

# VIENNA Advantage

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Installation & Setup Guide

# Objective

The main objective of this document is to let the user understand the VIENNA Advantage installation process and the hosting configuration in a system. The VIENNA Advantage hosting configuration process is just like any normal software application installation in the system.

# Pre-requisites

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

- To use this document, you need the following:
  - ✓ A supported Microsoft Windows operating system installed and tested on your computer system or network.
  - ✓ Administrative privileges on the computer where you will be installing the application & database.
  - ✓ Knowledge of Installing & Managing RDBMS i.e., Oracle or PostgreSQL.

# Topics

## Topics covered in this guide:

- VIENNA Advantage installation process and hosting configuration
- Webserver configuration for VIENNA Advantage
- Database installation for VIENNA Advantage
- Post-installation tasks for VIENNA Advantage.

# Installation Checklist

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Use checklists to review system requirements, and to plan and carry out the installation. We recommend you use checklists as part of your installation planning process. Using a checklist ensures that your server hardware and configuration meets minimum requirements for this release and enables you to carry out a successful installation.

## **Server Hardware Checklist for the Installation**

Use this checklist to check hardware requirements for installing VIENNA Advantage & Database.

## **Operating System Checklist for Installation**

Use this checklist to check Windows OS requirements for installing VIENNA Advantage & Database.

## **Features & Database Checklist for Installation**

Use this checklist to check additional software's, features & Database requirements for installation

# Server Hardware Checklist

**Table 1-1 Server Hardware Checklist for VIENNA Advantage Installation**

Check	Task
<b>Server Make</b>	VIENNA Advantage can be installed on any machine running Windows OS. The Server can be a Physical Server or Virtual machine running on any cloud or VMWare environment
<b>System Architecture</b>	Processor: AMD64 and Intel EM64T
<b>Minimum RAM</b>	8 Gb or above
<b>Minimum CPU/vCPU</b>	On Physical Server i5 or above On VM 4 vCPU or above
<b>Storage</b>	At least 50Gb
<b>Network connectivity</b>	The Server connects with the internet to register the Application. Network access to the application link is required if connection to Vienna Advantage are to be made.

# Operating System Checklist

**Table 1-2 Operating System Checklist for VIENNA Advantage Installation**

Item	Task
<b>Operating System General Requirements</b>	<p>VIENNA Advantage is supported on the following operating system versions:</p> <ul style="list-style-type: none"><li>✓ Windows 10 x64 - Pro, Enterprise, and Education editions</li><li>✓ Windows 11 x64 - Pro, Enterprise, and Education editions</li><li>✓ Windows Server 2012 R2 x64 - Standard, Datacenter, Essentials, and Foundation editions</li><li>✓ Windows Server 2016 x64 - Standard, Datacenter, and Essentials editions</li><li>✓ Windows Server 2019 x64 - Standard, Datacenter, and Essentials editions</li><li>✓ Windows Server 2022 x64 - Standard, Datacenter, and Essentials editions</li></ul>

# Features & DB Checklist

Table 1-3 OS Features & Database Checklist for VIENNA Advantage Installation

Check	Task
<b>Web Browser</b>	Google Chrome browser
<b>.NET framework</b>	Microsoft .Net framework 4.8
<b>Web Server</b>	IIS version 7.0 or higher
<b>Database (RDBMS)</b>	VIENNA Advantage supports Oracle or PostgreSQL ✓ Oracle supported versions: 12cR2 (12.2.0.0) or Above ✓ PostgreSQL supported version 12.

# Required IIS Web Server Components/Role

## Web Server

### ✓ Common HTTP Features

- Default Document
- Directory Browsing
- HTTP errors
- Static Content

### ✓ Security

- Request Filtering
- Windows Authentication
- Basic Authentication

### ✓ Performance

- Static content compression
- Dynamic content compression

### ✓ Application Development

- .NET Extensibility 3.5
- .NET Extensibility 4.7
- Application Initialization
- ASP.NET 3.5
- ASP.NET 4.7
- ASP.NET
- ISAPI Extensions
- ISAPI Filters
- Server Side includes
- WebSocket Protocol

## Management Tools

- ✓ IIS Management Console
- ✓ Management Service

Follow below IIS Installation instruction as per your Windows OS and make sure all the above-mentioned components/role selected during installations.

- Window 8/10/11 :- [IIS Installation instruction](#)
- Window Server 2012/2019/2022 :- [IIS Installation instruction](#)

# Database Installation

**VIENNA Advantage framework supports 2 different RDBMS, and you can choose either Oracle or PostgreSQL.**

## 1) Oracle

- ✓ Oracle 12cR2 & 19c database versions are supported.
- ✓ Make sure Character set is AL32UTF8
- ✓ Make sure Database deferred segmentation is False before creating new user in database to import database file. (`alter system set DEFERRED_SEGMENT_CREATION = false;`)

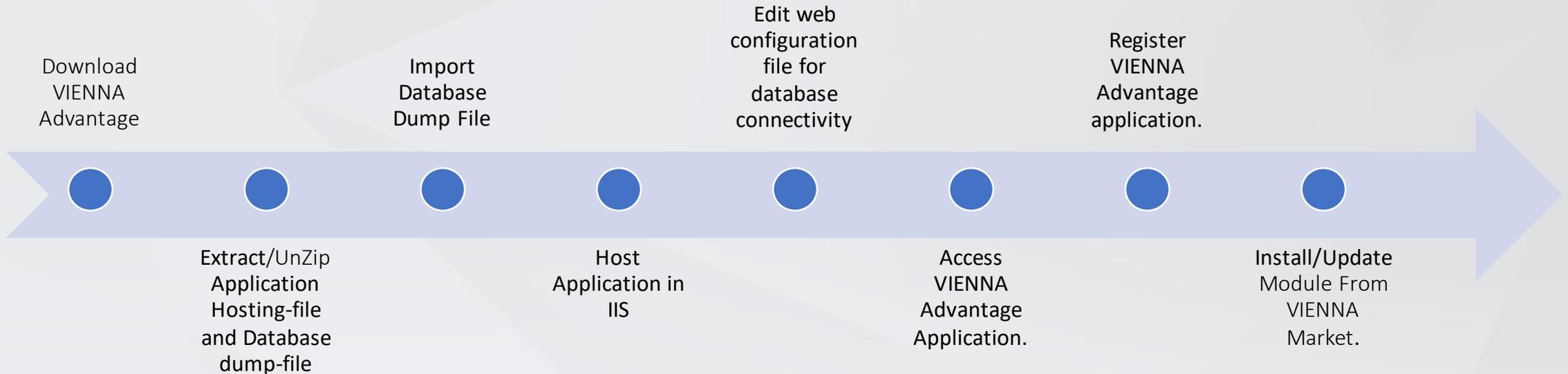
Reference Link: <https://www.oracletutorial.com/getting-started/install-oracle/>

## 2) PostgreSQL

- ✓ PostgreSQL 12 version is supported.
- ✓ Make sure Character set is UTF8 before creating new database
- ✓ Create new database and grant user permission on this database.

Reference Link: <https://www.postgresqltutorial.com/install-postgresql/>

# VIENNA Advantage Installation Steps



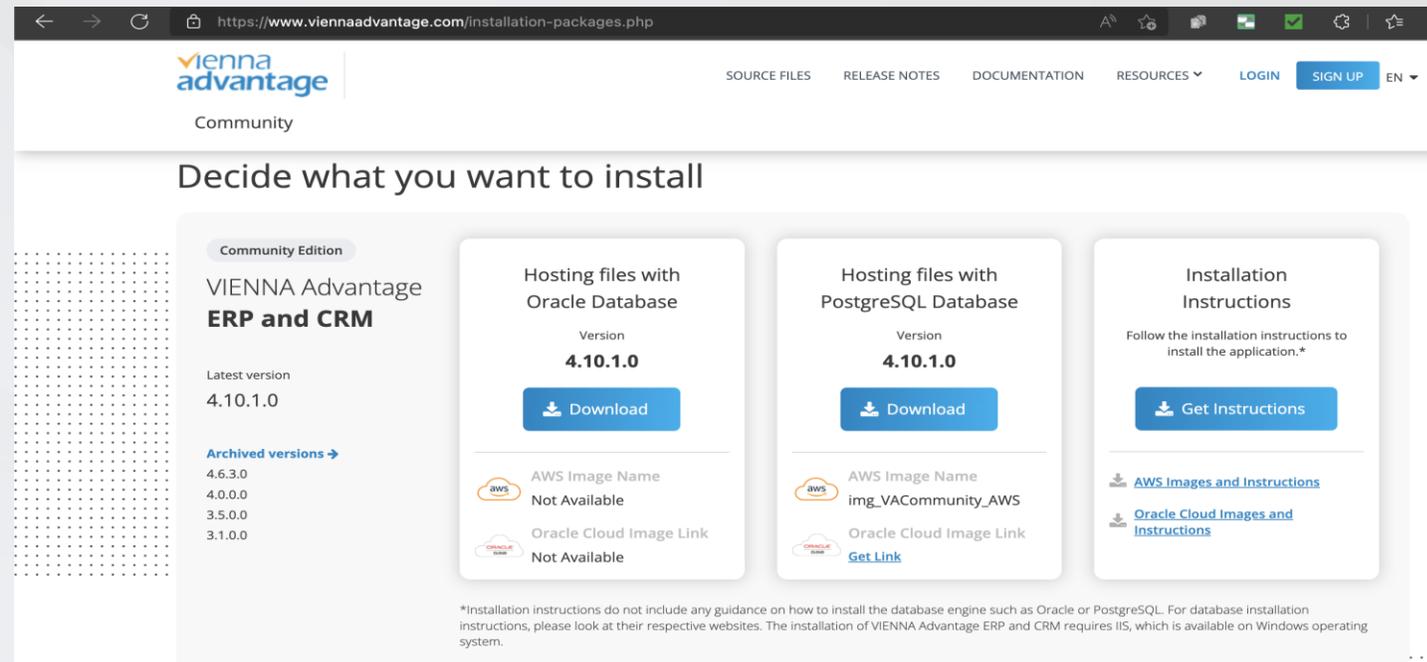
**Note:- Please follow the respective slide for each step.**

# Step 1 : Download VIENNA Advantage

**IIS 7.0 or Above is required to configure and run VIENNA Advantage Application.**

By using below link one can download VIENNA Advantage released packages.(Oracle or PostgreSQL).

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



The screenshot shows the 'Installation Packages' page for Vienna Advantage Community Edition. The page title is 'Decide what you want to install'. It features three main columns for installation options:

- Community Edition**  
VIENNA Advantage **ERP and CRM**  
Latest version: 4.10.1.0  
Archived versions: 4.6.3.0, 4.0.0.0, 3.5.0.0, 3.1.0.0
- Hosting files with Oracle Database**  
Version: 4.10.1.0  
Download button  
AWS Image Name: Not Available  
Oracle Cloud Image Link: Not Available
- Hosting files with PostgreSQL Database**  
Version: 4.10.1.0  
Download button  
AWS Image Name: img\_VACommunity\_AWS  
Oracle Cloud Image Link: Get Link
- Installation Instructions**  
Follow the installation instructions to install the application.\*  
Get Instructions button  
AWS Images and Instructions link  
Oracle Cloud Images and Instructions link

\*Installation instructions do not include any guidance on how to install the database engine such as Oracle or PostgreSQL. For database installation instructions, please look at their respective websites. The installation of VIENNA Advantage ERP and CRM requires IIS, which is available on Windows operating system.

# Step 2 : Extract Downloaded Package

1. Extract Downloaded Package file named

"VIENNA\_Advantage\_ERP\_CRM\_HTML5\_Version\_Oracle" (here we assume oracle files and download path "D:\Tmp\")

2. After Unzip, there are two folders in RAR file.

- ViennaAdvantageHTML5\_DB (it contains DB Dump File of application)
- ViennaAdvantageHtml5\_HostingFiles (it contains hosting file of application)

3. In our case final application hosting files as below and hosting file version is 5.0.0.

"D:\Tmp\VIENNA\_Advantage\_ERP\_CRM\_HTML5\_5\_0\_0\_Oracle\ViennaAdvantageHtml5\_HostingFiles\ViennaAdvantage"

Note:- One can also move the hosting file to other location as per requirement.

# Step 3 : VA Data Import - Oracle

Please follow below steps if you are going to use Oracle Database 12cR2 or above and not PostgreSQL.

## 1) Create VA User in Oracle

Connect to DB via SQLPLUS or SQL Developer with sys or system user and execute below commands.

(for pluggable database change to the appropriate container first for example using Oracle 19c: alter session set container = xepdb1)

```
SQL> alter session set "_ORACLE_SCRIPT"=true;
Result: Session altered.
SQL> create user USERNAME identified by PASSWORD;
Result: User created.
SQL> grant dba, connect, resource , create view to USERNAME;
Result: Grant succeeded.
SQL> alter user USERNAME default tablespace users;
Result: User altered.
SQL> conn USERNAME/PASSWORD
Result: Connected.
SQL> exit
```

## 2) Import Data in DB User Schema (Assuming you extracted to "D:\Temp" the oracle dump will be in "D:\Temp\VIENNA\_Advantage\_ERP\_CRM\_HTML5\_4\_6\_3\_Oracle\ViennaAdvantageHTML5\_DB\vacommunity.DMP" )

Open command prompt in administrator mode and execute below command to import VA Data in DB user

```
imp USERNAME/PASSWORD File='DB-Dump-File-Path.dmp' Full=y
```

Note: Please change USERNAME & Password in above commands as per your requirement

# VA Data Import - PostgreSQL

Please follow below steps if you are going to use PostgreSQL Version 12 only and not Oracle DB.

## 1) Create VA User in PostgreSQL

Connect to DB via PSQL or PGAdmin4 with `postgres` user and execute below commands.

```
postgres=# CREATE DATABASE DBNAME;
```

```
Result: CREATE DATABASE
```

```
postgres=# CREATE USER USERNAME WITH ENCRYPTED PASSWORD PASSWORD;
```

```
Result: CREATE ROLE
```

```
postgres=# GRANT ALL PRIVILEGES ON DATABASE DBNAME TO USERNAME;
```

```
Result: GRANT
```

```
postgres=# Exit
```

## 2) Import Data in created database

Open command prompt in administrator mode and execute below command to import VA Data in database

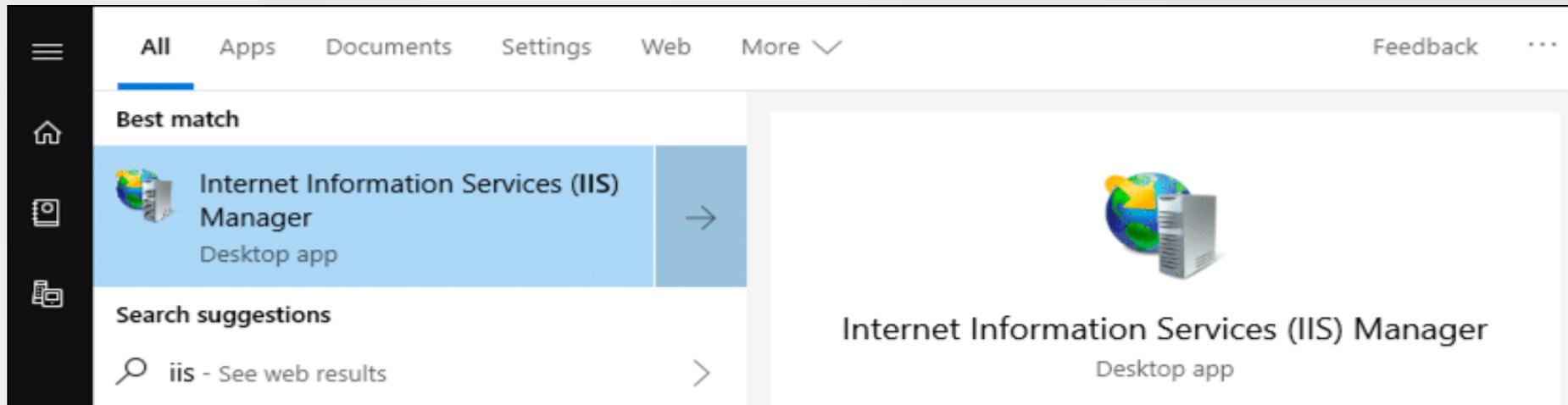
```
psql -U USERNAME DBNAME < "DB-Dump-File-Path.sql"
```

Note: Please change DBNAME, USERNAME & Password in above commands as per your requirement

# Step 4 : VA Website Hosting in IIS

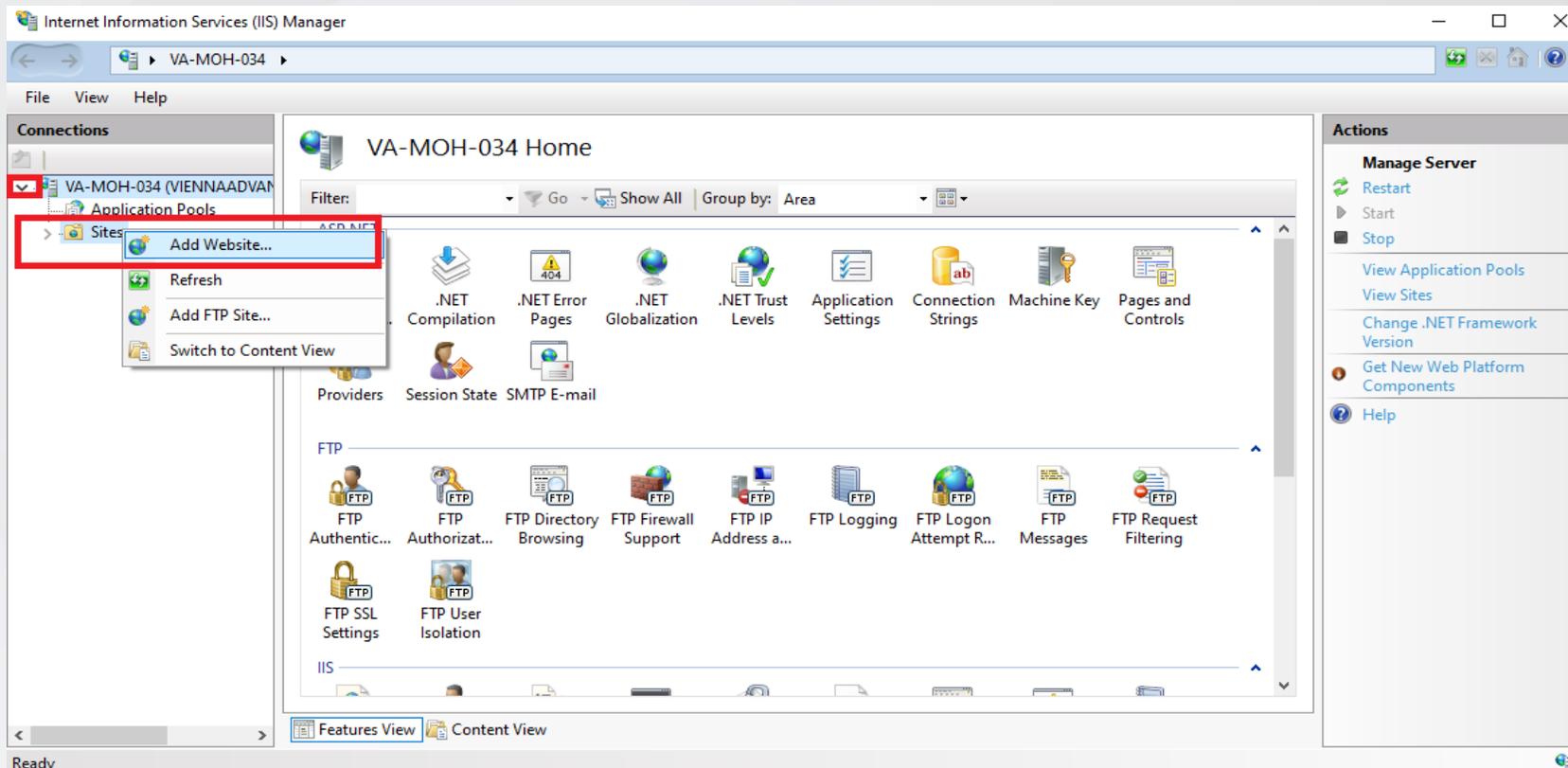
Open IIS Manager to host VIENNA Advantage files in IIS server

Goto Start >> Windows Administrative Tools >> Internet Information Service (IIS)



# Add VA Website in IIS

Right click on “Sites” and Select “Add Website”



# Website Name & Physical Path

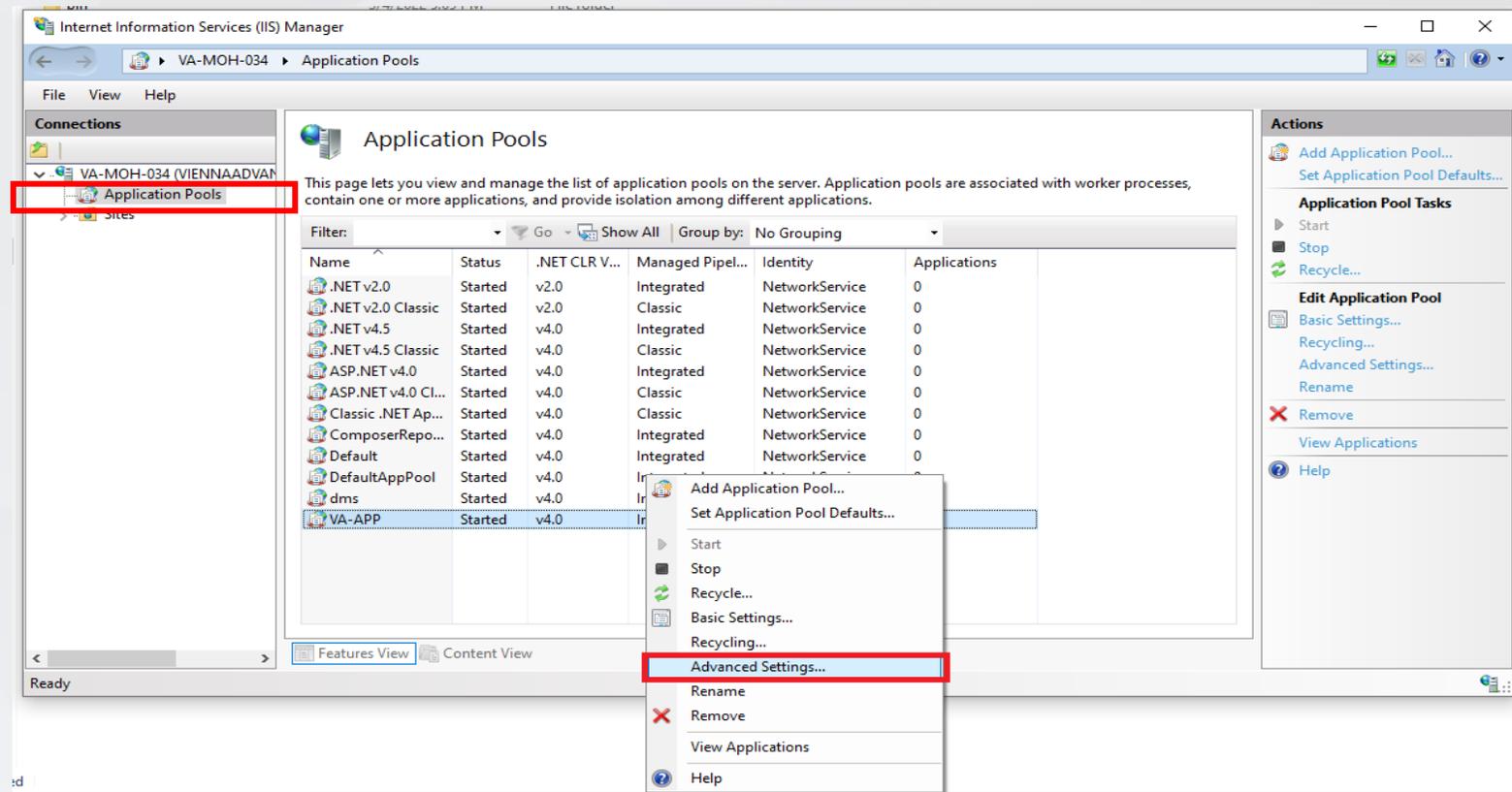
- 1) **Site Name:** Enter Name as "VA-APP" (you can enter any name)
- 2) **Physical Path:** Browse the location where Vienna Advantage downloaded application files are extracted.
- 3) **Binding:** Select type as http, and Port where you want run this website. Please make sure that port is open on firewall and accessible via internet.
- 4) Check/Enable Start Website Immediately box.
- 5) Please refer screenshot for more details and click OK

The screenshot shows the 'Add Website' dialog box with the following configuration:

- Site name:** VA-APP
- Application pool:** VA-APP
- Physical path:** D:\inetpub\wwwroot\ViennaAdvantage\_HostingFiles
- Binding Type:** http
- IP address:** All Unassigned
- Port:** 8080
- Start Website immediately:**

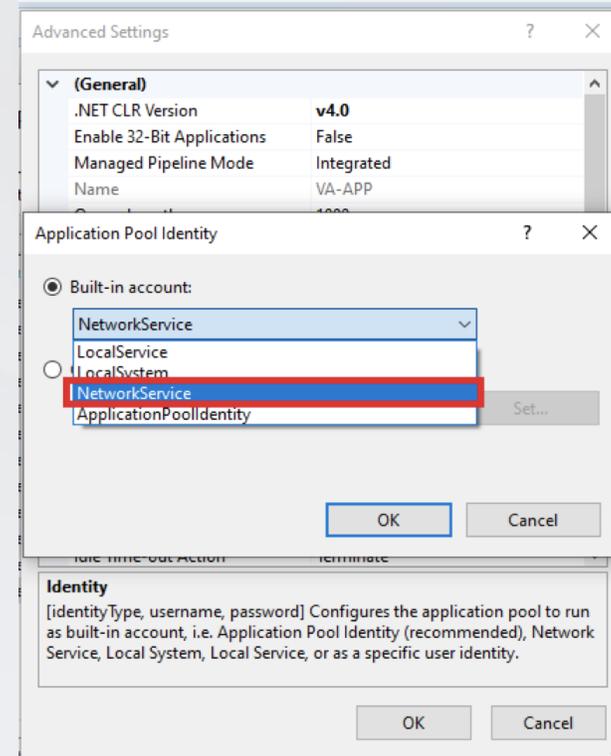
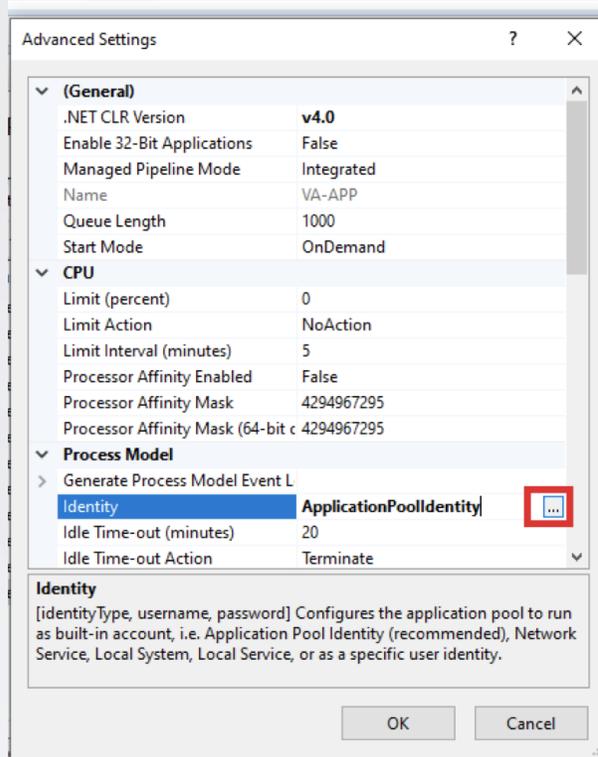
# Setup Application Pool

Click on **Application Pool** then Right click on corresponding application pool (same name as website name) and select **Advance settings**.



# Update Identity Settings

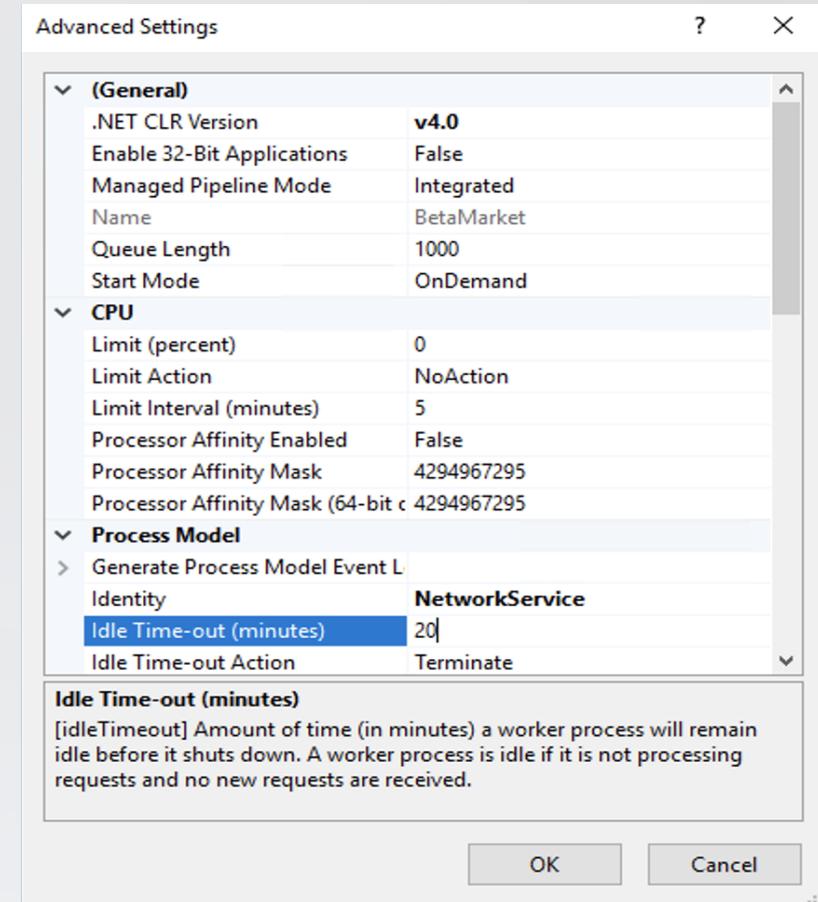
Update **Identity** settings by clicking **button(...)**  
select **Network Services** under **Build-in Account** and **click OK**.



# Advanced Settings changes

Please verify and update below settings under Advance Setting window.

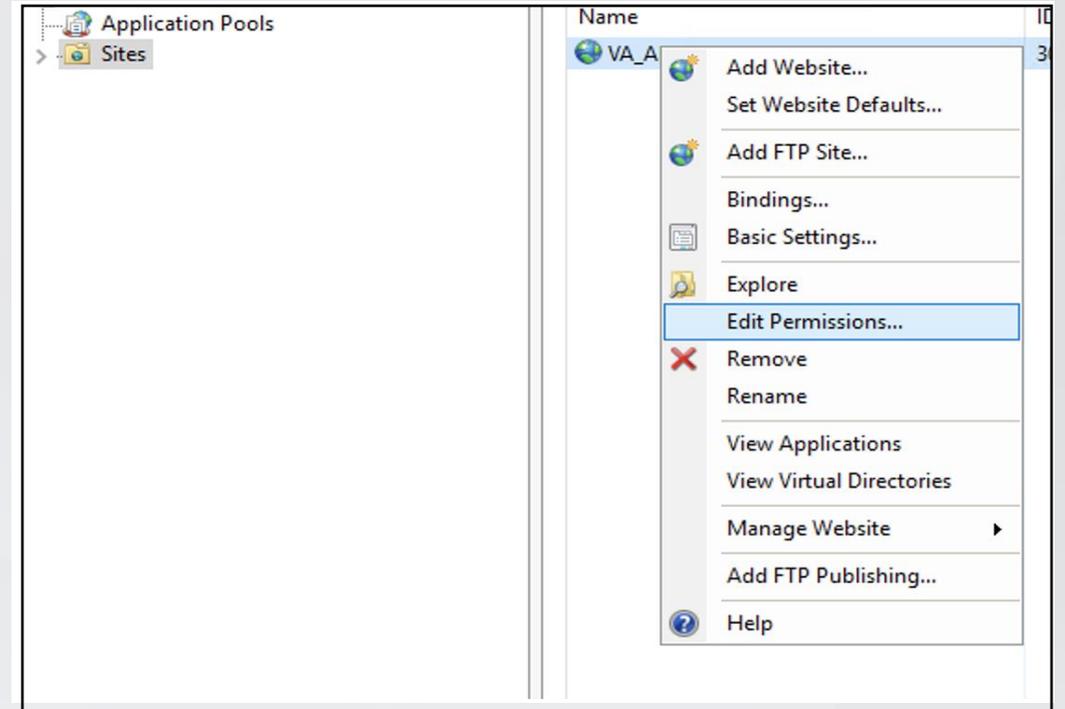
- 1) Set .NET CLR Version to Framework base version to v4.0.
- 2) Set idle time out  $\geq 20$
- 3) Click OK



# Edit Website Permissions

Please verify and update below settings under Advance Setting window.

- 1) Go to **Sites** on left pane
- 2) Right click on the website and choose 'Edit Permissions'.
- 3) Give Full Control access to 'Network Service' and 'IUSR'.
- 4) Click OK



# Step 5 : Update web.config

Go to the physical location where VIENNA Advantage application is located and Open web.Config file in notepad for edit **database connection string**.

Update below **highlighted** entries in web.config as per your environment and Database information

## Oracle DB web.config Changes

```
<add key="oracleConnectionString" value="Data Source=(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)(HOST=localhost)(PORT=1521)))(CONNECT_DATA=(SERVER=DEDICATED)(SERVICE_NAME=orcl));User Id=USERNAME;Password=PASSWORD" />
```

## PostgreSQL DB web.config Changes

```
<add key="postgresqlConnectionString" value="Server=localhost;Port=5432;MaxPoolSize=100;SearchPath=public;UserId=USERNAME;Password=PASSWORD;Database=DBNAME" />
```

**Note:** In the above example we have used default *Port*, and *Service\_Name* or *Server* as per Oracle & PostgreSQL, Please update these values according to DB configuration in your environment.

# Step 6 : Access VIENNA Advantage Internally

To access VIENNA Advantage Application internally please open Google Chrome Browser.

Type IP address with port# in browser as below  
<http://ipaddress:port/>

## **VIENNA Advantage Application Login Details**

### **System Administrator's credentials**

username: System

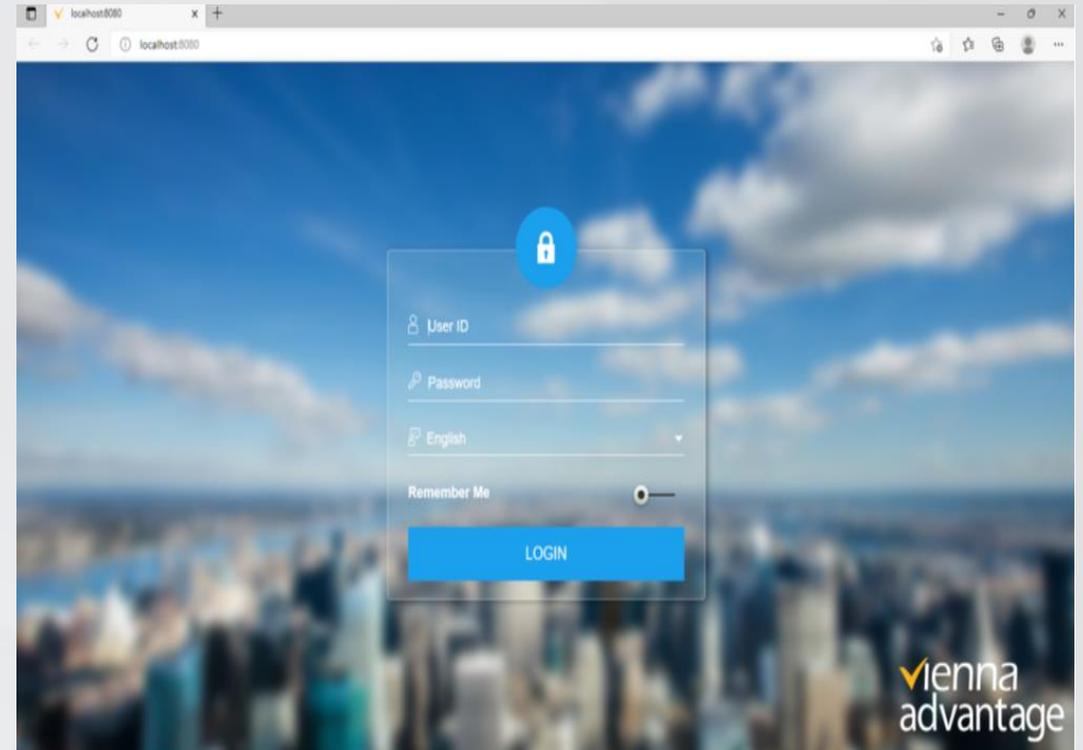
user password: System

### **Demo Tenant credentials**

Demo username: IdeasIncAdmin

Demo user password: IdeasIncAdmin

Demo company name: Ideas Inc



# Access VIENNA Advantage Externally

Vienna advantage application can access externally using Public IP and port. To open a port in the Windows Firewall using PowerShell, follow these steps:

1. Open the PowerShell console with administrative privileges by typing "powershell" in the Start menu search bar. right-click on the PowerShell icon and select "Run as administrator."
2. Run the following command to list all the available firewall rules: **Get-NetFirewallRule**
3. To create a new firewall rule to open a specific port, run the following command: **New-NetFirewallRule -Name "RuleName" -Protocol TCP -LocalPort "PortNumber" -Action Allow**  
Replace "RuleName" with the desired name for the firewall rule and "PortNumber" with the desired port number.
4. To enable the firewall rule, run the following command: **Enable-NetFirewallRule -Name "RuleName"** Replace "RuleName" with the name of the firewall rule you just created.
5. To access VIENNA Advantage Application internally please open Google Chrome Browser.
6. Type Public IP address with port# in browser as below <http://publicipaddress:port/>

# Step 7 : Register VIENNA Advantage

- 1) After Successful login into VIENNA Advantage application, System will be prompted to enter Key.
- 2) If user deployed application based on Project. Then they must ask for key to Vienna Advantage Support team or their manager.

or

In case, User wants to use Community key to activate VIENNA Advantage applications. They must follow next slide and get Community key from VIENNA Advantage Community portal.

Enter Key

vienna advantage

Re new your key

[or]

Enter Professional Key

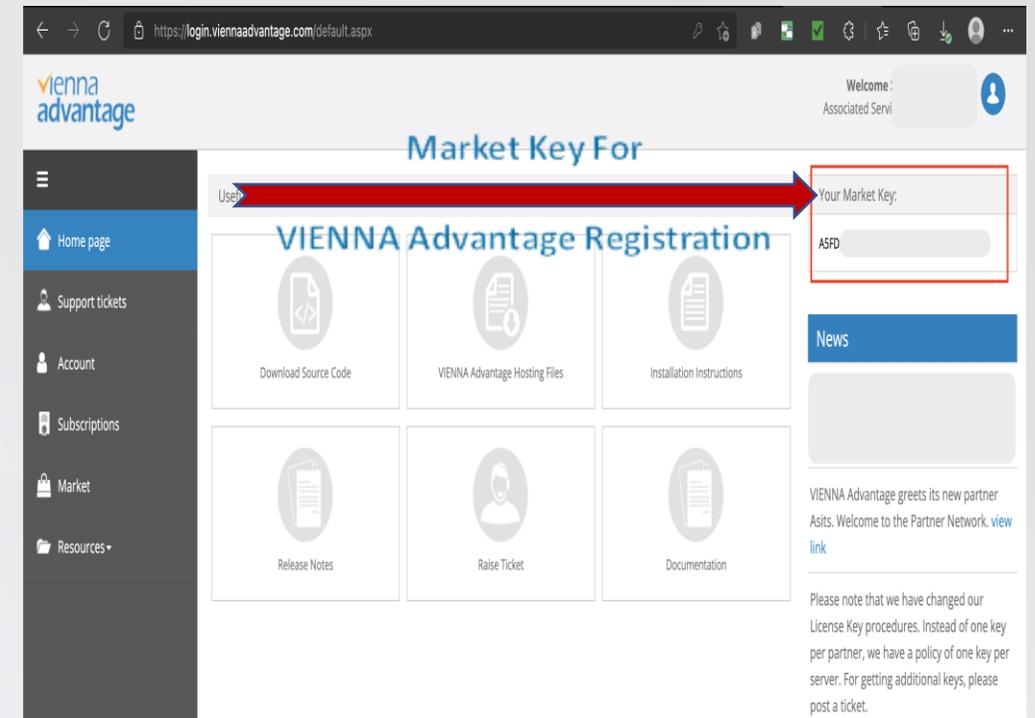
Validate

# 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 login 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.



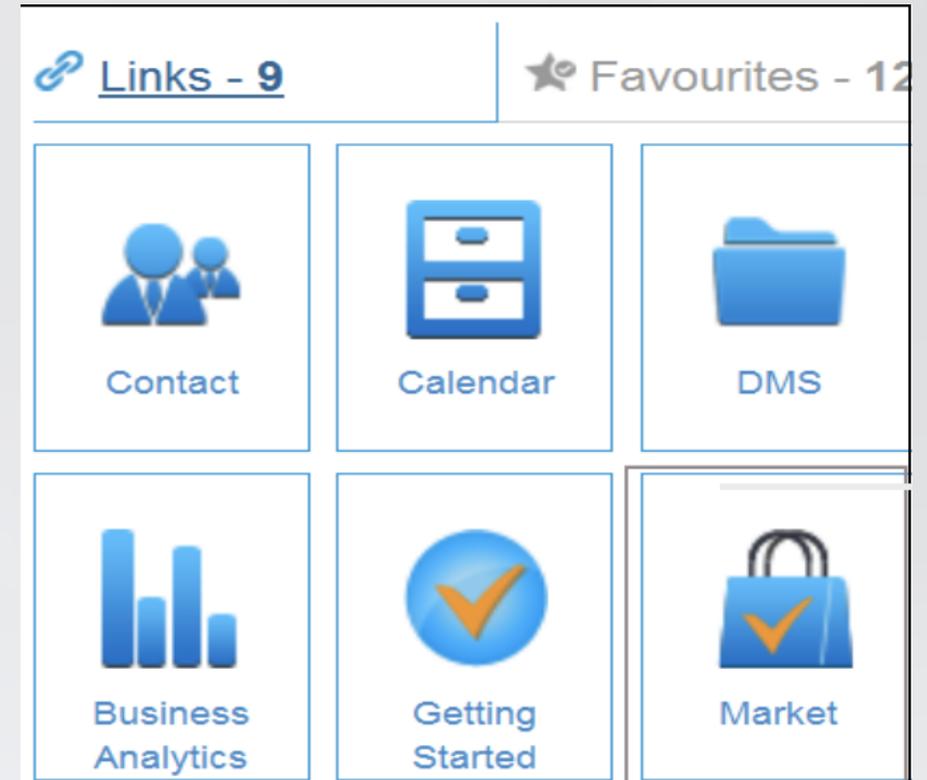
# About Market

VIENNA Advantage, Market is a single repository for application modules. You can update 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 user: **System** and Role: **System Administrator** to install application modules 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 right hand side of the Home page. 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, One can see another screen which displays information of all the modules available in the Market. These modules 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 module as follows



# Standard 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 Standard

VIENNA Advantage Material  
Management

VIENNA Advance  
Pricing

UOM Pricing

Tax Type

Payment Management

Bank Statement

Product management

Inventory Count

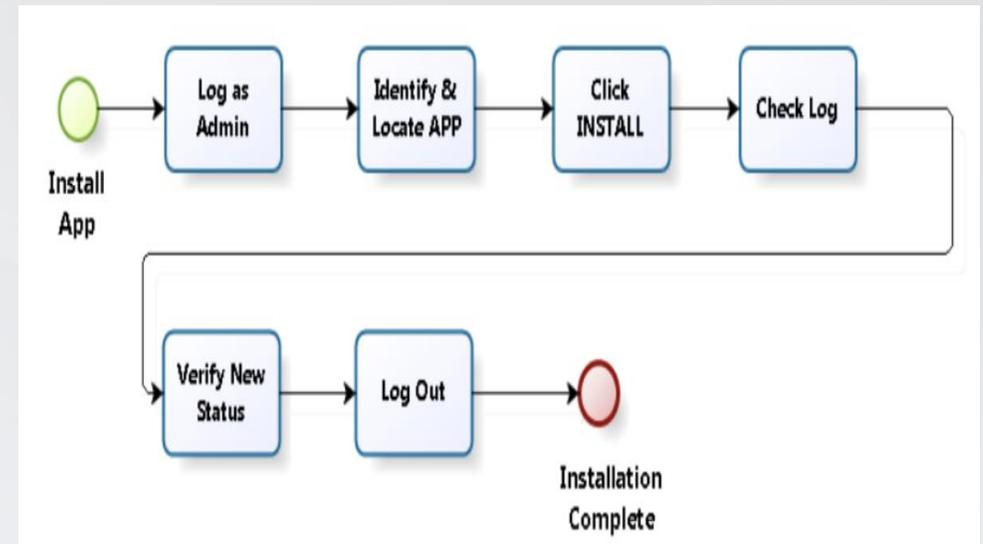
VA Reports

# Key Points Before Installation

**Please note that It is advisable that all existing users are disconnected from VIENNA Advantage while installing or updating any module from market.**

To install module from VIENNA Advantage Market, you must have system rights

- ✓ Go through the latest release note of the Module
- ✓ Identify and locate the module to be installed
- ✓ Click on Install – installation progresses and a log is displayed
- ✓ Check the log to indicate completion of installation process
- ✓ Verify the status of the module to confirm that it has been installed
- ✓ Install Language package(optional)
- ✓ Log Out and resume normal operations



# Modules Release Note

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You should always go through the release note of modules before you are going to install any Module from the market. The Release Note Link is given below.

[Latest Release Notes](#)

# Identify & Locate Modules

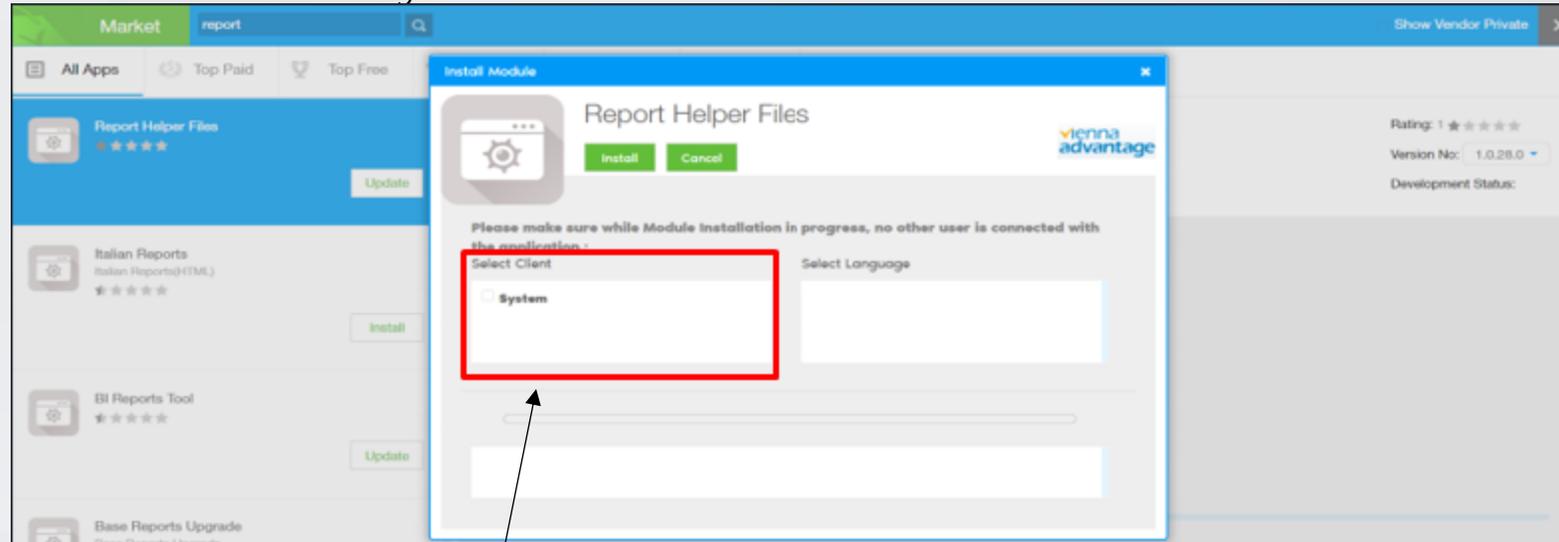
1. VIENNA Advantage Market gives you search option where you can type and search for modules which you want to Install or update.
2. In below steps we are taking as example the Report Helper Files. Similarly, you can follow these steps for other Modules too.
3. Type “Report” in search option – system returns the following screen

The screenshot displays the Vienna Advantage Market interface. At the top, a search bar contains the text 'report'. Below the search bar, there are navigation tabs: 'All Apps', 'Top Paid', 'Top Free', 'Planned', 'My Apps', and 'Private'. The main content area shows a card for 'Report Helper Files' with a rating of 1 star and a version number of 1.0.28.0. A red box highlights the 'Update' button and the 'Installed Version 1.0.27.0' text. Another red box highlights the 'Version No' dropdown menu showing '1.0.28.0'. A third red box highlights the search bar. Arrows point from these red boxes to yellow callout boxes: 'Module Search' points to the search bar, 'Install/Update' points to the 'Update' button, 'Installed version' points to the 'Installed Version 1.0.27.0' text, and 'Available Version' points to the 'Version No' dropdown menu.

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

# Install/Update Modules

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



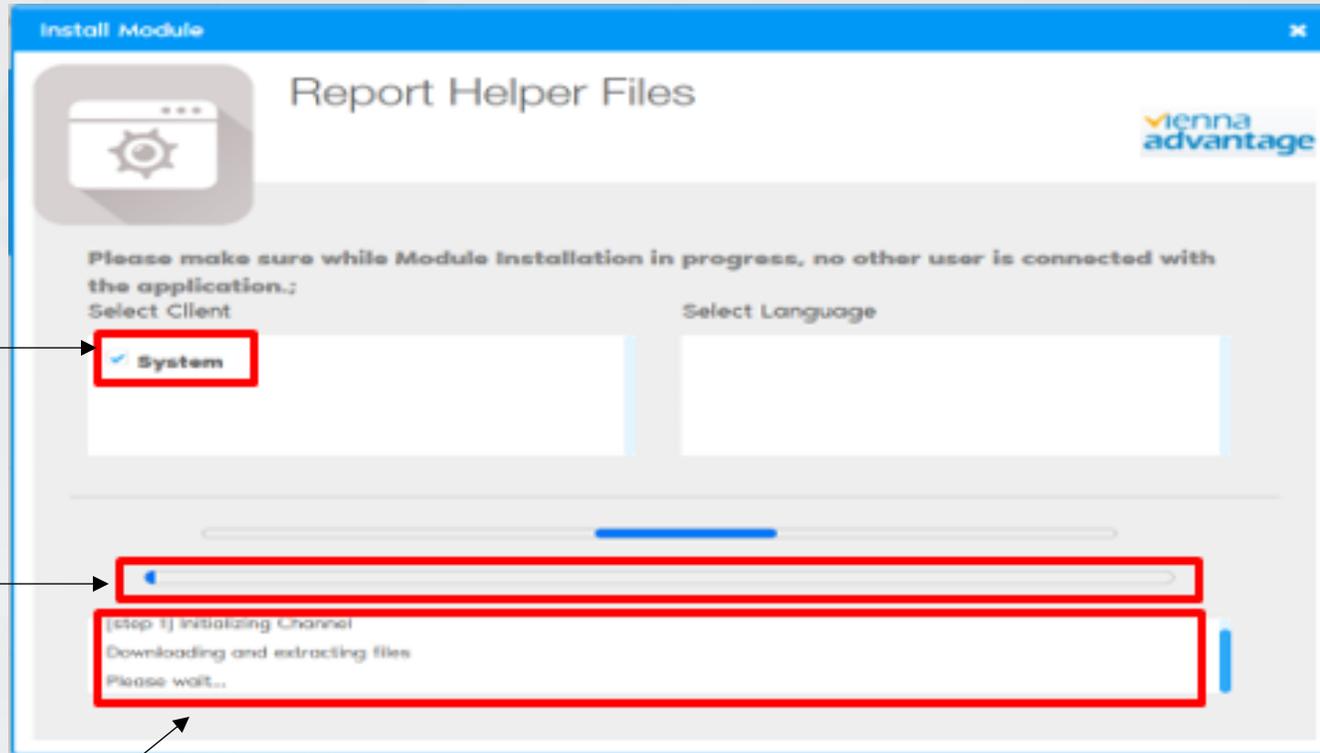
**Tenant**

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

# Install/Update Modules

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

Tenant

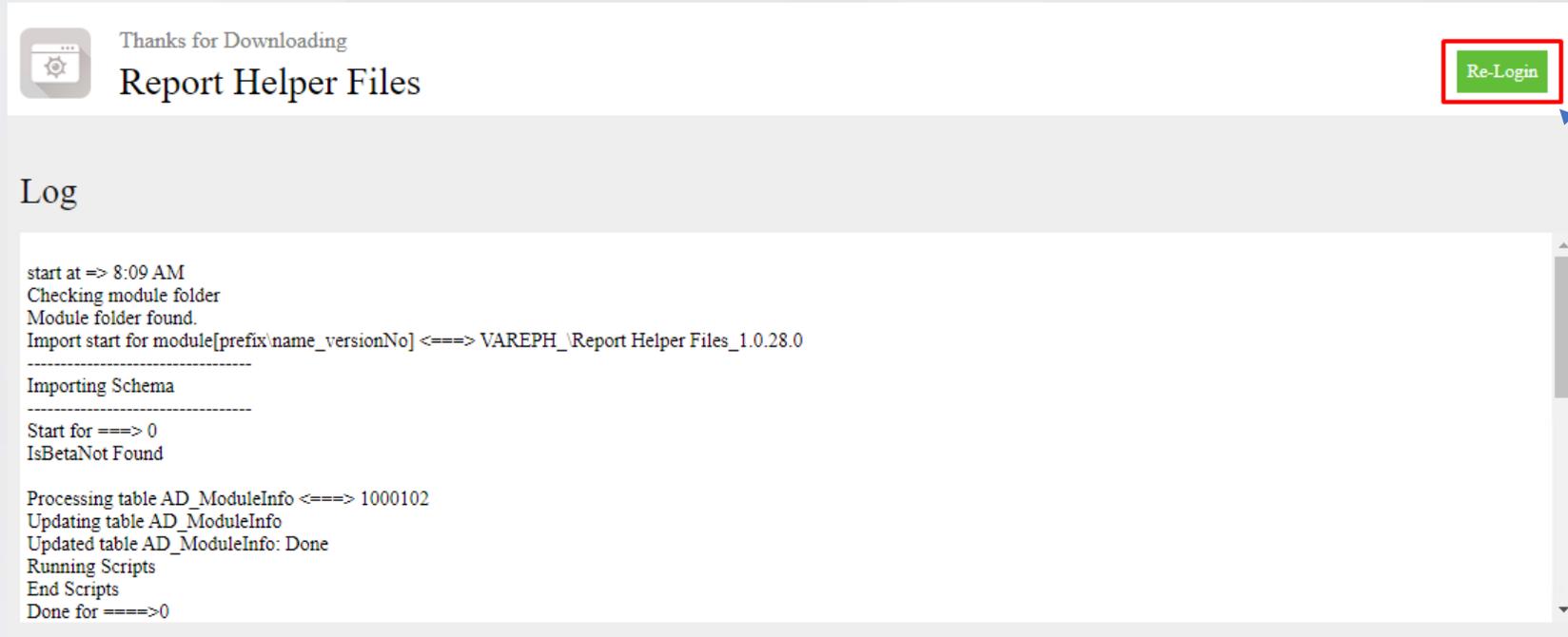


Progress bar

Module Installation/Update Log

# Review Logs

Once Module is installed, System will show the final log as shown below.



Thanks for Downloading  
Report Helper Files

Re-Login

Log

```
start at => 8:09 AM
Checking module folder
Module folder found.
Import start for module[prefix\name_versionNo] <====> VAREPH_\Report Helper Files_1.0.28.0
-----
Importing Schema
-----
Start for ==> 0
IsBetaNot Found

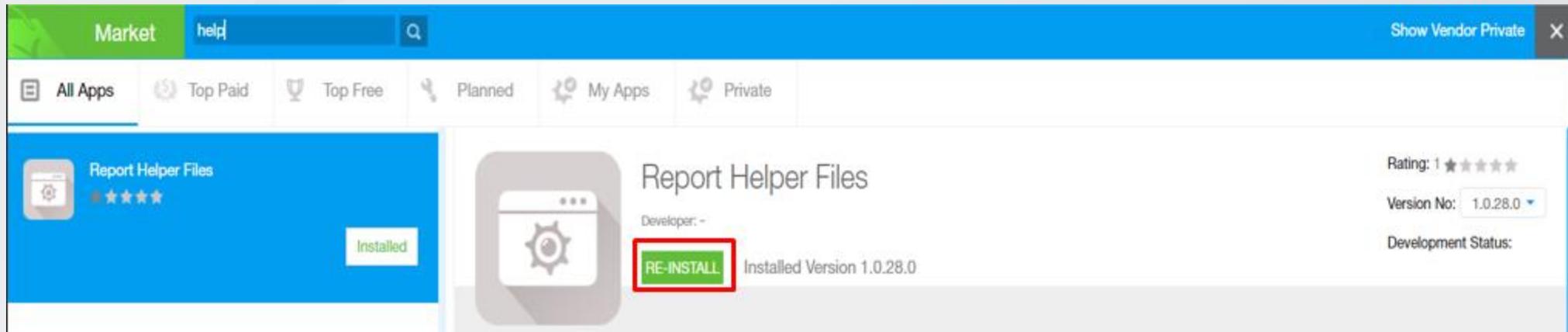
Processing table AD_ModuleInfo <====> 1000102
Updating table AD_ModuleInfo
Updated table AD_ModuleInfo: Done
Running Scripts
End Scripts
Done for ==>0
```

Re-login Button

**Note:-** It is recommended to copy the logs and save it in a notepad or text file. In case you encounter any problems during the installation process, You can easily identify and resolve any installation issues that may arise or you can seek assistance from the VIENNA Advantage Helpdesk for further support.

# Verify Installed Modules

The module which was appearing with an **INSTALL** or **UPDATE** tag now appears with **RE-INSTALL** Tag, indicating that it has been installed



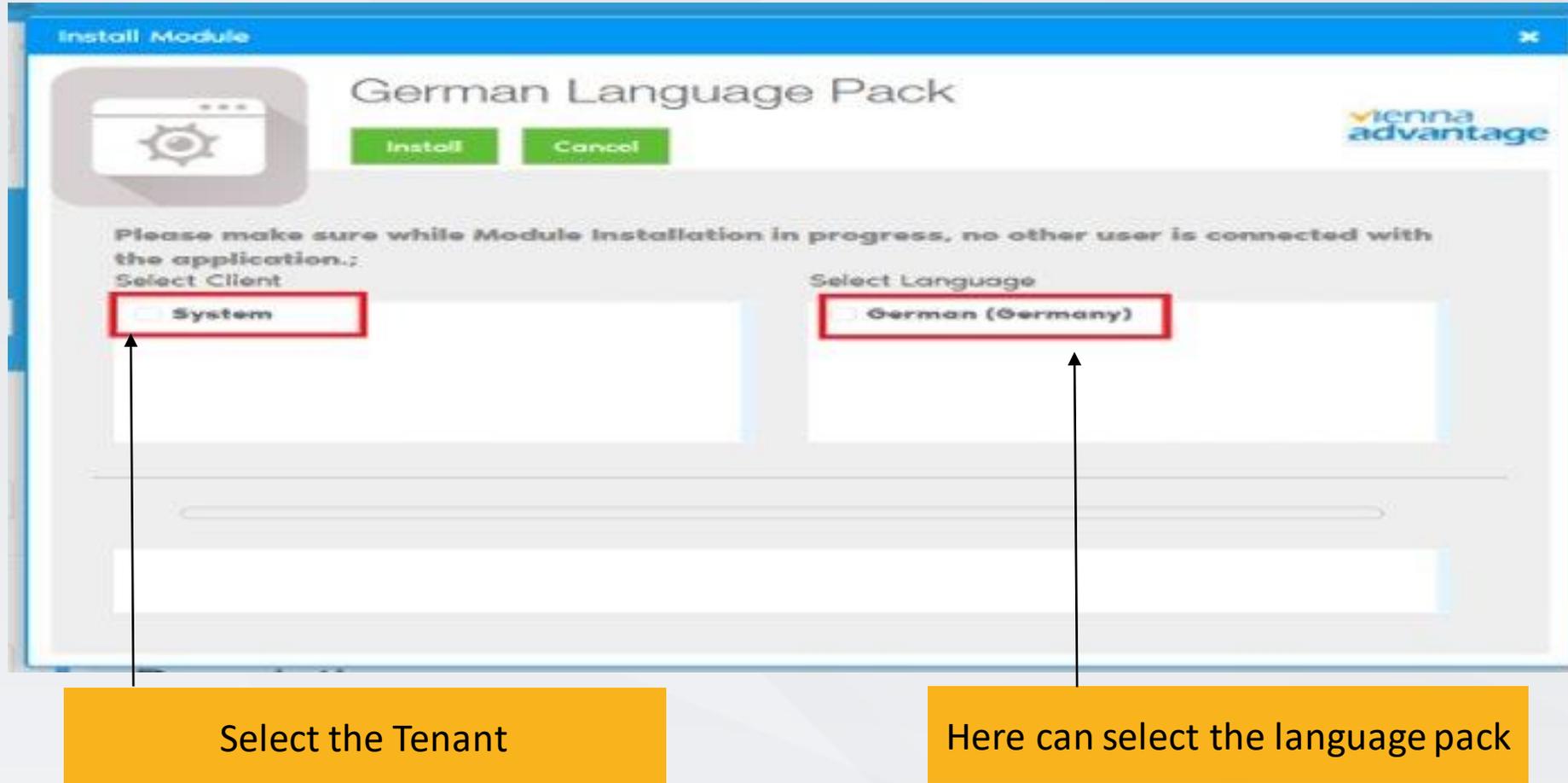
This completes the installation of a new module.

# Language pack

Vienna Advantage is a multi-lingual application. User can run the application in different language and Vienna market give the option to install new language pack in the system. By Installing new language pack in the system facilitates the user to login with new language and experience the interface (UI) in new language including all window, tab, fields, forms, label and all system messages. It enhanced the accessibility for users who prefer to work in their native languages other than the default English language.

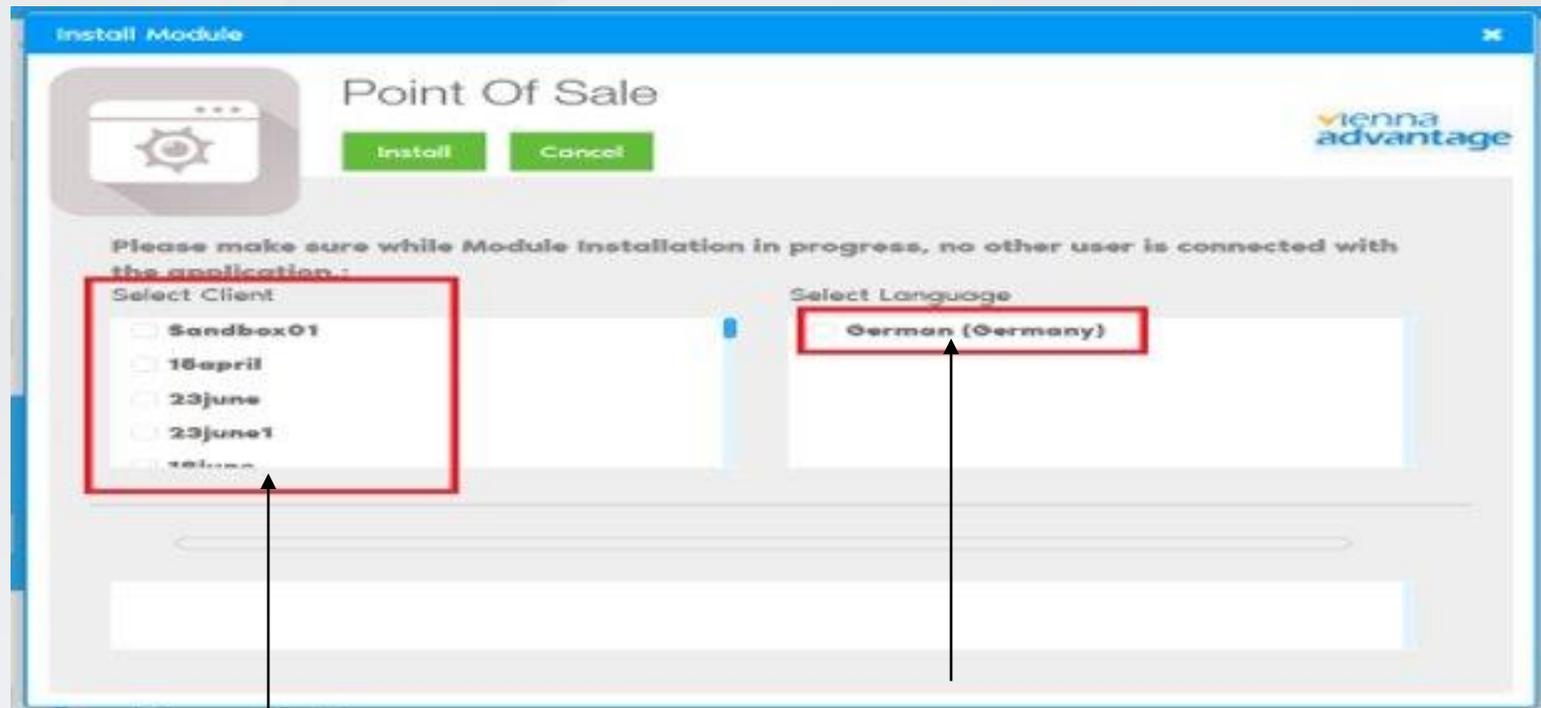
# Install Language Pack

1) As we installed the module, in the same way can install Language Pack



# Module Update – Install Module with Language pack

There is an option in market to release new module with language pack. So, if any module is released with single or multiple language pack, then system will show all the language pack in right selection box under label "Select Language". So at the same time user can install module and language pack in the system.



Select the Tenant

Here can select the language pack

# Thanks

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