to connect to your Linux instance

Learn about AWS Free Usage Tier

Amazon EC2: User Guide

Amazon EC2: Discussion Forum

While your instances are launching you can also

Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)

Create and attach additional EBS volumes (Additional charges may apply)

Manage security groups

View Instances




### 3.3 Modify Tags On Instances

Continuing from 3.2 in the EC2 Management Console instances view, click the check box next to the instance named Example then the Tags tab.

Click Add/Edit Tags, try changing the Team key to a value of Test then click Save. An error message should appear.

Search for services, features, blogs, docs, and more




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Tags > Manage

Add tags to your resources to simplify the administration of your EC2 infrastructure. Select resources from the grid below and use the controls below the grid to apply a new tag or remove an existing tag. You can add up to 10 unique keys to each resource with an optional value for each key. Tag keys and values are case-sensitive.

Filter: Instances ▾

| Resource ID   | team |
|---|------|
| <input checked="" type="checkbox"/> i-0180ffc2b7fc7d8c4 | beta |

Add Tag

Key

Value


Add Tag

OR

Remove Tag

Key

Remove Tag

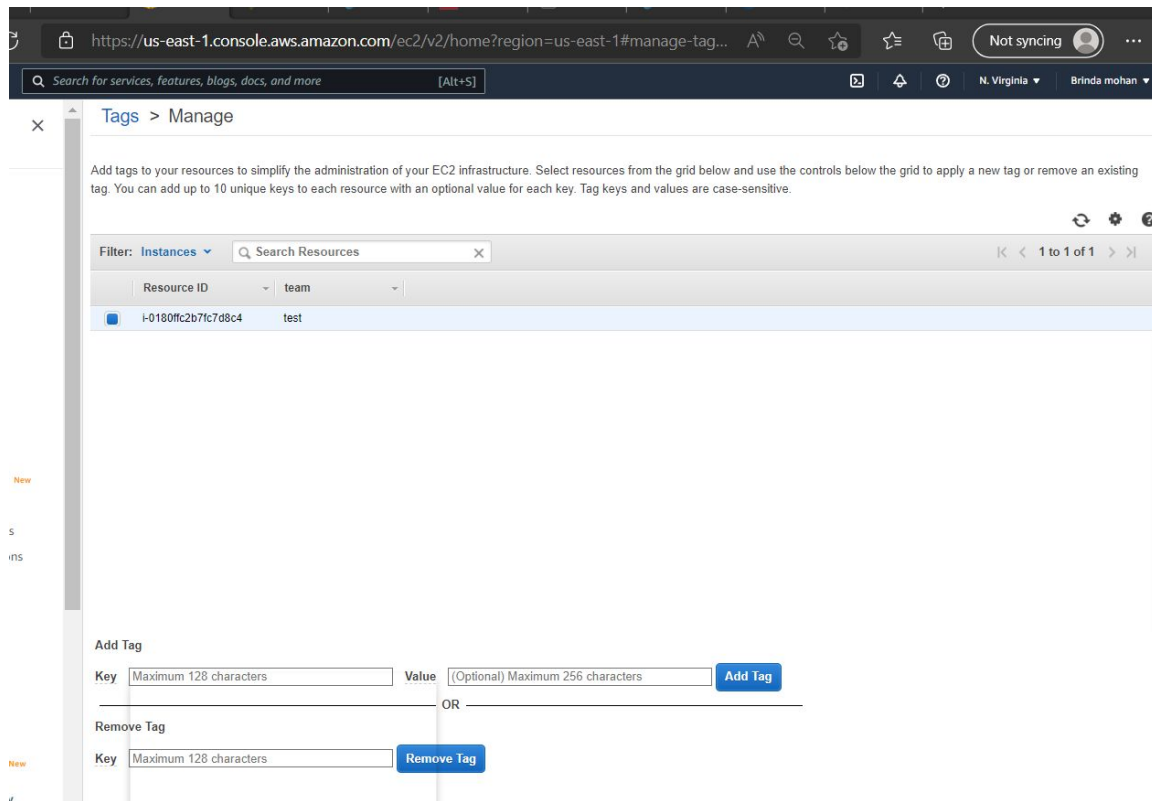
Overwrite Tags 

Warning: the following resources already have tags with key "team". Applying this tag will overwrite the existing tags as tag keys are unique for each resource.

- i-0180ffc2b7fc7d8c4 (Current value: beta)

Cancel 

Continue



Change the Team key back to Alpha, and edit the Name key to a value of Test and click Save. The request should succeed.

### 3.4 Manage Instances

Continuing from 3.3 in the EC2 Management Console instances view, click the check box next to the instance named Test. Click Actions button then expand out Instance State then Terminate. Check the instance is the one you wish to terminate by it's name and click Yes, Terminate. The instance should now terminate.



