

## RIL AWS Lab Access Instructions for GitHub and Docker

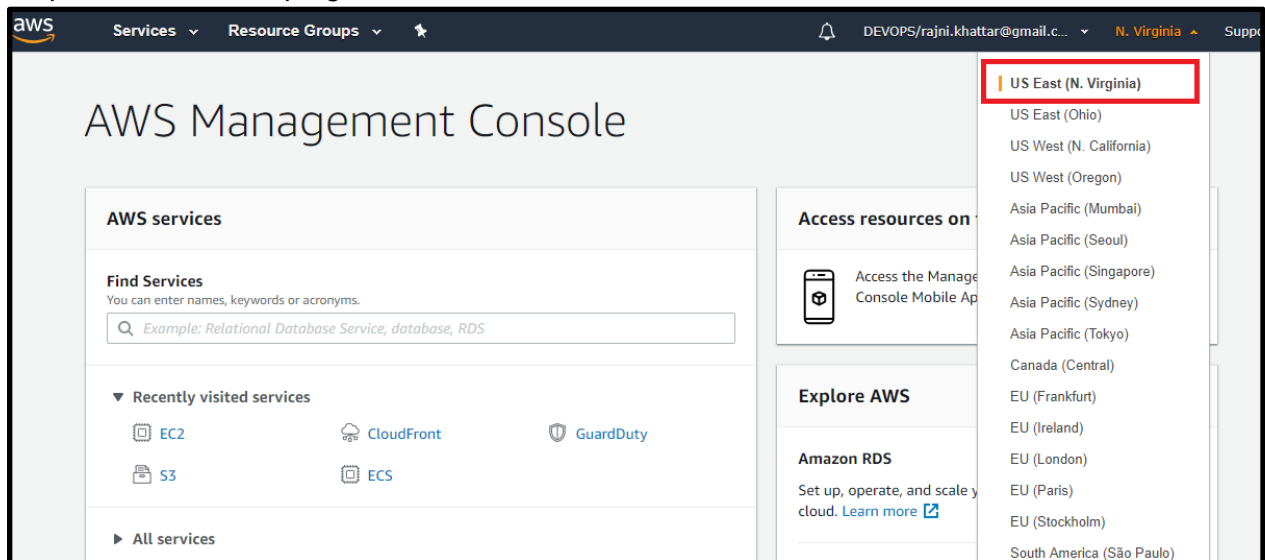
To login to the AWS account, please browse to the below URL:

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

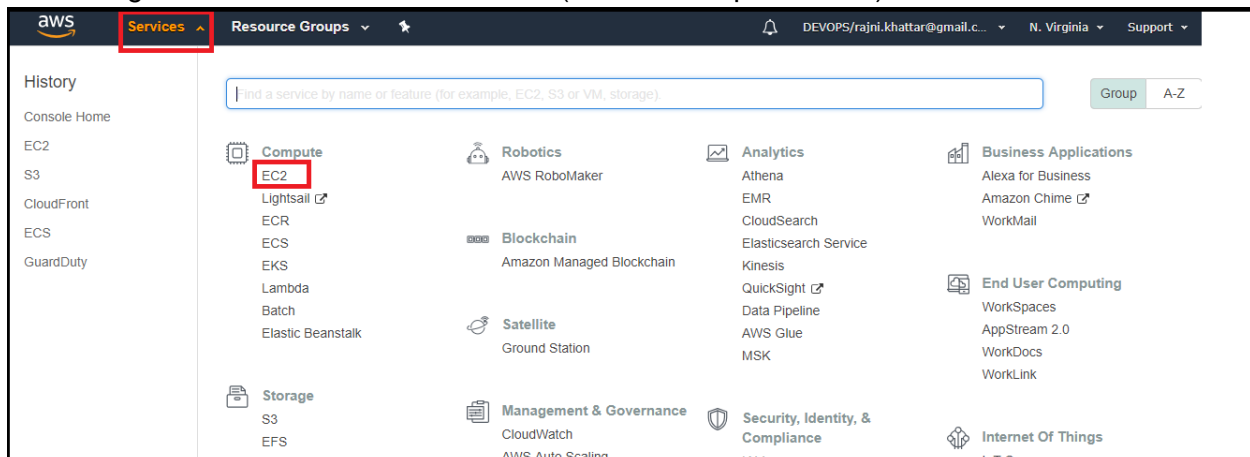
Signup with your **email account** and you will be redirected to AWS Console as shown below

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.

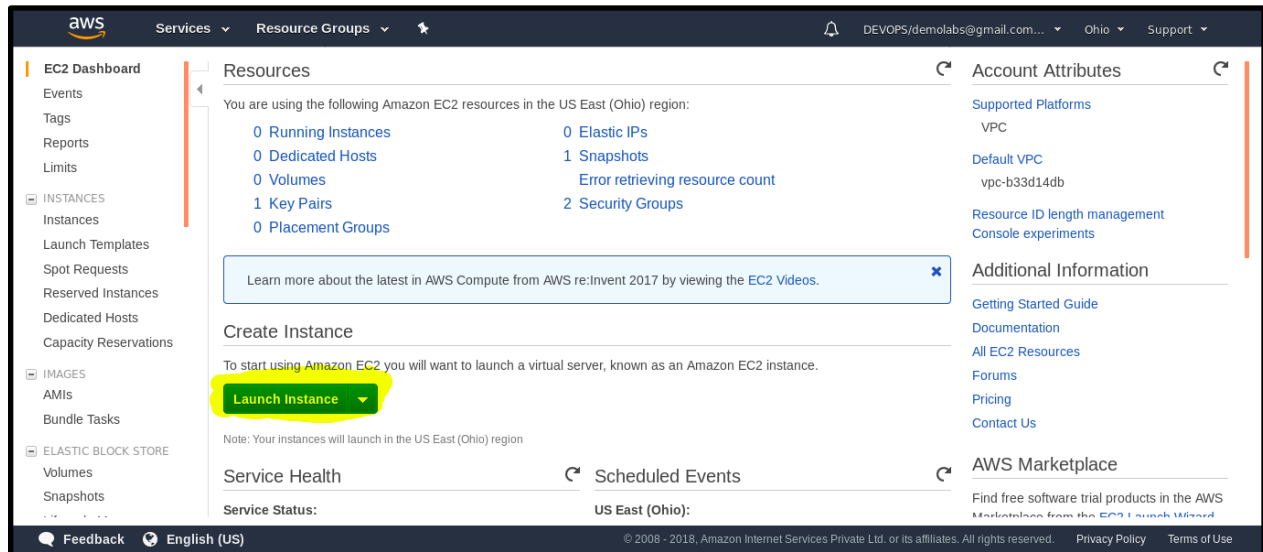


Now navigate to Services -> Click on **EC2** ( Elastic Compute Cloud).

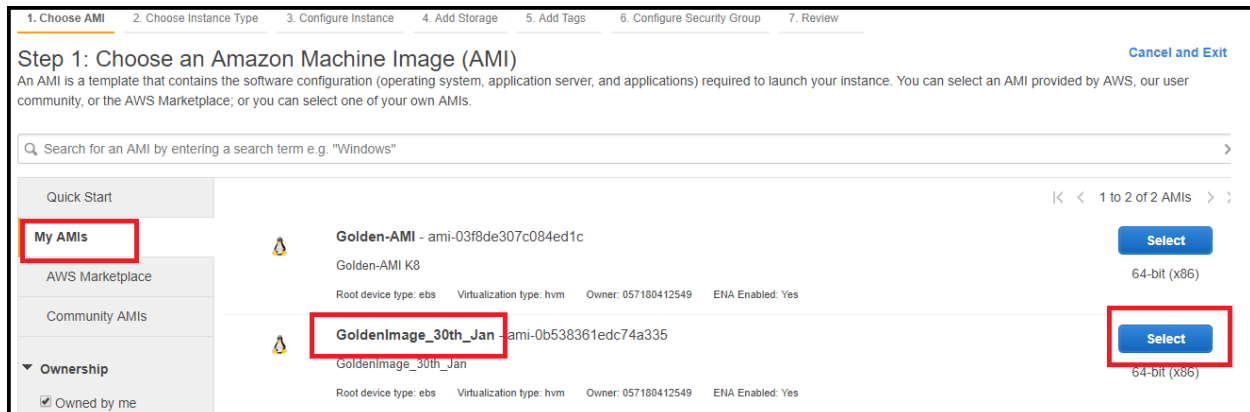


Follow the steps mentioned below-

1.) On the **EC2 Dashboard**, click on **Launch Instance** as shown below:



2.) Select **GoldenImage\_30th\_Jan** available under **My AMIs**



3.) Now on **Choose Instance Type** tab, Scroll down and select the **General purpose t2.micro** as the **Instance Type** and Click on **Next: Configure Instance Details**

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 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

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4.) On **Configure Instance** Tab, Click on **Next: Add Storage** button

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

### Step 3: Configure Instance Details

Number of instances 1 Launch into Auto Scaling Group

Purchasing option ☐ Request Spot Instances

Network vpc-7cf00b06 | DefaultVPC (default) Create new VPC

Subnet No preference (default subnet in any Availability Zone) Create new subnet

Auto-assign Public IP Use subnet setting (Enable)

Placement group ☐ Add instance to placement group

Capacity Reservation Open Create new Capacity Reservation

IAM role None Create new IAM role

CPU options ☐ Specify CPU options

Shutdown behavior Stop

Cancel Previous Review and Launch Next: Add Storage

5.) On **Add Storage** Tab, Ensure the **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](#)

6.) On **Add Tags** Tab, Click on **Add Tag** button.

Under **Key**, type **Name** and in **Value**, type a tag name in the format **<your-name>-server** and replace **<your-name>** with your name so that you can identify your instance once it has been launched and then click on **Next: Configure Security Group** button.

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	asyed-k8-master	<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](#)

7.) On **Configure Security Group** Tab, Select **Assign Security Group** as **Select an existing security group**, wait for some time till the Security Group Rules are loaded completely and then select the security group with **Name** as **Golden-AMI** and then click on **Review and Launch** button

**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	
SSH	TCP	22	0.0.0.0/0	

[Cancel](#) [Previous](#) [Review and Launch](#)

8.) On **Review** Tab, Review the instance details by scrolling the page and click on **Launch** button once all the details are verified.

**Step 7: Review Instance Launch**

**⚠️ 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](#)

▼ **AMI Details** [Edit AMI](#)

**DevOps-AMI - ami-0351cfbc0b958e2cd**  
[Copied ami-0270a53450f25c66d from us-east-1] DevOps-AMI  
Root Device Type: ebs Virtualization type: hvm

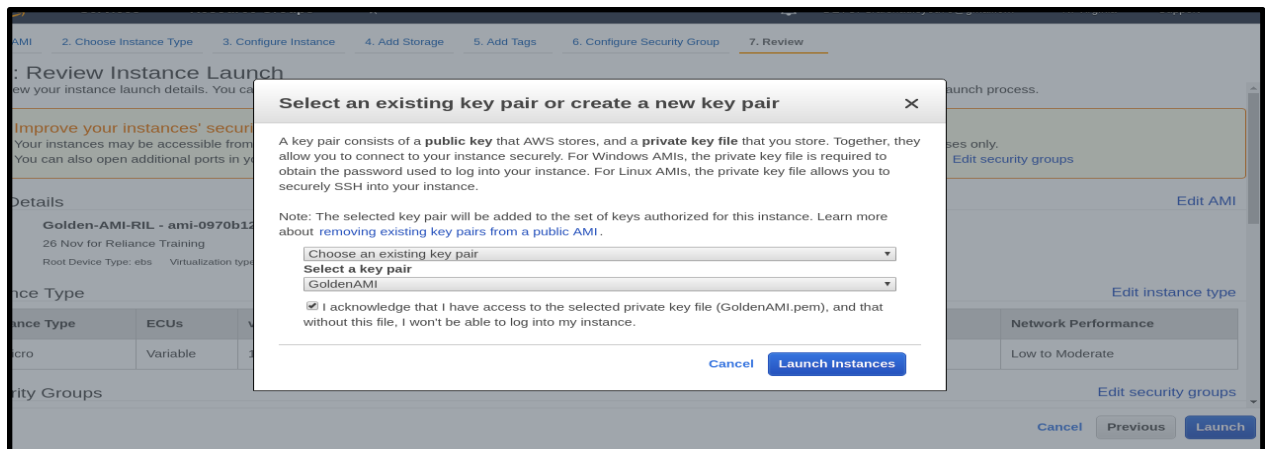
▼ **Instance Type** [Edit instance type](#)

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

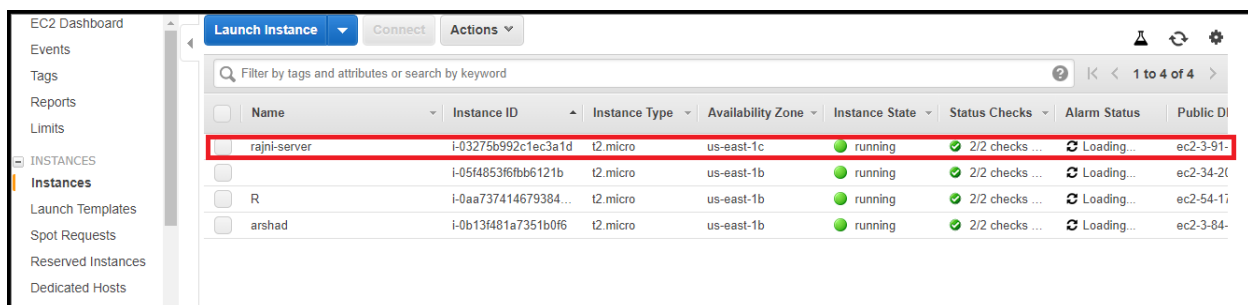
[Cancel](#) [Previous](#) [Launch](#)

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9.) Select **Choose an existing key pair** and select **GoldenAMI**, Select the **I acknowledge** checkbox and click on **Launch Instances**

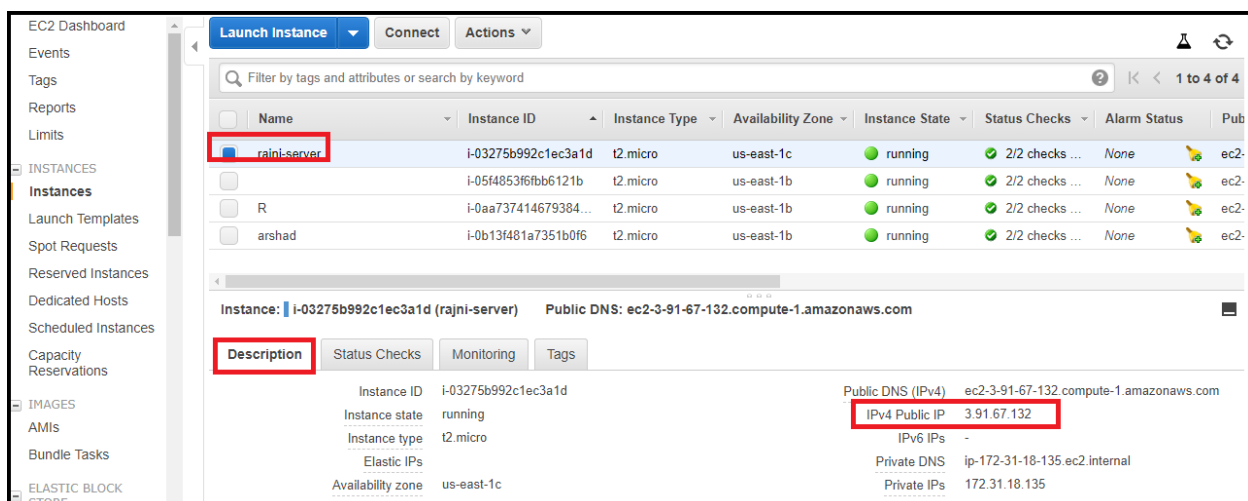


10.) Navigate to EC2 Dashboard -> Instances. Your Instance should be listed there.



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

Once the **Instance State** start showing **running** and **Status Checks** show **2/2 checks passed**, your instance will be launched completely. Select the instance row to view its details. You can find the Public IP address and other details of the instance in the **Description** Tab as shown below



Note: the credentials for your instance is:--

**Username:** devops

**Password:** Dev0p\$!!/

You can ssh to your instance using ssh Client and following the steps as mentioned below:-

**Run this command and replace xxx.xxx.xxx.xxx with public IP of your instance.**

**\$ ssh devops@xxx.xxx.xxx.xxx**

Hit enter and enter the password **Dev0p\$!!/** when prompted