

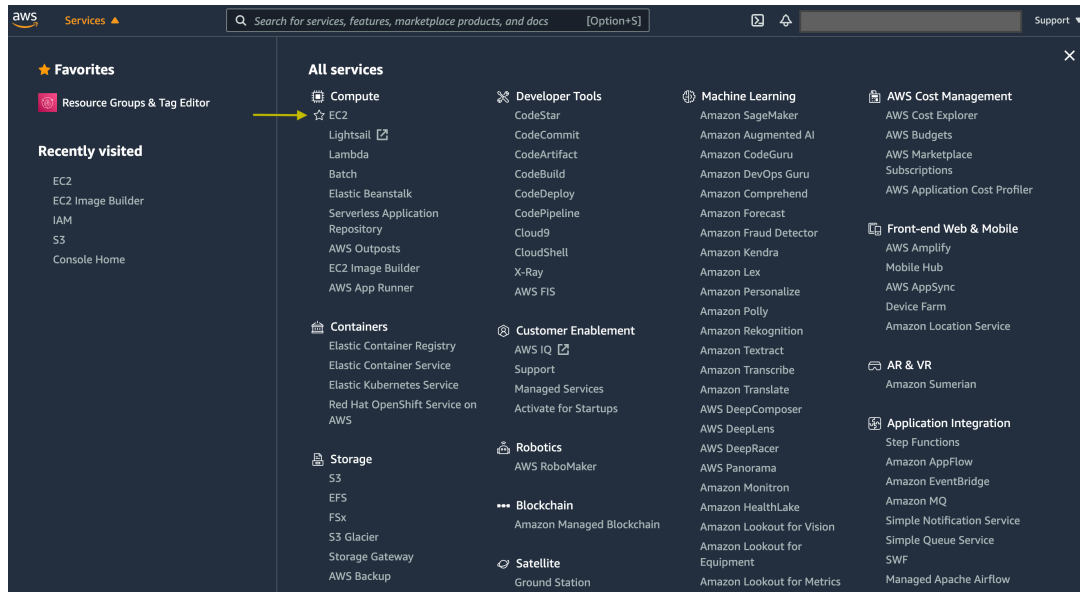
Deploying Vienna Advantage Community Edition VM Image on AWS Cloud EC2.

1. Pre-Requisite

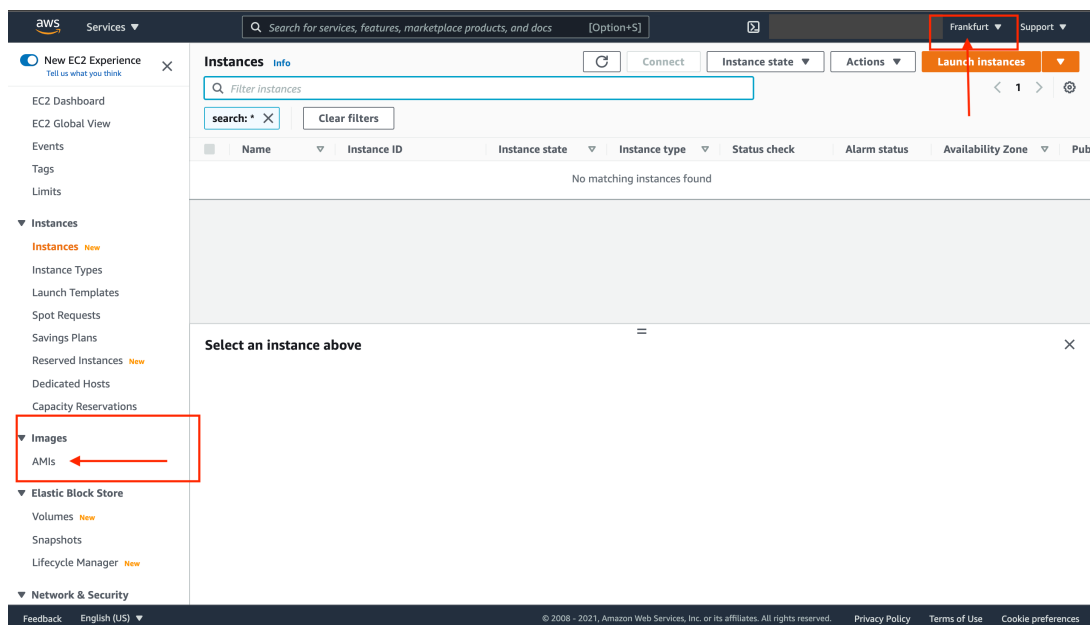
Create Login on AWS Cloud Or Login if you already have login and Change Region to **Europe (Frankfurt) eu-central-1**

2. Verify Access to VA Community AWS AMI.

1. After login into your AWS account and go to EC2 Service

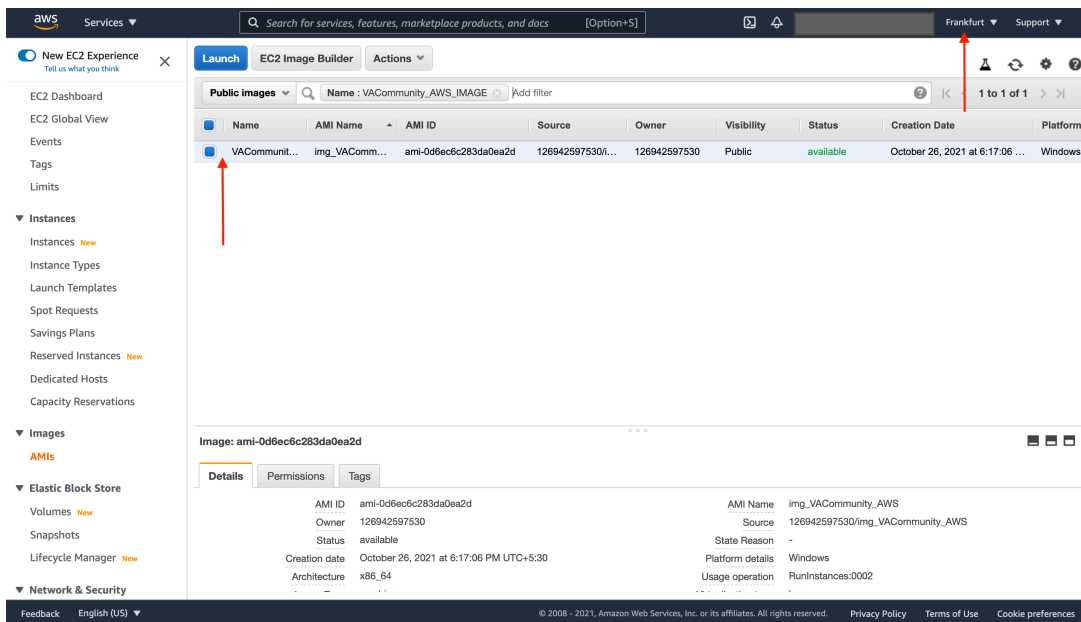
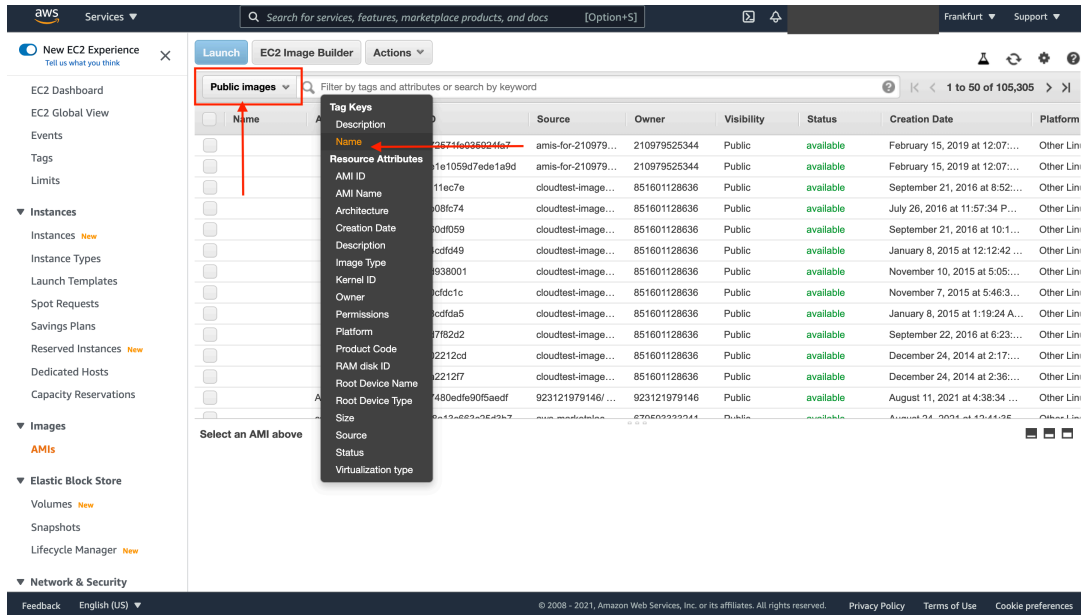


2. Select Frankfurt As Region and Click on AMI



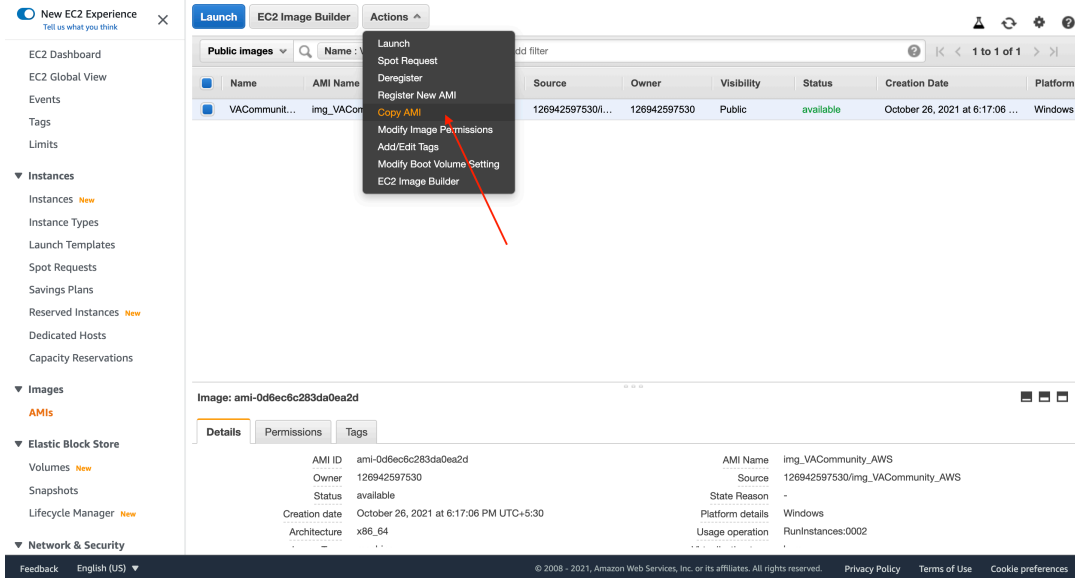
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3. Select Public Image from Drop Down and In Search Select Name and Enter AMI Name as “img_VACommunity_AWS”

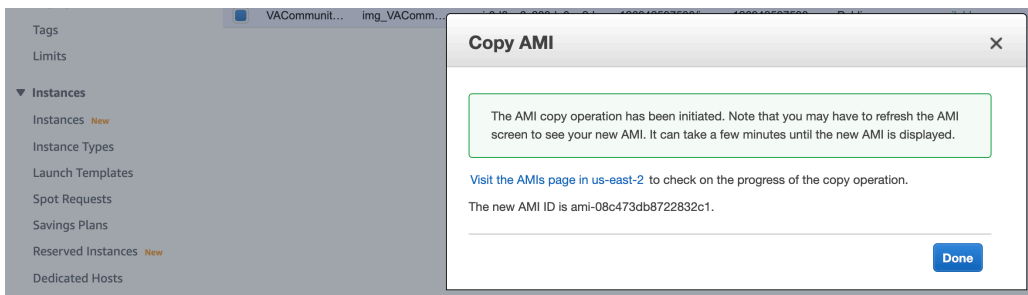
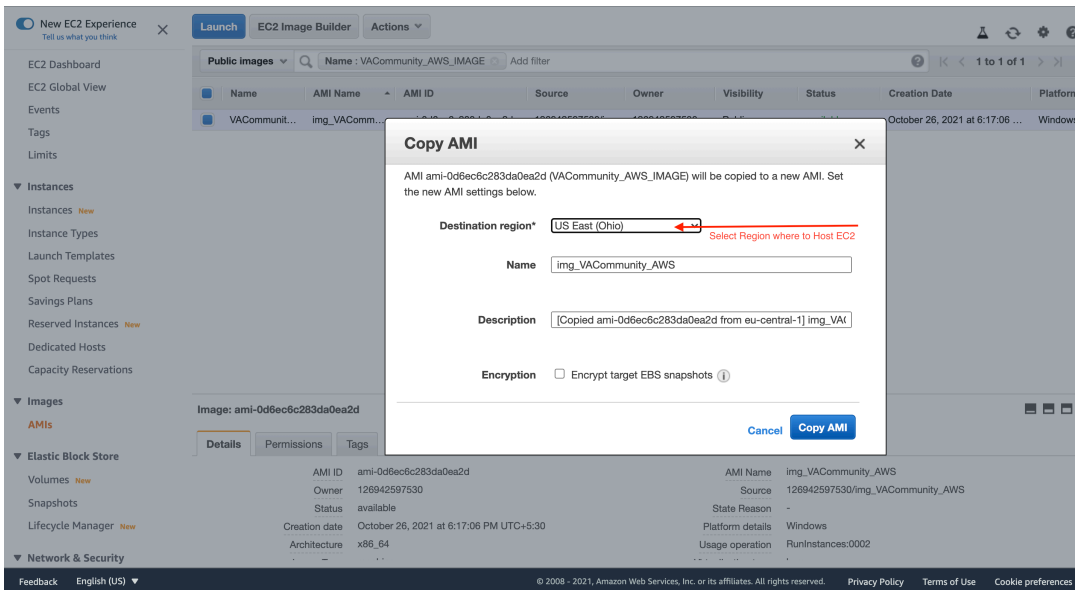


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- Copy VA Community AMI Image (img_VACommunity_AWS) to your Preferred Region where you want to spin EC2 Instance of Vienna Advantage



- Select Region and Press Copy AMI



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3. Create EC2 Instance from copied AMI

1. Verify that AMI is copied and Ready and Status is Available.
Select AMI and Click Launch to Create EC2 machine and host Vienna Advantage.

The screenshot shows the AWS Management Console interface for the 'New EC2 Experience'. The 'Launch' button is highlighted with a red arrow and the text 'Click Launch to Create EC2 VM'. The AMI status is 'available'.

Name	AMI Name	AMI ID	Source	Owner	Visibility	Status	Creation Date	Platform
img_VAComm...	ami-08c473db8722832c1	ami-08c473db8722832c1	126942597530f...	126942597530	Private	available	October 27, 2021 at 5:34:57 ...	Windows

Image: ami-08c473db8722832c1

Property	Value
AMI ID	ami-08c473db8722832c1
Owner	126942597530
Status	available
Creation date	October 27, 2021 at 5:34:57 PM UTC+5:30
AMI Name	img_VACommunity_AWS
Source	126942597530/img_VACommunity_AWS
State Reason	-
Platform details	Windows

2. Select EC2 Instance Type and Press "Next: Configure Instance Details". Recommended Type is T2.large or more.

The screenshot shows the 'Choose an Instance Type' step in the AWS Management Console. The 't2.large' instance type is selected.

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 families Current generation Show/Hide Columns

Currently selected: t2.large (- ECU, 2 vCPUs, 2.3 GHz, -, 8 GiB memory, EBS only)

Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
t2	t2.micro	1	1	EBS only	-	Low to Moderate	Yes
t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
t3	t3.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
t3	t3.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

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3. In Below Screen Configure Instance Details and change network/subnet etc setting as per your setup or choose default and proceed with “Next: Add Storage”

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

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

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

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4. In Below screen you can Add more storage or change volume type based on your requirement. Otherwise leave it default and press Next: Add Tag:

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

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/sda1	snap-0377c6d1202a1cf0e	<input type="text" value="60"/>	General Purpose SSD (gp2)	180 / 3000	N/A	<input 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

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5. Add Tag (Name) to EC2 Machine and Press Next: Configure Security Group

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 = Webservers.
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 (128 characters maximum)	Value (256 characters maximum)	Instances (1)	Volumes (1)	Network Interfaces (1)
Name	EC2 Vienna Advantage	<input checked="" type="checkbox"/>	<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](#)

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6. In Security group configuration. You need to Allow Port 8011 from anywhere to Access Vienna Advantage App from browser.

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 name:
Description:

Type (1)	Protocol (1)	Port Range (1)	Source (1)	Description (1)
RDP	TCP	3389	[Anywhere] 0.0.0.0, ::0	e.g. SSH for Admin Desktop
Custom TCP F	TCP	8011	[Anywhere] 0.0.0.0, ::0	e.g. SSH for Admin Desktop

[Add Rule](#)

Warning
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.

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

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Note: We have pre-configured IIS to run on 8011 port for VA Application. Click Review and Launch

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7. Ignore Warnings and Click Launch

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.

⚠ Improve your instances' security. Your security group, launch-wizard-1, 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](#)

⚠ Your instance configuration is not eligible for the free usage tier
To launch an instance that's eligible for the free usage tier, check your AMI selection, instance type, configuration options, or storage devices. Learn more about [free usage tier](#) eligibility and usage restrictions. [Don't show me this again](#)

AMI Details [Edit AMI](#)

img_VACommunity_AWS - ami-08c473db8722832c1
[Copied ami-0d6ec6c283da0ea2d from eu-central-1] img_VACommunity_AWS
Root Device Type: ebs Virtualization type: hvm
If you plan to use this AMI for an application that benefits from Microsoft License Mobility, fill out the [License Mobility Form](#). [Don't show me this again](#)

Instance Type [Edit 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 [Edit security groups](#)

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

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8. Please make sure to generate Key Pair and Download it . You will need it to generate Administrator password of this EC2.

After download key Pari Click Launch

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](#).

Create a new key pair ▼

Key pair type
 RSA ED25519

Key pair name

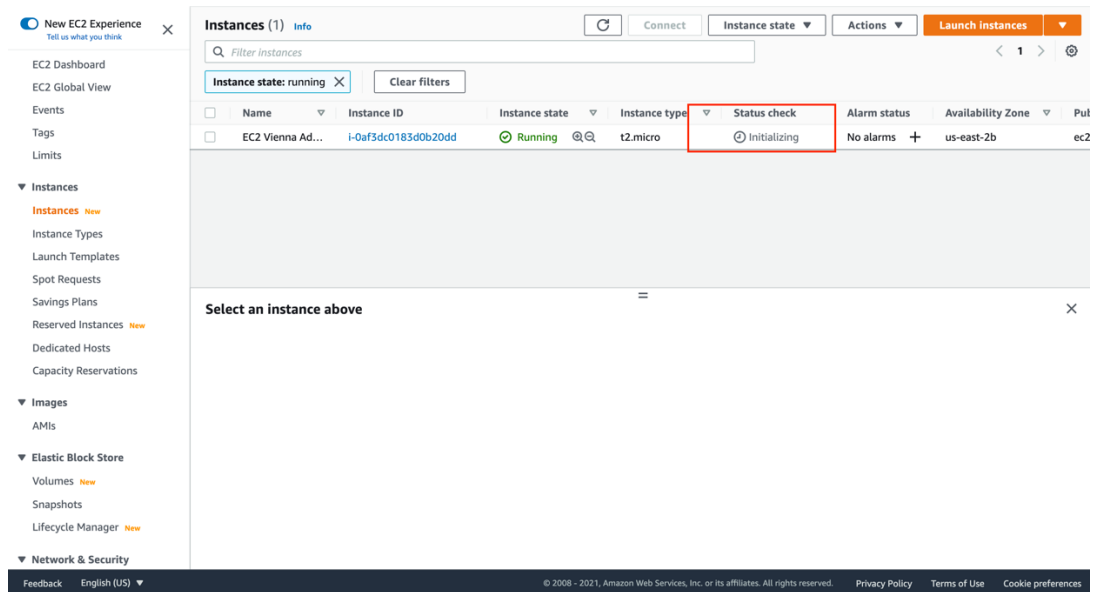
[Download Key Pair](#)

ⓘ You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

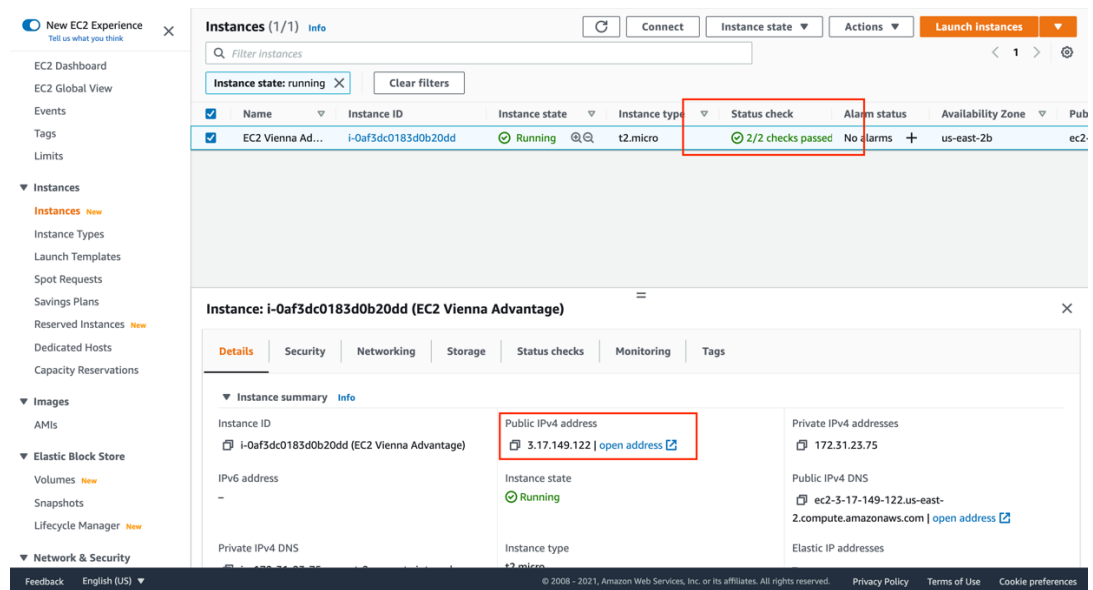
[Cancel](#) [Launch Instances](#)

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9. EC2 Instance is under creation .



10. EC2 Instance is up and running now. You can see assigned Public IP to use same to access VA Application.



Note: You will get some other Public IPV4 Addresses
This Public IP will get change after every reboot. Please assign Elastic IP to this EC2 Instance.

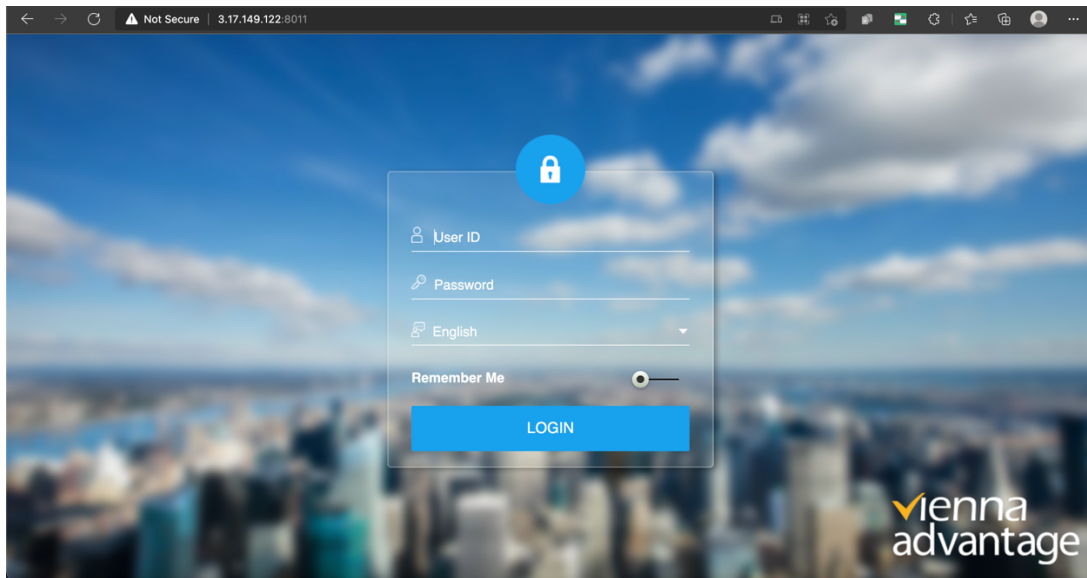
Ref below link for more details.

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/elastic-ip-addresses-eip.html>

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3. How to Access VA Application from Browser

VA Application is configured on Port 8011 so to access VA application from browser (Recommended: Chrome) URL will be <http://your-public-EC2-IP:8011>



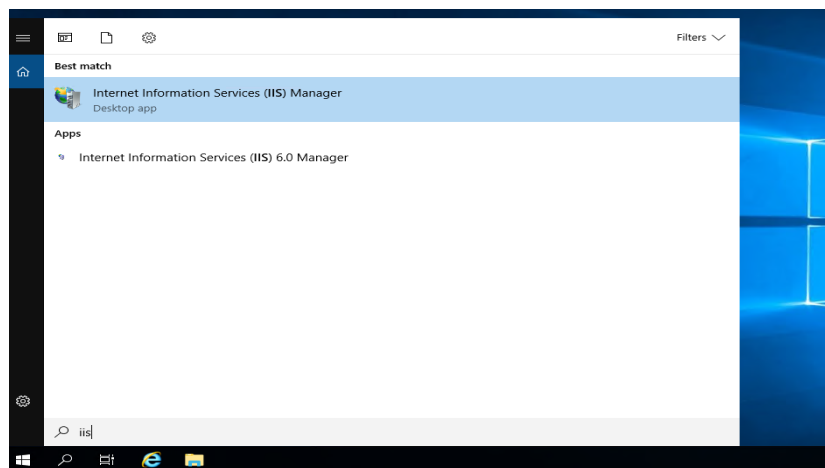
Please Note: You have to provide server IP to VA Support Team for getting application Key to activate URL. Login details will be sent via email.

Troubleshooting Steps.

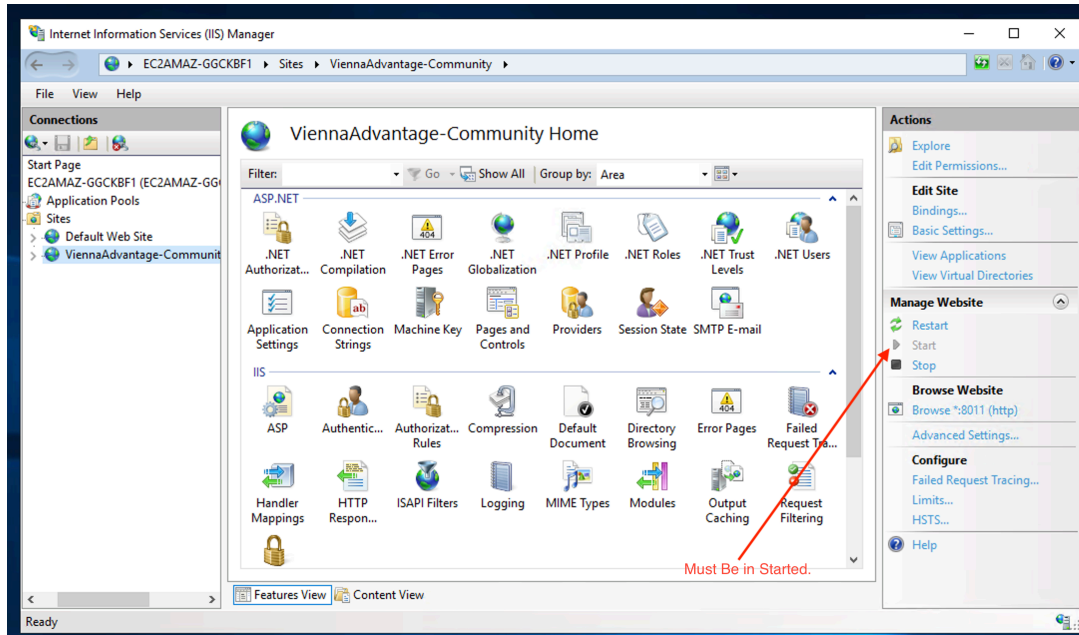
In case if your link is not working. Kindly follow some basic Troubleshooting point. By login into the VM via Remote Desktop (RDP) using Public IP of VM and Credentials provided on email.

Issue 1: IIS Is Down. / Website not coming up.

Open IIS Manager in window server



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Issue 2: Postgres DB Service is down

Open services and check the below services are up and running. If required, please restart them

