

VIENNA Advantage

Installation & Setup Guide
on
Amazon Web Service (AWS)

Introduction

What's in this Guide

The main scope of this document is to let the user understand the VIENNA Advantage setup process from pre-installed AMI Image on Amazon Web service (AWS).

Preface

Learn how to setup and configure VIENNA Advantage, on EC2 machine on AWS and perform post installation tasks.

Audience

This guide is intended for anyone interested in installing VIENNA Advantage.

To use this document, you need the following:

- ✓ Familiar with AWS environment and have privileges to create EC2 machine and Security Groups.
- ✓ Knowledge of Managing RDBMS i.e., Oracle or PostgreSQL.

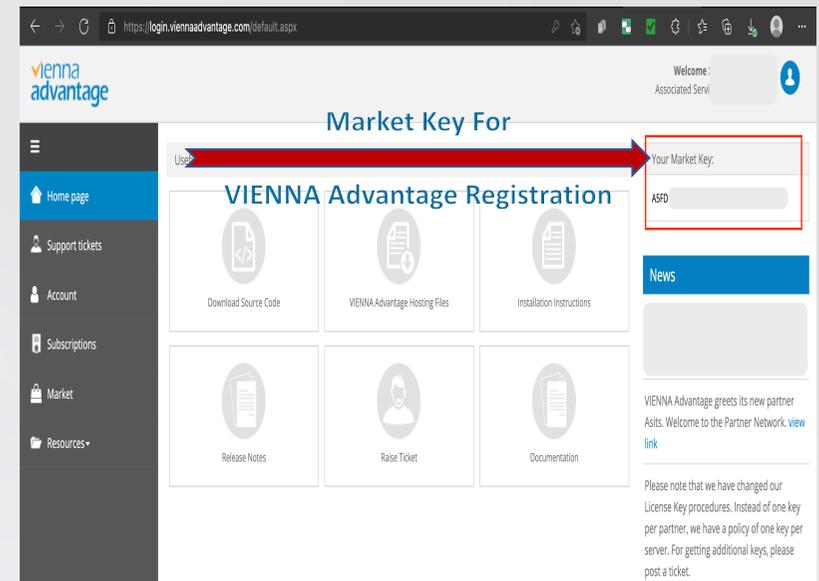
Community Registration

VIENNA Advantage Community Registration process.

VIENNA Advantage Application requires a **Market** Key for activation. The key is free for the community edition and can be generated using below steps

- ✓ Register to VIENNA Advantage community by using below link: <https://login.viennaadvantage.com/register.aspx>
- ✓ After successful registration Login into VIENNA Advantage community using below link: <https://login.viennaadvantage.com/login.aspx>
- ✓ After logging into the VIENNA Advantage Community Portal. You will find "**Your Market Key**" on the right pane. Please refer to the area highlighted in red on the screenshot .
- ✓ This Market key is required after installation in your environment at the time of registering the VIENNA Advantage application .

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AWS Account Login

Access your AWS account

To Access pre-configured VIENNA Advantage Application AMI image, you need to login into your AWS account.

- ✓ Login to AWS account using below link:
<https://signin.aws.amazon.com/>
- ✓ If you don't have AWS account, please create it using below link:
<https://portal.aws.amazon.com/billing/signup#/start/email>

VIENNA Advantage aws AMI

How to choose latest VIENNA Advantage AMIs available to create EC2 machine.

VIENNA Advantage Supports two different RDBMS i.e. Oracle & PostgreSQL. VIENNA Advantage is providing two different aws EC2 images for public use.

We regular updates these AMIs (images) to latest VIENNA Advantage releases. Please follow below steps to find latest AMI name available for Oracle database or PostgreSQL database.

How to get latest AMI name?

Open below link and you will find different AMIs name with respect to RDBMS.

<https://www.viennaadvantage.com/installation-packages.php>

RDBMS	AMI Name Example
Oracle	VACommunity_4.10_ORACLE_AWS_Image
PostgreSQL	VACommunity_4.10_PSQL_AWS_Image

The screenshot shows the Vienna Advantage website's installation packages page. The page title is "Decide what you want to install". It features three main columns: "Hosting files with Oracle Database", "Hosting files with PostgreSQL Database", and "Installation Instructions". The "Hosting files with Oracle Database" column shows the latest version 4.10.1.0 and a "Download" button. Below it, under "Archived versions", the "AWS Image Name" is listed as "VACommunity_4.10_ORACLE_AWS_Image". The "Hosting files with PostgreSQL Database" column shows the latest version 4.10.1.0 and a "Download" button. Below it, the "AWS Image Name" is listed as "VACommunity_4.10_PSQL_AWS_Image". The "Installation Instructions" column has a "Get Instructions" button and links to "AWS Images and Instructions" and "Oracle Cloud Images and Instructions".

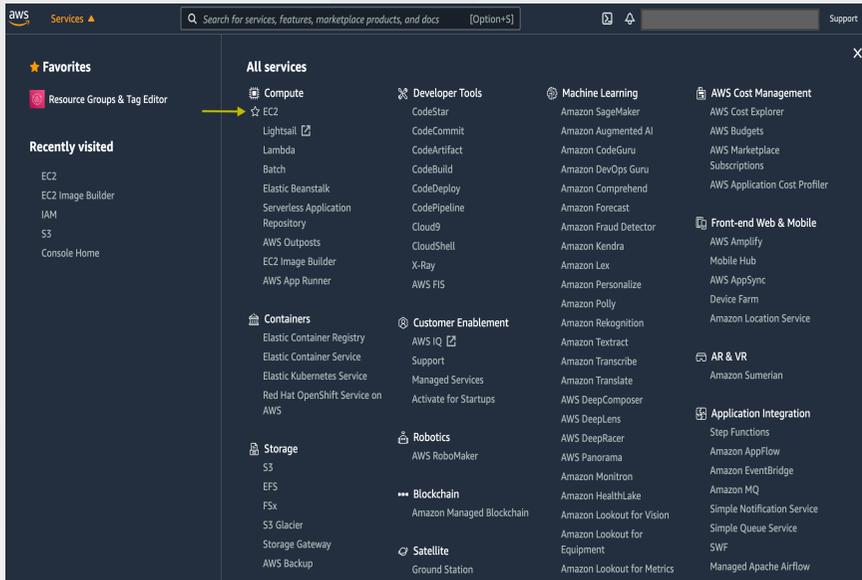
Installation Sequence

Please follow below Sequence to setup and configure VIENNA Advantage in your AWS environment using AMI.

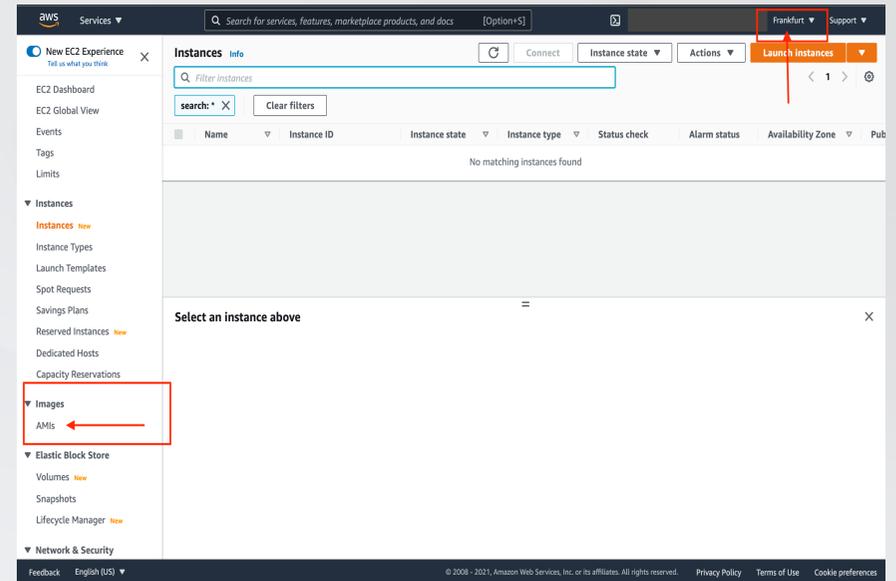
- 1) Create EC2 machine from VIENNA Advantage AMI
- 2) Access VIENNA Advantage Application.
- 3) Register VIENNA Advantage application.
- 4) Install/Update Application/Module.
- 5) Troubleshooting

Create EC2 machine from VIENNA Advantage AWS AMI

1. Login into your AWS account and go to **EC2** Service



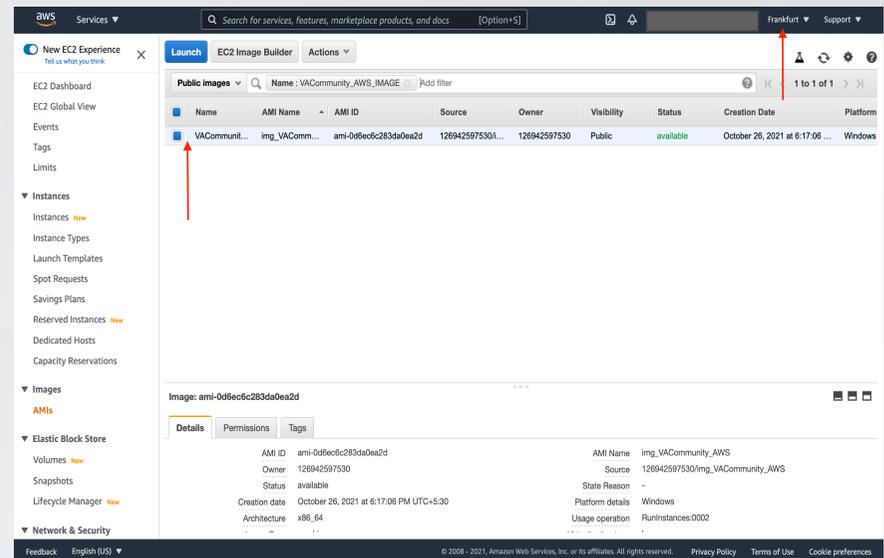
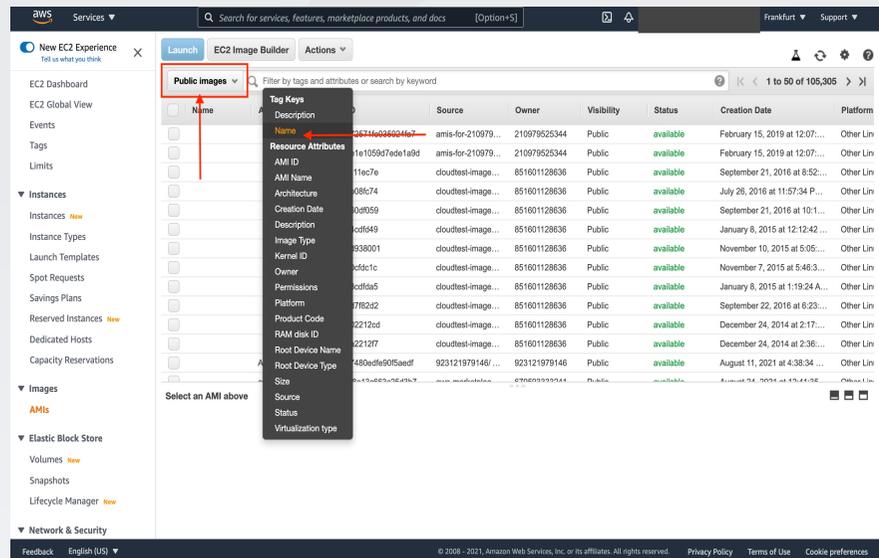
2. Select **Frankfurt** As Region and Click on **AMI**



Select VIENNA Advantage AWS AMI

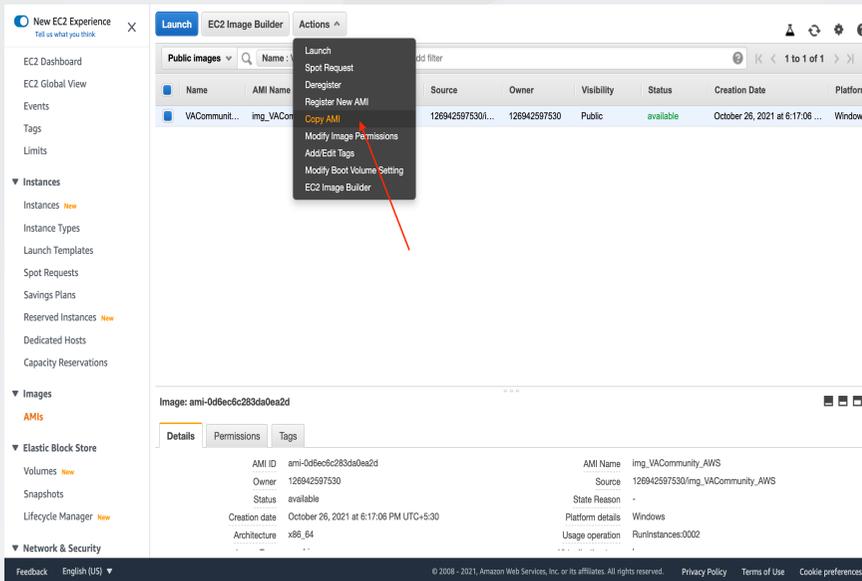
3. Select Public Image from Drop Down and In Search Select Name and Enter VIENNA Advantage AMI Name.

Note: Please find latest AMI name from like (<https://www.viennaadvantage.com/installation-packages.php>) or Refer. Page# 5 of this document.

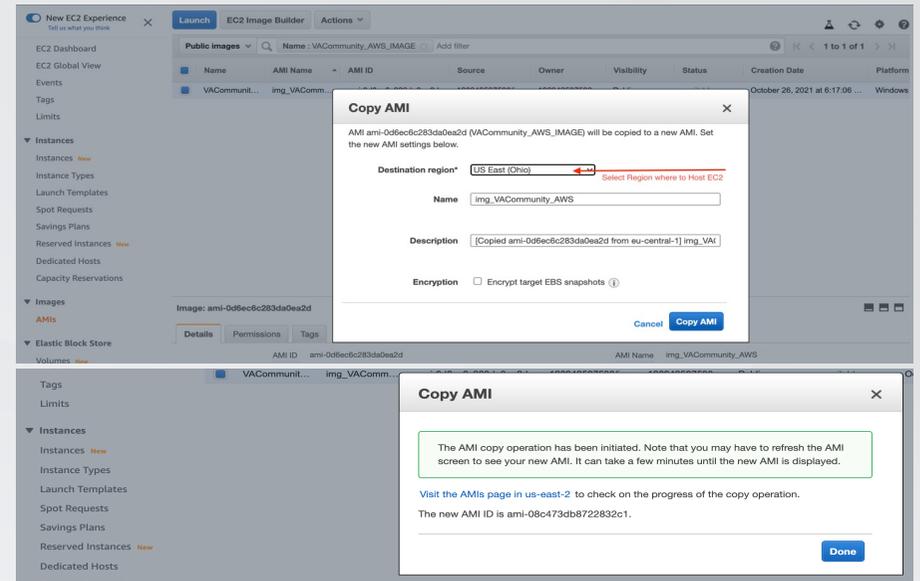


Copy VIENNA Advantage AMI To Your AWS Account

4. Copy AMI to your AWS Account before spinning EC2 machine.

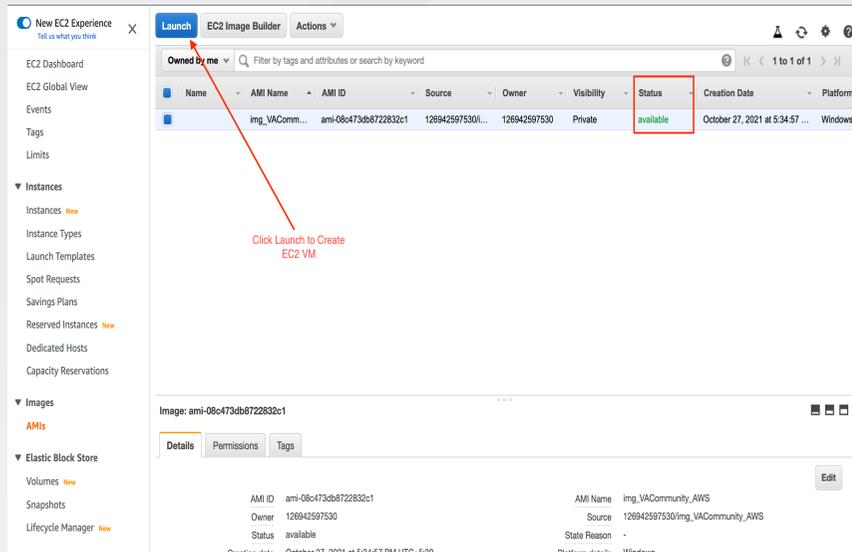


5. Choose region where you want to host EC2 from AMI and click Copy AMI.

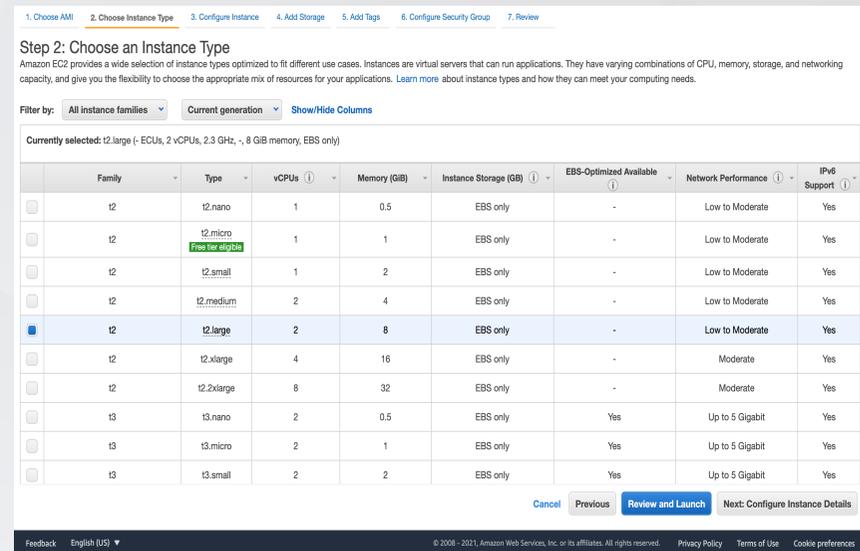


Create EC2 Instance from copied AMI

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



7. Select EC2 Instance Type and Press “Next: Configure Instance Details” . Recommended Type is T2.large or more.



EC2 Instance Configuration (Network & Storage)

8. 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”

The screenshot shows the 'Step 3: Configure Instance Details' page in the AWS Management Console. The page is divided into several sections with various configuration options:

- Number of instances:** Set to 1, with a 'Launch into Auto Scaling Group' link.
- Purchasing option:** 'Request Spot instances' checkbox is unchecked.
- Network:** 'vpc-039b6a273753f5e1f (default)' is selected, with a 'Create new VPC' link.
- Subnet:** 'No preference (default subnet in any Availability Zone)' is selected, with a 'Create new subnet' link.
- Auto-assign Public IP:** 'Use subnet setting (Enable)' is selected.
- Placement group:** 'Add instance to placement group' checkbox is unchecked.
- Capacity Reservation:** 'Open' is selected.
- Domain join directory:** 'No directory' is selected, with a 'Create new directory' link.
- IAM role:** 'None' is selected, with a 'Create new IAM role' link.
- Shutdown behavior:** 'Stop' is selected.
- Stop - Hibernate behavior:** 'Enable hibernation as an additional stop behavior' checkbox is unchecked.
- Enable termination protection:** 'Protect against accidental termination' checkbox is unchecked.
- Monitoring:** 'Enable CloudWatch detailed monitoring' checkbox is unchecked, with a note 'Additional charges apply.'

At the bottom, there are navigation buttons: 'Cancel', 'Previous', 'Review and Launch', and 'Next: Add Storage'.

9. 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

The screenshot shows the 'Step 4: Add Storage' page in the AWS Management Console. It displays a table of storage configurations for the root volume:

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/sda1	snap-0377c6df202a1c40e	60	General Purpose SSD (gp2)	180 / 3000	N/A	<input type="checkbox"/>	Not Encrypt

Below the table, there is an 'Add New Volume' button and a blue box with the text: '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.'

At the bottom, there are navigation buttons: 'Cancel', 'Previous', 'Review and Launch', and 'Next: Add Tags'.

EC2 Instance Configuration (Tags & Security Group)

10. Add Tag (Name) to EC2 Machine
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 = 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 (128 characters maximum)	Value (256 characters maximum)	Instances	Volumes	Network Interfaces
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](#)

11. In Security group configuration. You need to Allow Port 3389 & 8011 from anywhere to Access Vienna Advantage App from browser. **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 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	Protocol	Port Range	Source	Description
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 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](#)

Note: VA AMI comes with pre-configured IIS which runs VA Application application on 8011 port.

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EC2 Instance Configuration (Launch Instance)

12. 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-0d8e6c283da0ea2d 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 (GiB)	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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13. Generate and Download Key-Pair and click on Launch Instance

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

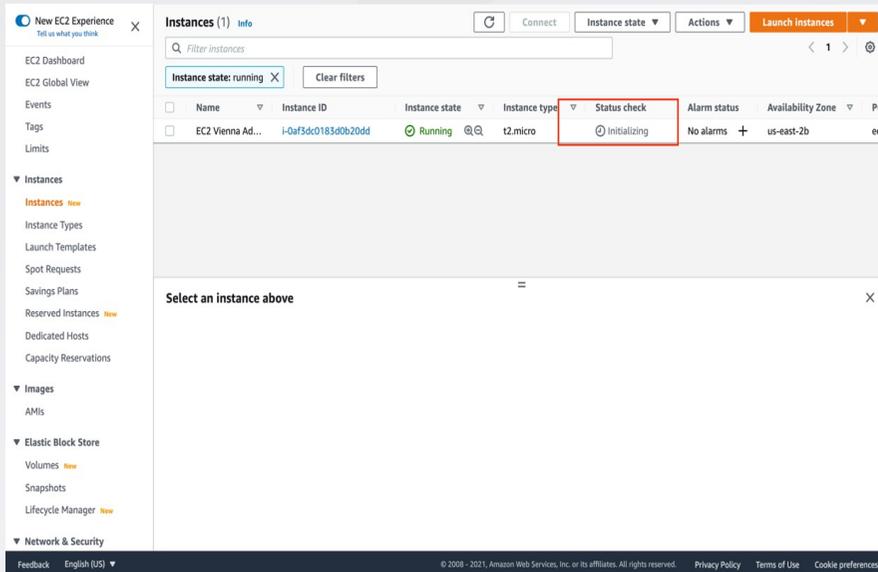
[Download Key Pair](#)

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](#)

EC2 Instance Creation

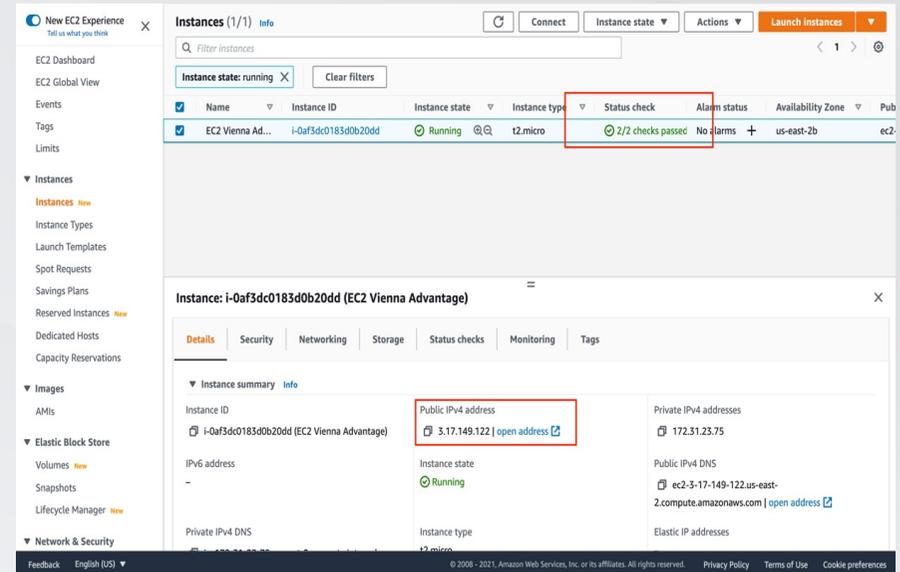
14. EC2 Instance is under creation now. Please monitor status check marked in below



The screenshot shows the AWS Management Console 'Instances' page. The instance 'EC2 Vienna Ad...' with ID 'i-0af3dc0183d0b20dd' is in the 'Initializing' state. The 'Status check' column shows a red 'X' icon, indicating that the instance is not yet ready.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Pub
EC2 Vienna Ad...	i-0af3dc0183d0b20dd	Running	t2.micro	Initializing	No alarms	us-east-2b	ec2

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



The screenshot shows the AWS Management Console 'Instances' page. The instance 'EC2 Vienna Ad...' with ID 'i-0af3dc0183d0b20dd' is in the 'Running' state. The 'Status check' column shows a green checkmark, indicating that the instance is ready. The 'Public IPv4 address' is highlighted in red.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Pub
EC2 Vienna Ad...	i-0af3dc0183d0b20dd	Running	t2.micro	2/2 checks passed	No alarms	us-east-2b	ec2

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0af3dc0183d0b20dd (EC2 Vienna Advantage)	3.17.149.122 open address	172.31.23.75

Assign Elastic IP to EC2 Instance

AWS EC2 doesn't have static public IP address and it keeps on changing after every reboot. To use Static IP to an EC2 instance please assign an Elastic IP.

An Elastic IP address is a static IPv4 address designed for dynamic cloud computing. An Elastic IP address is allocated to your AWS account, and is yours until you release it.

Ref below link on how to create and assign Elastic IP to AWS instance.

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

RDP into EC2 instance

VIENNA Advantage AMI is build on Windows OS, So after Launching EC2 instance from AMI you can login to your VIENNA Advantage EC2 instance via Remote Desktop Service (RDP) using below credentials.

Server/Host : Your Elastic IP/Public IP assigned.

Username: Administrator

Password: whhK&cun!vb8HjjH

Note: Please change password after login.

Access VIENNA Advantage

To access VIENNA Advantage Application please open Google Chrome Browser.

Type website url with port# in browser as below

<http://your-public-EC2-IP:8011>

VIENNA Advantage Application Login Details

System Administrator's credentials

Super username: SuperUser

Super user password: System@123

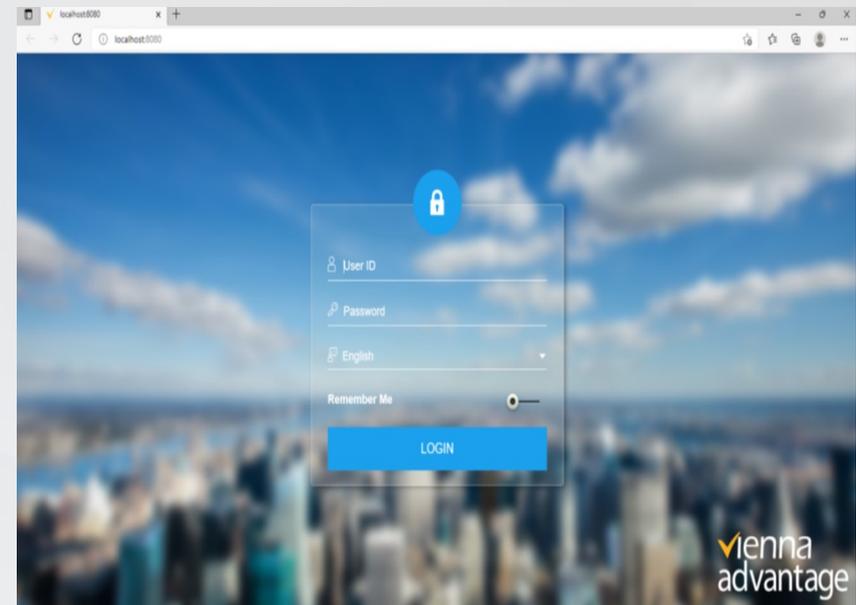
Demo Environment credentials

Demo username: IdeasIncAdmin

Demo user password: IdeasIncAdmin

Demo company name: Ideas Inc

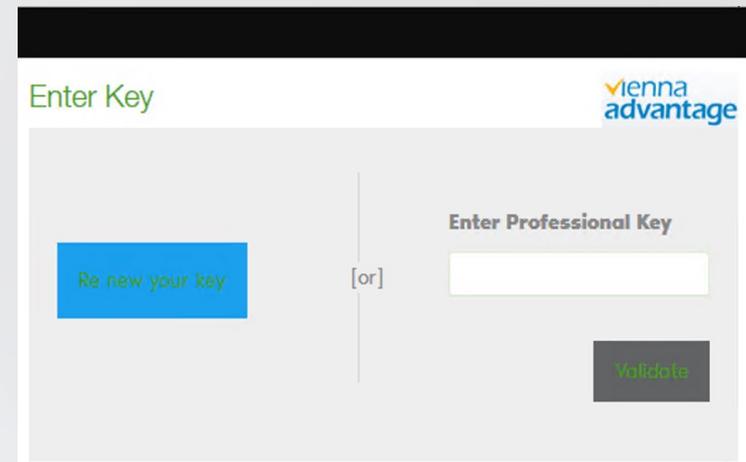
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Register VIENNA Advantage

- 1) After Successful login into VIENNA Advantage application You will be prompted to enter Key.
- 2) Enter the **Market Key** you have/copied from VIENNA Advantage Community Portal Dashboard, or get it by visiting <https://login.viennaadvantage.com/login.aspx>



The screenshot shows the 'Enter Key' page of the VIENNA Advantage application. The page has a white background with a black header bar. The title 'Enter Key' is in green text at the top left, and the 'vienna advantage' logo is at the top right. Below the title, there is a blue button labeled 'Re new your key'. To the right of this button is a vertical line, followed by the text '[or]'. To the right of '[or]' is a white input field with a green border, labeled 'Enter Professional Key'. Below the input field is a dark grey button labeled 'Validate'.

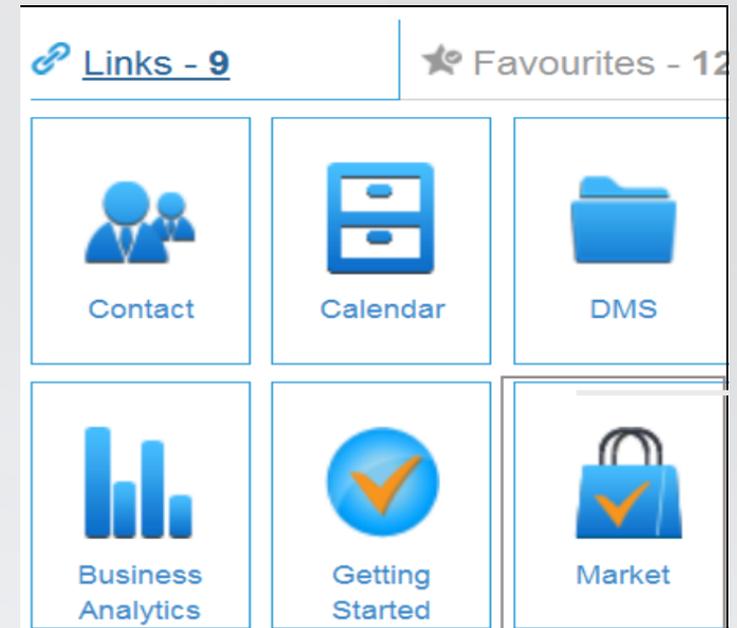
The VIENNA advantage application is now hosted successfully in the system.

About Market

VIENNA Advantage, Market is a single repository for application modules. You can update your currently installed modules to new versions available in Market or you can install modules which are not currently available in your application. Thus, you can access the Market to update or augment your current installation.

For accessing the Market, please log in to VIENNA Advantage. You are required to log in as **SuperUser** user as only the System Administrator has the right to install software from Market. Upon successful login to VIENNA Advantage, the home page is made visible to the user. A link to the Market is located on the Home page of a User in VIENNA Advantage. On the Home Page, there are certain Icons under Links, one of which is Market. The Market page is used to facilitate update and augmentation of VIENNA Advantage Software, by providing links to important and recent updates and add-ons to VIENNA Advantage Software.

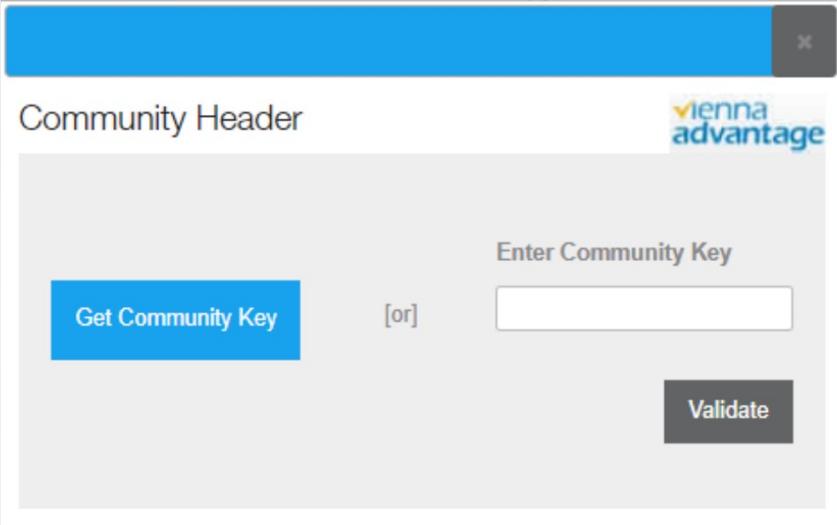
Upon clicking on Market, you can see another screen which displays information on all the applications available in the Market. These applications are classified and displayed under different categories or tabs like All Apps, Top Paid, Top Free, Planned, My Apps and Private. The screen presents the information in a summary along with the details of each application as follows



Install/Upgrade Application

As a System Administration User, you can install new applications from the Market or you may upgrade your existing applications from the Market. Before installing any module it will ask for community License Key or Professional License key. Once you have input the key it will automatically detect whether it is community key or professional key and provide modules accordingly, it will not ask for a key again.

Note: Please note that It's advisable that all users must be disconnected from VIENNA Advantage during installation or upgrade of applications or modules.



The screenshot shows a dialog box titled "Community Header" with the Vienna Advantage logo in the top right corner. The dialog contains a blue button labeled "Get Community Key" on the left, followed by the text "[or]" and a white text input field on the right. Above the input field is the label "Enter Community Key". Below the input field is a dark grey button labeled "Validate".

Market Modules List to update

- Market
- VIENNA Advantage Base Files
- VIENNA Advantage Framework
- VIENNA Advantage Upgrade 4
- Supporting Files
- Workspace
- VIENNA Advantage Dashboard
- Report Helper Files
- VIENNA Advantage Material Management
- VIENNA Advance Pricing
- UOM Pricing
- Tax Type
- Payment Management
- Bank Statement
- Product management
- Inventory Count
- VA Reports

Key Points Before Installation

Please note that It is advisable that all existing users are disconnected from VIENNA Advantage while a new application is being installed.

To install applications from VIENNA Advantage Market, you must have administration rights

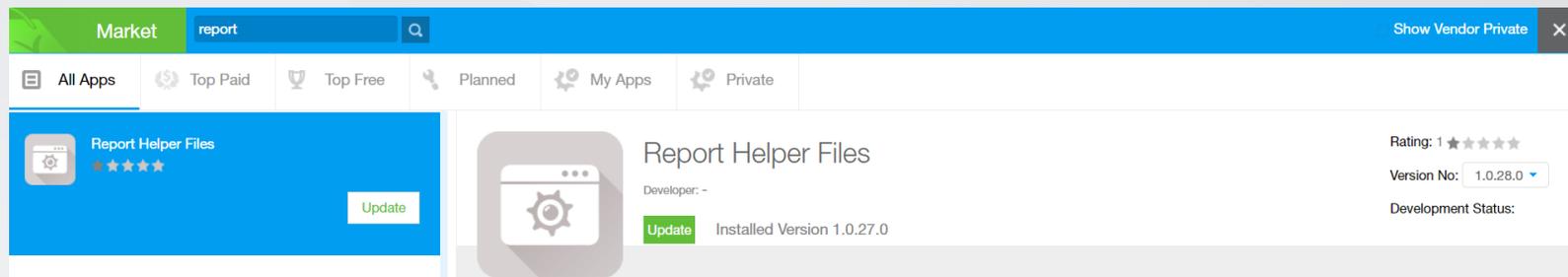
- ✓ Identify and locate the application to be installed
- ✓ Click on Install – installation progresses and a log is displayed
- ✓ Check the log to indicate completion of the installation process
- ✓ Click Re-Login

Identify & Locate Application

VIENNA Advantage Market gives you search option where you can type and search for an application or module you want to Install or update.

In below steps we are taking as example the Report Helper Files. Similarly, you can follow these steps for other applications too.

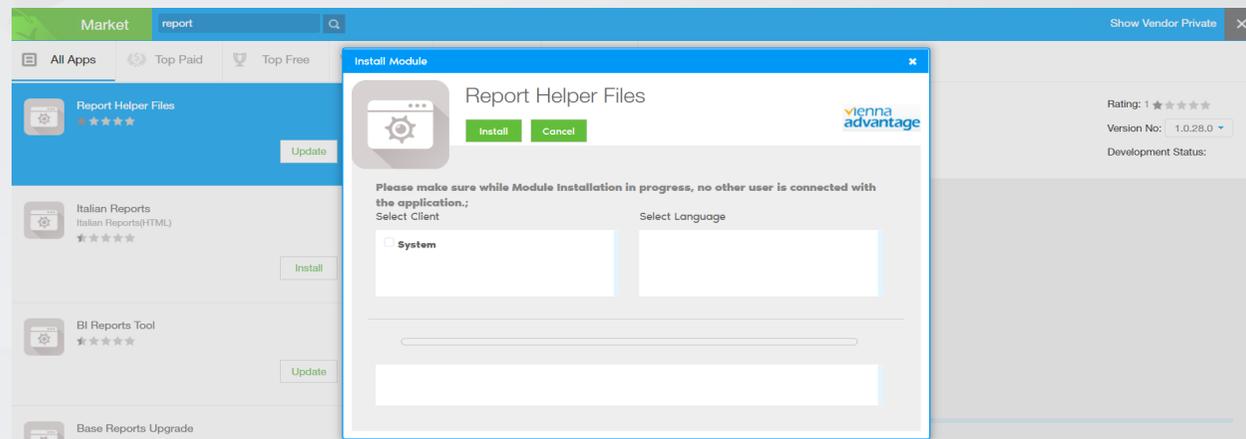
Type “Report” in search option – system returns the following screen



The system is showing “Update” button implying that currently the same application is installed on your server

Install/Update Application

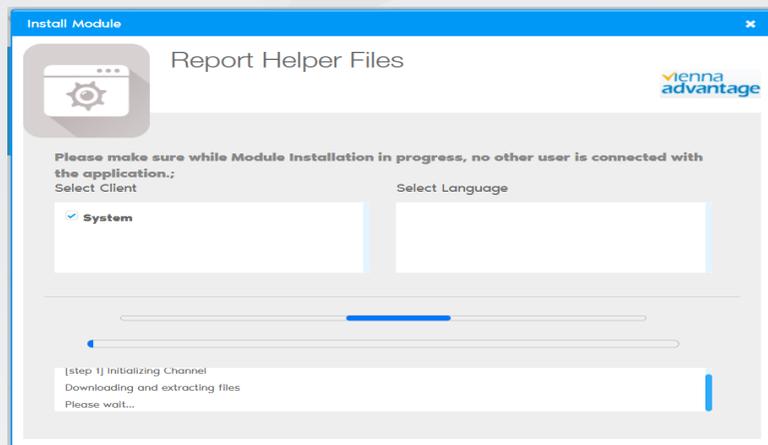
On this screen, there are different tenants displayed and you need to select all the tenants for which the application is to be installed, by checking the corresponding checkbox. The application will be installed only for those tenants.



Once you click on the “Install” or “Update” Button, VIENNA Advantage automatically downloads and installs the application in a single process on your server.

Review Logs

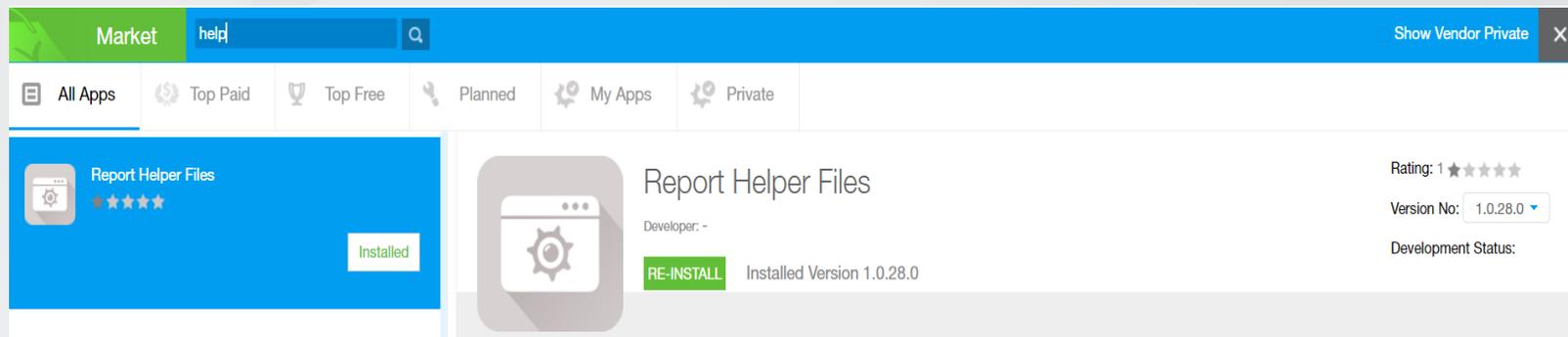
You will start seeing Installation Progress and Installation log will start displaying as per below screen.



You may log out and log in again as any user, using the Re-Login Button. If you face any problem during the installation, you can identify and resolve it with the help of the installation log. If you need any help from VIENNA Advantage, you can approach VIENNA Advantage Helpdesk through the Send Mail Button on the Log.

Verify Installed Application

The application which was appearing with an INSTALL tag now appears with INSTALLED Tag, indicating that it has been installed



This completes the installation of a new application/module.
You may Log Out and let other users log in again

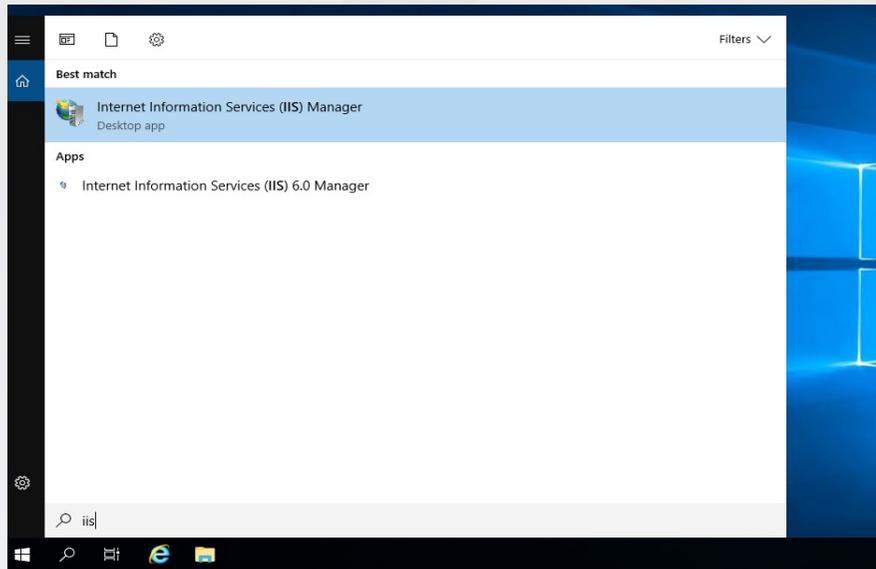
Troubleshooting Issues.

In case VIENNA Advantage link is not working after EC2 instance is created and running. Please refer troubleshooting sections below -

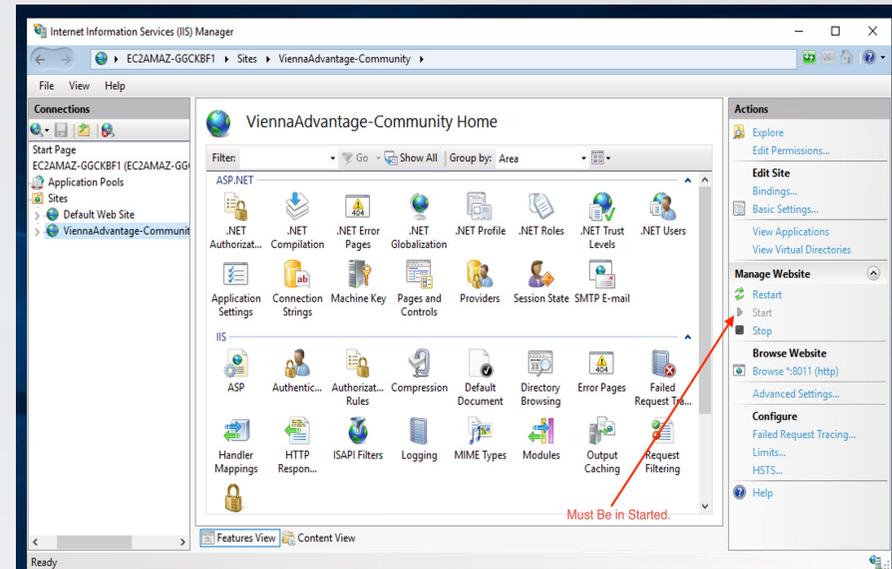
Note: Login into the EC2 via Remote Desktop (RDP) using Public IP of VM.

Issue 1: IIS or Website Is Down.

Open IIS Manager in window server.

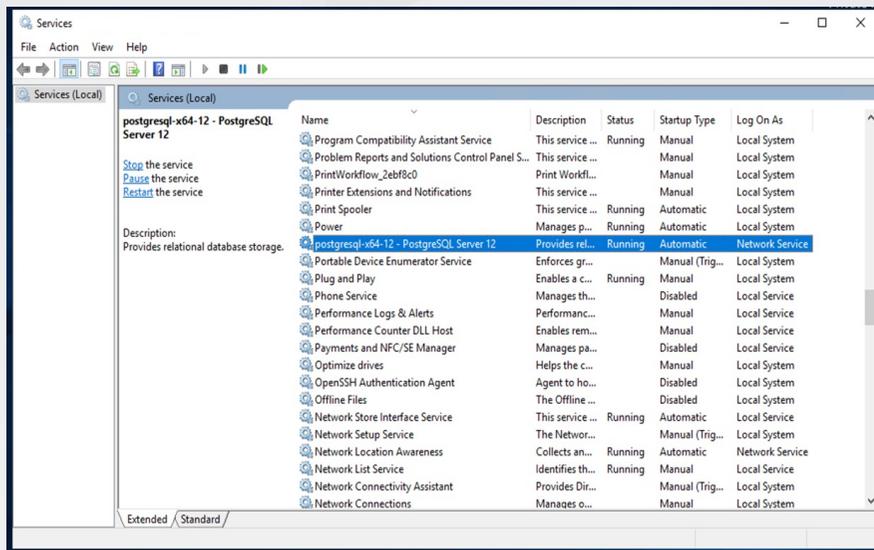


Stop/Start Website

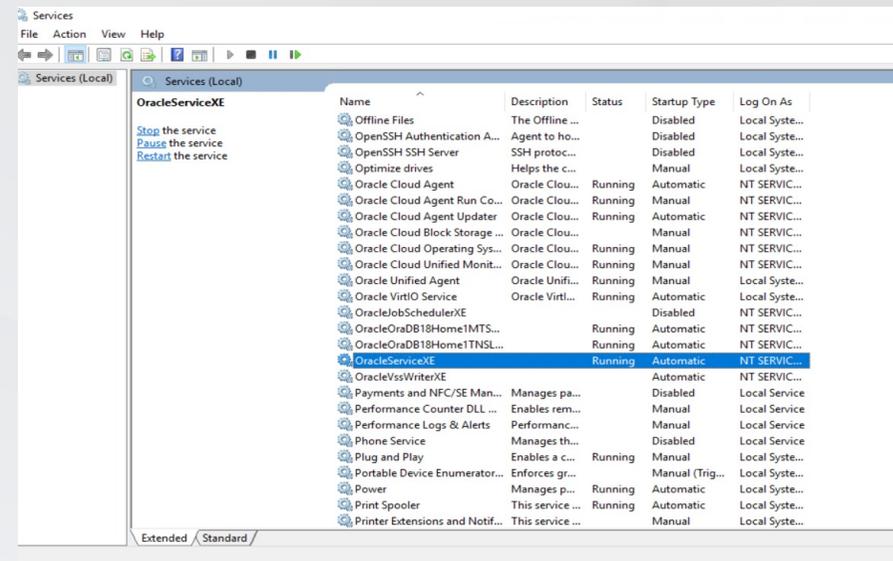


Issue 2: DB Services Down

If you are using VIENNA Advantage with PostgreSQL, Please check DB service is up and Running .



If you are using VIENNA Advantage with Oracle, Please check Oracle service is up and Running .



Thanks
