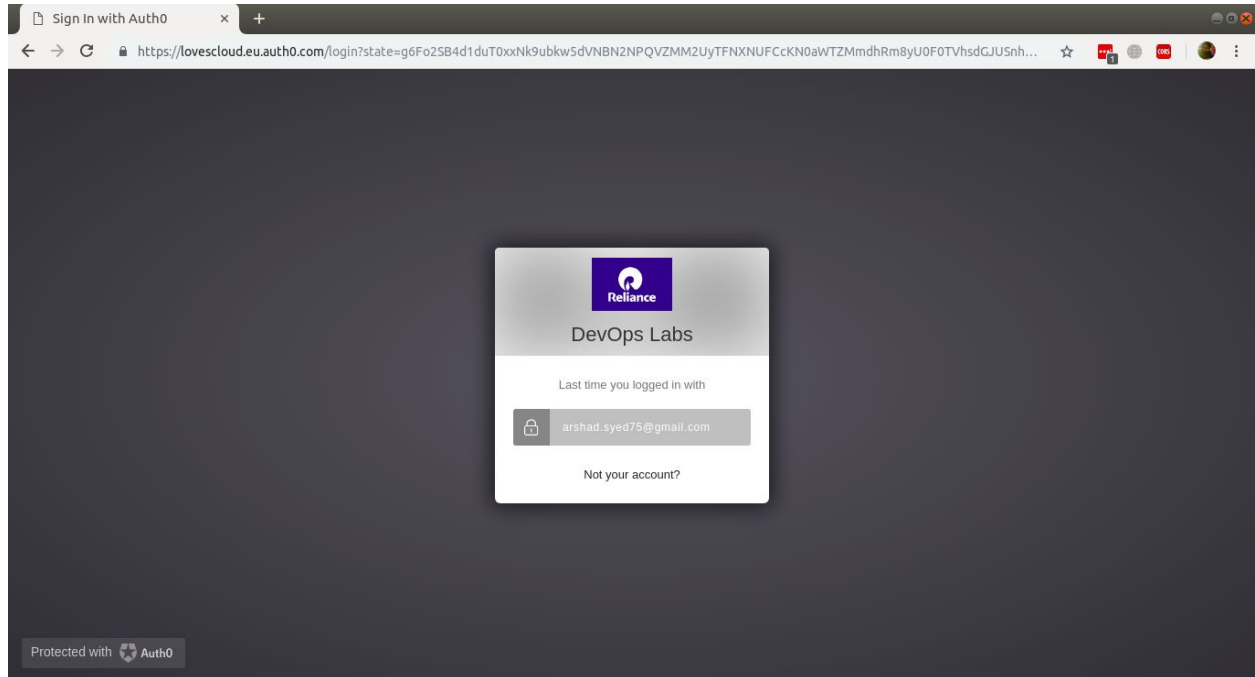


To login to the AWS account please browse to the below URL

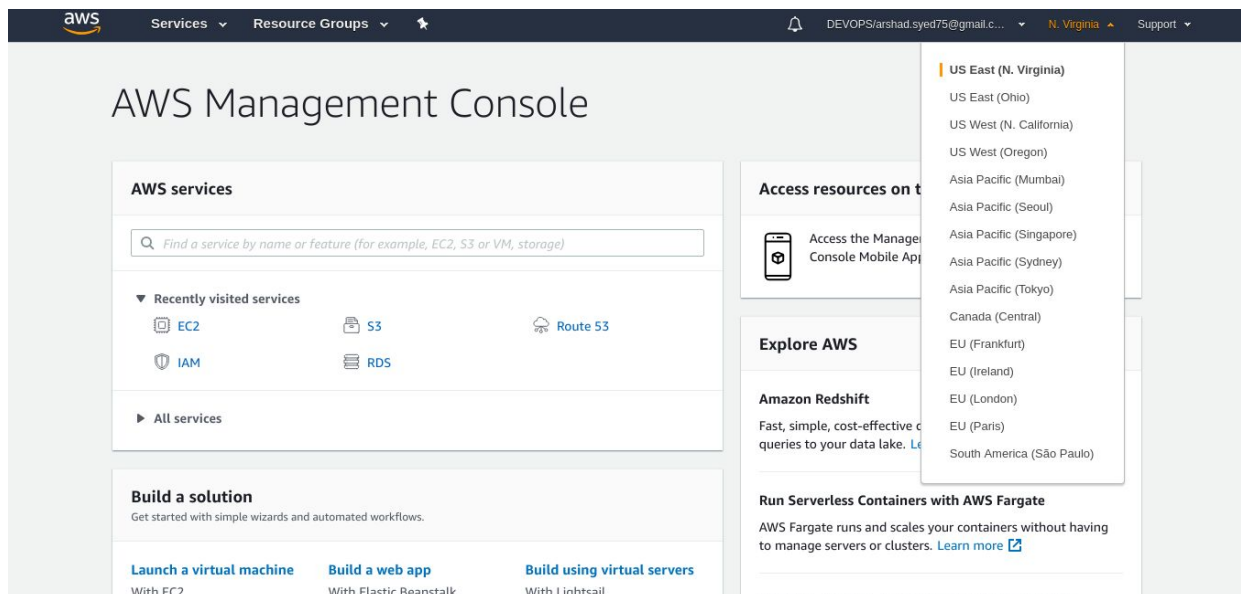
<https://bit.ly/2nhKGAQ>

Signup with your **email account** and you will be redirected to AWS Console as shown below

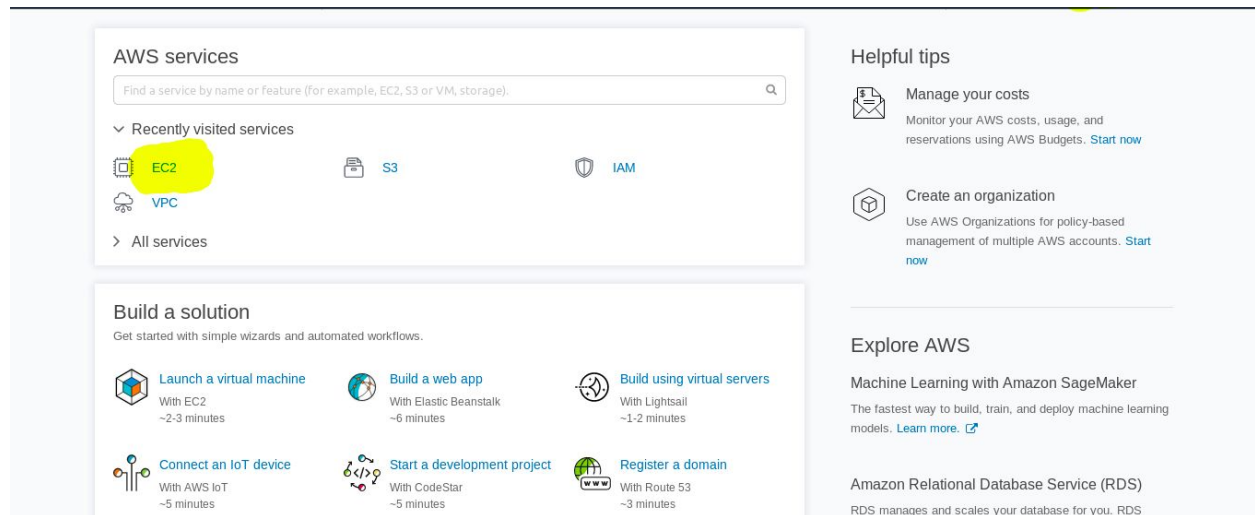


Make sure that you are in **N.Virginia** region

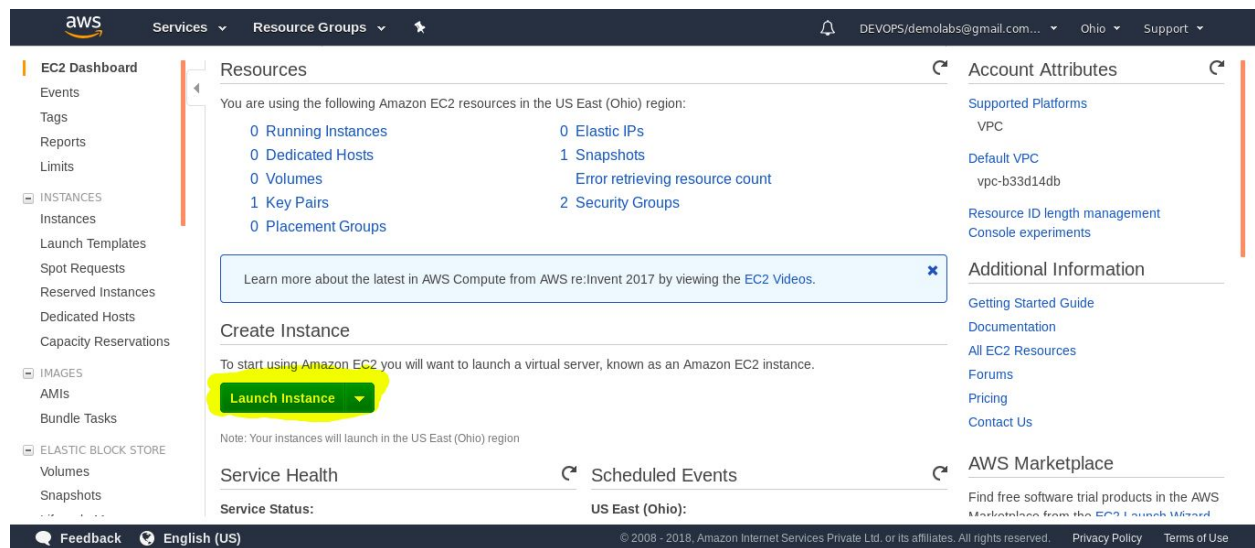
If you have been redirected to Ohio region please update the region to N.Virginia from the dropdown from the top right as shown below.



Now click on **EC2** ( Elastic Compute Cloud).



On the **EC2 Dashboard** click on **Launch Instance** as shown above.



## Under My AMIs select Golden-AMI-RIL (26 Nov for Reliance Training)

**Step 1: Choose an Amazon Machine Image (AMI)**

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows"

Quick Start

My AMIs

AWS Marketplace

Community AMIs

Ownership

Owned by me

Shared with me

Architecture

32-bit (x86)

DevOps-AMI - ami-0270a53450f25c66d

DevOps29--Sep-2018

Root device type: ebs Virtualization type: hvm Owner: 057180412549 ENA Enabled: Yes

Golden-AMI-RIL - ami-0970b1247c19c5a18

Creted on 26 Nov for Reliance Training

Root device type: ebs Virtualization type: hvm Owner: 057180412549 ENA Enabled: Yes

1 to 2 of 2 AMIs

## Now, select the General purpose t2.micro as the Instance Type and Click on Next: Configure Instance Details

**Step 2: Choose an Instance Type**

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.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

Feedback English (US)

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## Leave all the Fields as default and click on **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: 1 [Launch into Auto Scaling Group](#)

Purchasing option: ☐ Request Spot instances

Network: vpc-033514db (default) [Create new VPC](#)

Subnet: No preference (default subnet in any Availability Zone) [Create new subnet](#)

Auto-assign Public IP: Use subnet setting (default)

Placement group: ☐ Add instance to placement group

Capacity Reservation: Open [Create new Capacity Reservation](#)

IAM role: None [Create new IAM role](#)

Shutdown behavior: Stop

Enable termination protection: ☐ Protect against accidental termination

Monitoring: ☐ Enable CloudWatch detailed monitoring  
Additional charges apply

Tenancy: Shared - Run a shared hardware instance  
Additional charges will apply for dedicated tenancy

T2/T2 Unlimited: ☐ Enable  
Additional charges may apply

Advanced Details

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

## Size(GiB) of the instance is **30GiB**, Click **Next:Add Tag**

**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	Encrypted
Root	/dev/sda1	snap-0df2a2ef7e82cf1c9	30	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.

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Tags](#)

Under Key type **Name** and a tag name ( ex your name) so that you can identify your instance once it has been launched and then click on **Next: Configure Security Group**

aws

Services

Resource Groups

DEVOPS/demolabs@gmail.com...

Ohio

Support

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
Name	demouser	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Add another tag

(Up to 50 tags maximum)

Cancel

Previous

Review and Launch

Next: Configure Security Group

Feedback

English (US)

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Under **Assign Security Group** : **Select an existing security group** and select the **Golden-AMI** group and then click on **Review and Launch**

aws

Services

Resource Groups

DEVOPS/arshad.syed75@gmail.c...

N. Virginia

Support

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
<input type="checkbox"/> sg-093e126f3af105000	aa-web-sg	aa-web-sg	<a href="#">Copy to new</a>
<input type="checkbox"/> sg-7229e038	default	default VPC security group	<a href="#">Copy to new</a>
<input checked="" type="checkbox"/> sg-090667d993272ca6b	Golden-AMI	launch-wizard-1 created 2018-10-18T12:24:18.080+05:30	<a href="#">Copy to new</a>
<input type="checkbox"/> sg-05d3b95298e8de659	launch-wizard-1	launch-wizard-1 created 2018-10-22T15:18:25.785+05:30	<a href="#">Copy to new</a>

Inbound rules for sg-090667d993272ca6b (Selected security groups: sg-090667d993272ca6b)

Type	Protocol	Port Range	Source	Description
HTTP	TCP	80	0.0.0.0/0	
HTTP	TCP	80	:::0	

Cancel

Previous

Review and Launch

Review the instance details by scrolling the page and click on **Launch** once all the details are verified.

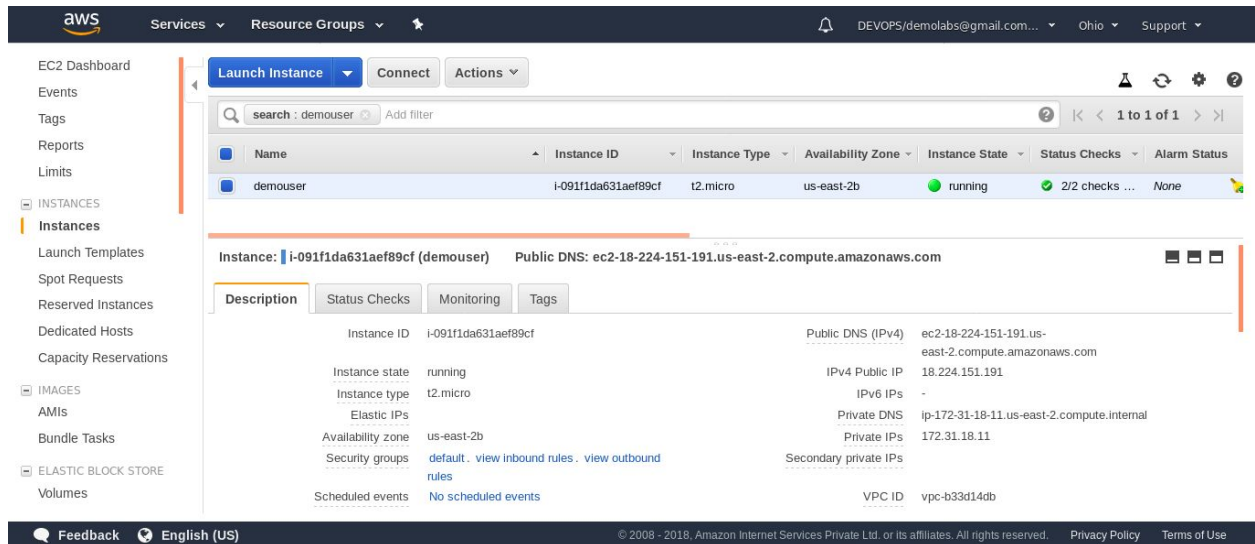
The screenshot shows the AWS Management Console at the 'Review Instance Launch' step. At the top, there's a navigation bar with the AWS logo, 'Services', 'Resource Groups', and a user profile. Below it, a progress bar highlights the current step, '7. Review'. A yellow warning box at the top states: 'Improve your instances' security. Your security group, default, is open to the world. Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. Edit security groups'. Below this, the 'AMI Details' section shows 'DevOps-AMI - ami-0351cfbc0b958e2cd' with a link to 'Edit AMI'. The 'Instance Type' section shows a table with columns: Instance Type, ECUs, vCPUs, Memory (GiB), Instance Storage (GB), EBS-Optimized Available, and Network Performance. The row for 't2.micro' shows 'Variable' ECUs, 1 vCPU, 1 GiB memory, 'EBS only' storage, and 'Low to Moderate' network performance. At the bottom right, there are 'Cancel', 'Previous', and 'Launch' buttons.

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

Select **Choose an existing key pair** and select **GoldenAMI**, acknowledge and click on **Launch Instance**

This screenshot shows the same 'Review Instance Launch' step, but with a modal dialog box open. The dialog is titled 'Select an existing key pair or create a new key pair'. It contains text explaining that a key pair consists of a public key stored by AWS and a private key file stored by the user. It also includes a note: '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.' Below the text, there are two dropdown menus: 'Choose an existing key pair' and 'Select a key pair', both of which have 'GoldenAMI' selected. A checkbox is checked, with the text: 'I acknowledge that I have access to the selected private key file (GoldenAMI.pem), and that without this file, I won't be able to log into my instance.' At the bottom of the dialog are 'Cancel' and 'Launch Instances' buttons. The background shows the same console interface as the previous screenshot, but it is dimmed.

Goto the Ec2 Dashboard and get the details of the instance you just launched.



The screenshot shows the AWS Management Console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a user profile. The left sidebar lists various AWS services, with 'EC2 Dashboard' and 'Instances' highlighted. The main content area shows a table of EC2 instances. One instance, 'demouser', is listed with ID 'i-091f1da631aef89cf', type 't2.micro', and state 'running'. Below the table, the details for the selected instance are displayed, including its public IP address '18.224.151.191' and public DNS 'ec2-18-224-151-191.us-east-2.compute.amazonaws.com'.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status
demouser	i-091f1da631aef89cf	t2.micro	us-east-2b	running	2/2 checks ...	None

Instance: **i-091f1da631aef89cf (demouser)** Public DNS: **ec2-18-224-151-191.us-east-2.compute.amazonaws.com**

Description	Status Checks	Monitoring	Tags
Instance ID	i-091f1da631aef89cf	Public DNS (IPv4)	ec2-18-224-151-191.us-east-2.compute.amazonaws.com
Instance state	running	IPv4 Public IP	18.224.151.191
Instance type	t2.micro	IPv6 IPs	-
Elastic IPs		Private DNS	ip-172-31-18-11.us-east-2.compute.internal
Availability zone	us-east-2b	Private IPs	172.31.18.11
Security groups	default, view inbound rules, view outbound rules	Secondary private IPs	
Scheduled events	No scheduled events	VPC ID	vpc-b33d14db

You can search for the instance under the search field with the **tag name** you associated during the launch configuration.

Under the instance details you can find the Public IP address of the instance you just launched. Once the **instance state** is **running** and **status check** is complete you can ssh to the instance with the below details.

Username : devops

Password : Dev0p\$!!/

To ssh to the instance : `ssh devops@<ip-addr-of-ec2-instance>`

Ex : `ssh devops@xxx.xxx.xxx.xxx` hit enter and enter the password shared above