**Manage Engine Application Manager Prerequisites,Instalation and Configuration.**

**https://www.manageengine.com/products/applications\_manager/applications-manager-comparison.html**

The performance of Applications Manager depends considerably on the CPU and memory of the system. The following table describes the recommended configuration of the system running the product.

1. Up to 250 monitors (with medium load on the monitored servers)

| **Operating Platform** | **Processor Speed** | **Memory** | **Hard Disk Space Required** |
| --- | --- | --- | --- |
| Windows / Linux | 1.4 GHz | 2 GB RAM | 20 GB |

1. b) 250 - 1000 monitors - Enterprise Edition Setup (One Admin & 2-3 Managed Servers) Per Managed Server/Admin Server

| **Operating Platform** | **Processor Speed** | **Memory** | **Hard Disk Space Required** |
| --- | --- | --- | --- |
| Windows / Linux | 1.8 GHz | 2 GB RAM | 40 GB |

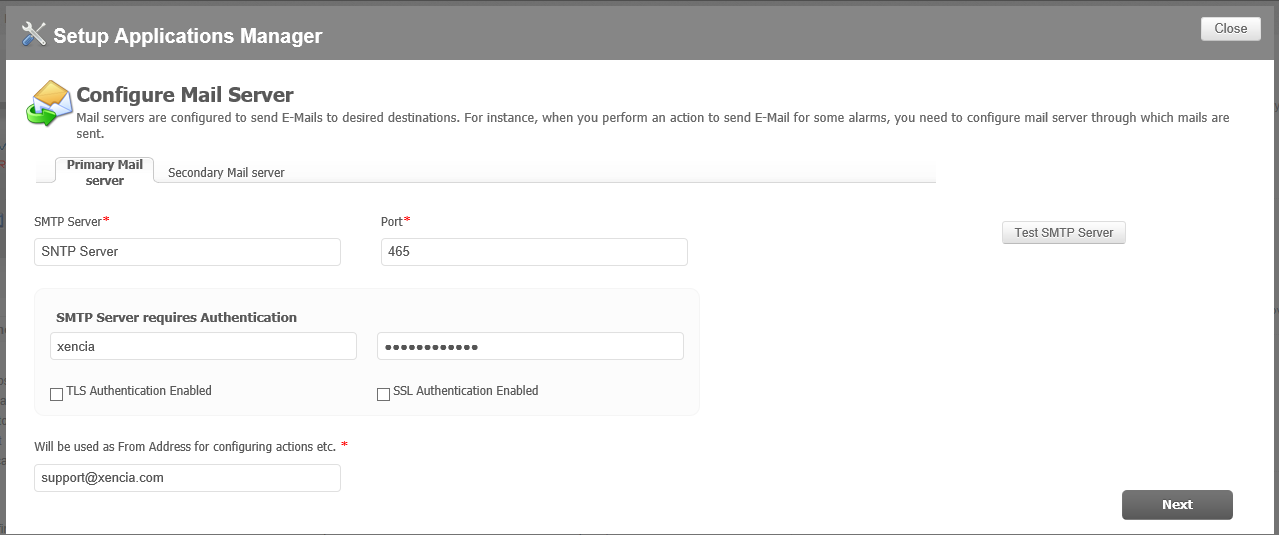
1. c) 1000 monitors & above - Enterprise Edition Setup (One Admin & 4 Managed Servers and above) Per Managed Server/Admin Server

| **Operating Platform** | **Processor Speed** | **Memory** | **Hard Disk Space Required** |
| --- | --- | --- | --- |
| Windows / Linux | Dual processor 1.8 \* 2 GHz | 2 GB RAM - Managed Server | 100 GB or higher based on monitors |

1. \* If the number of Managed Servers are high, 4 GB RAM for the Admin Server is recommended.

| **Features** | **Free** | **Professional** | **Enterprise** |
| --- | --- | --- | --- |
| Out-of-the-box support for 100+ applications | Supports monitoring up to 5 apps or servers. There is no time limit on the free edition - you can use it forever. | Supports integrated performance monitoring for a heterogeneous set of applications. Ideal for small to medium enterprises. | Supports large deployments with its distributed monitoring capability. Ideal for large enterprises. |
| Price | Free | Starts @ $945 for 25 monitors | Starts @ $9,595 for 250 monitors |
| * Server Monitoring | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| Monitor open source apps & servers | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| Monitor commercial apps & servers | https://www.manageengine.com/products/applications_manager/images/table-tick.png (For Five Monitors) | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| * Application Server Monitoring | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| * Database Monitoring | MySQL, Oracle, MS SQL, PostgreSQL, Memcached, Cassandra, MongoDB and Redis. | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| * Website / Web Services Monitoring | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| SLA Management | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| Exchange Server Monitoring | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| * Virtualization monitoring | VMware Monitoring Only | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| * Cloud monitoring | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| WebSphere MQ Series monitoring | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/addon.png | https://www.manageengine.com/products/applications_manager/images/addon.png |
| MS Office SharePoint monitoring | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/addon.png | https://www.manageengine.com/products/applications_manager/images/addon.png |
| AS400 monitoring/ iSeries | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/addon.png | https://www.manageengine.com/products/applications_manager/images/addon.png |
| * ERP monitor | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/addon.png | https://www.manageengine.com/products/applications_manager/images/addon.png |
| * End user monitoring (EUM) | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/addon.png | https://www.manageengine.com/products/applications_manager/images/addon.png |
| Web transactions monitoring for J2EE and .Net (APM Insight) | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/addon.png | https://www.manageengine.com/products/applications_manager/images/addon.png |
| Dependency mapping | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/addon.png | https://www.manageengine.com/products/applications_manager/images/addon.png |
| Web transactions monitoring for Ruby on Rails(APM Insight) | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| Integration with Site 24x7 | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| URL monitoring/multi-step URL sequence monitoring | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| User administration, network discovery, custom dashboards | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| ServiceDesk Plus Integration | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| Anomaly detection | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| Admin tools: Downtime scheduler, Trap Listener, Scheduling, enabling, disabling reports. | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| Updates and patches | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| Technical support | E-mail Support (30 days) | https://www.manageengine.com/products/applications_manager/images/table-tick.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| Failover support | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| High scalability | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| Distributed architecture | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/cancel.png | https://www.manageengine.com/products/applications_manager/images/table-tick.png |
| Supported Operating Systems for Installation | Windows, Linux | Windows, Linux | Windows, Linux |
| Price | Free | Starts @ $945 for 25 monitors | Starts @ $9,595 for  250  Monitors |

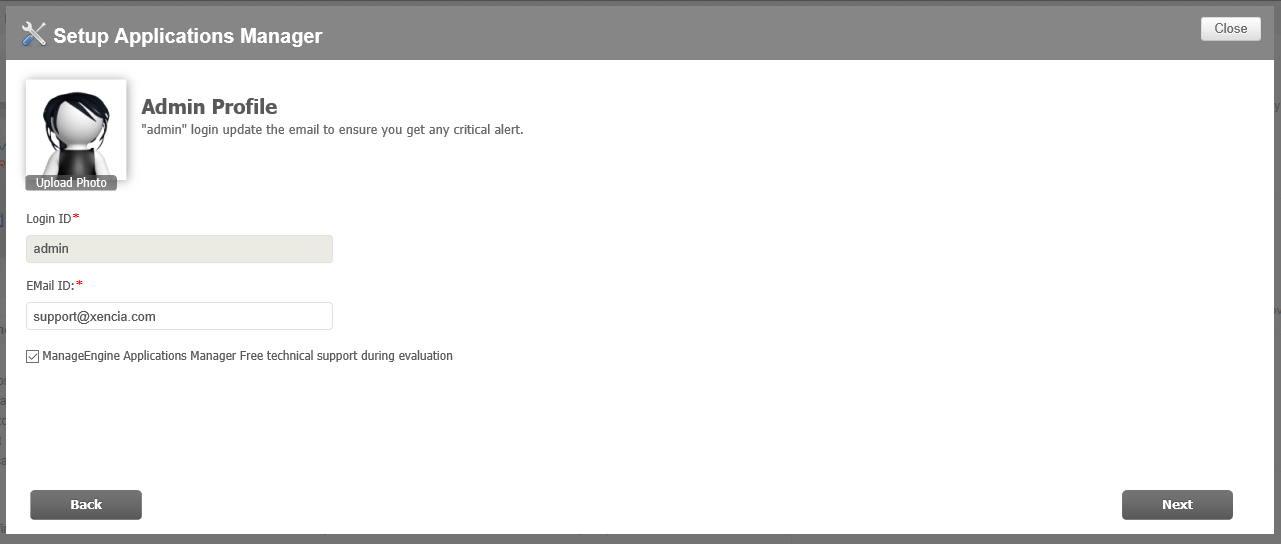
Installation is Direct Step.

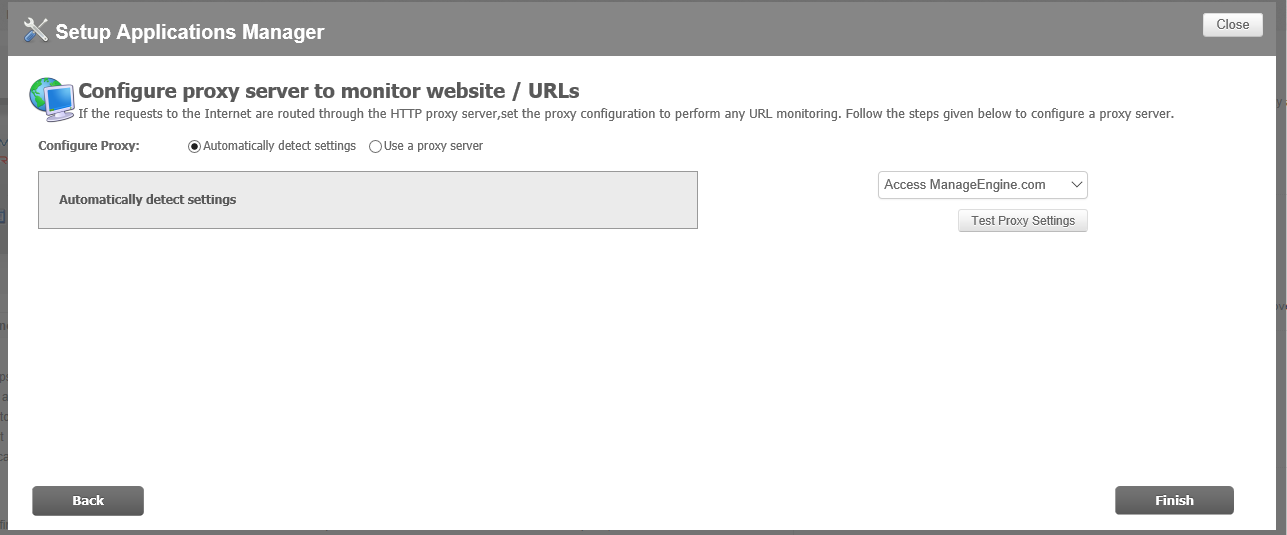


SNTP Authentication:

Username: xencia

Password: Xencia@12345

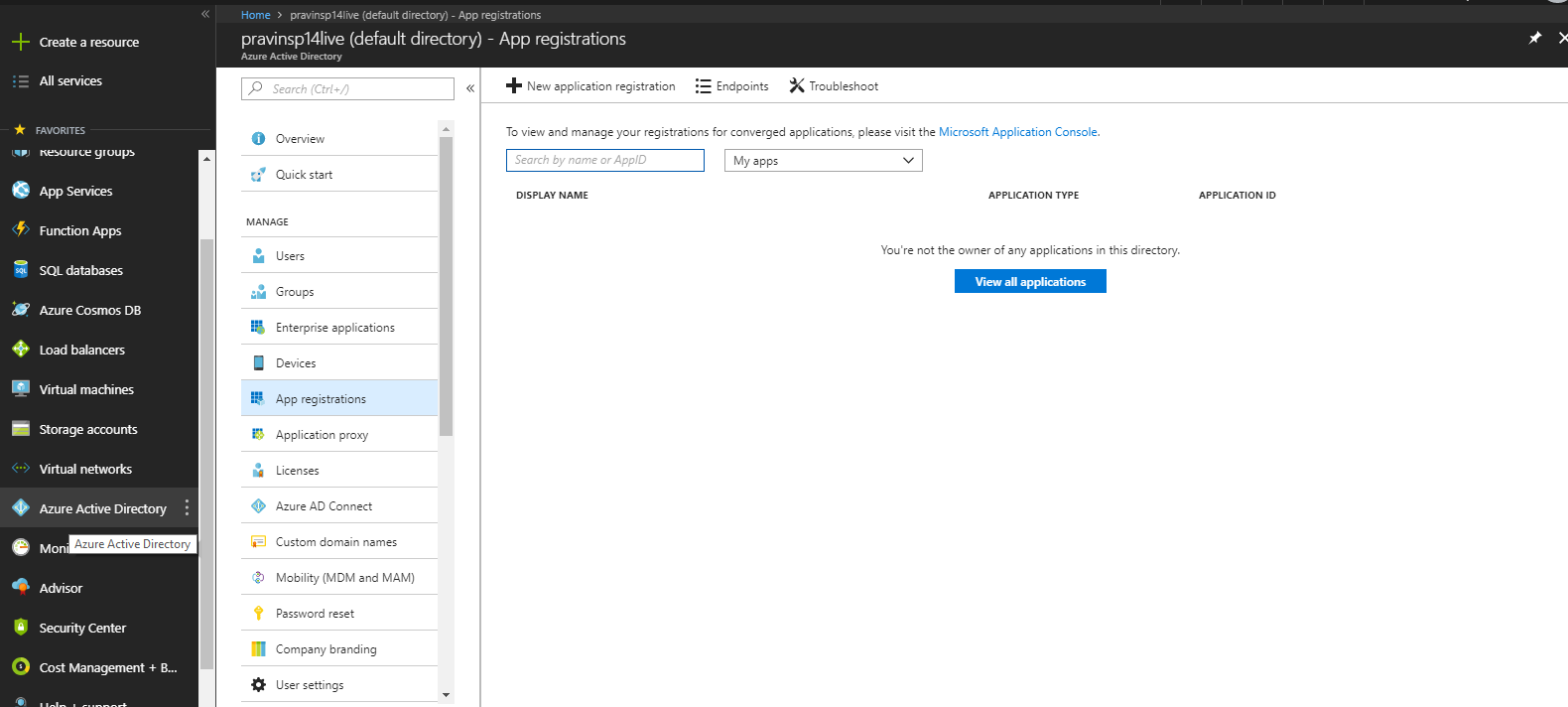




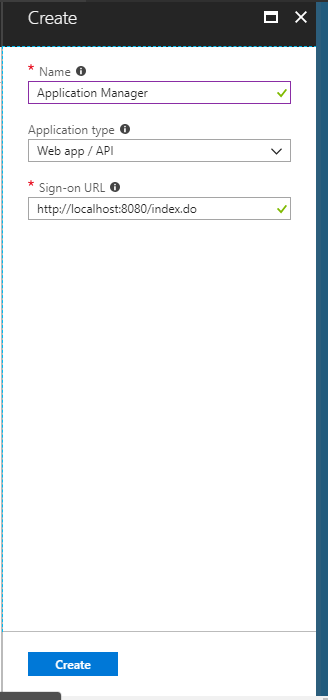
Create Active Directory Application

* Log in to Azure Portal(https://portal.azure.com) using the credentials of Microsoft account (@outlook.com or @live.com) using which the subscription was created.
* Select ‘Azure Active Directory’ from the left pane
* Select ‘App registrations’
* Select ‘Add’
* Provide a name & URL for the application (Sample Sign on URL to use:

https://apm-apmtester.msappproxy.net )

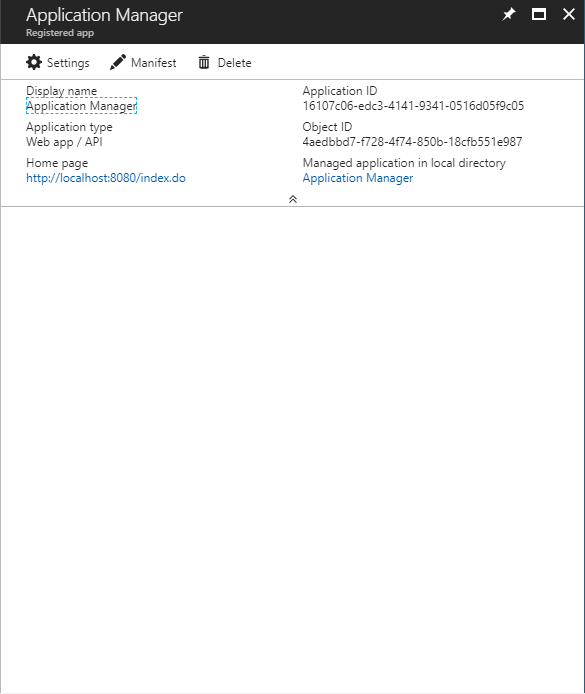
* Click create.

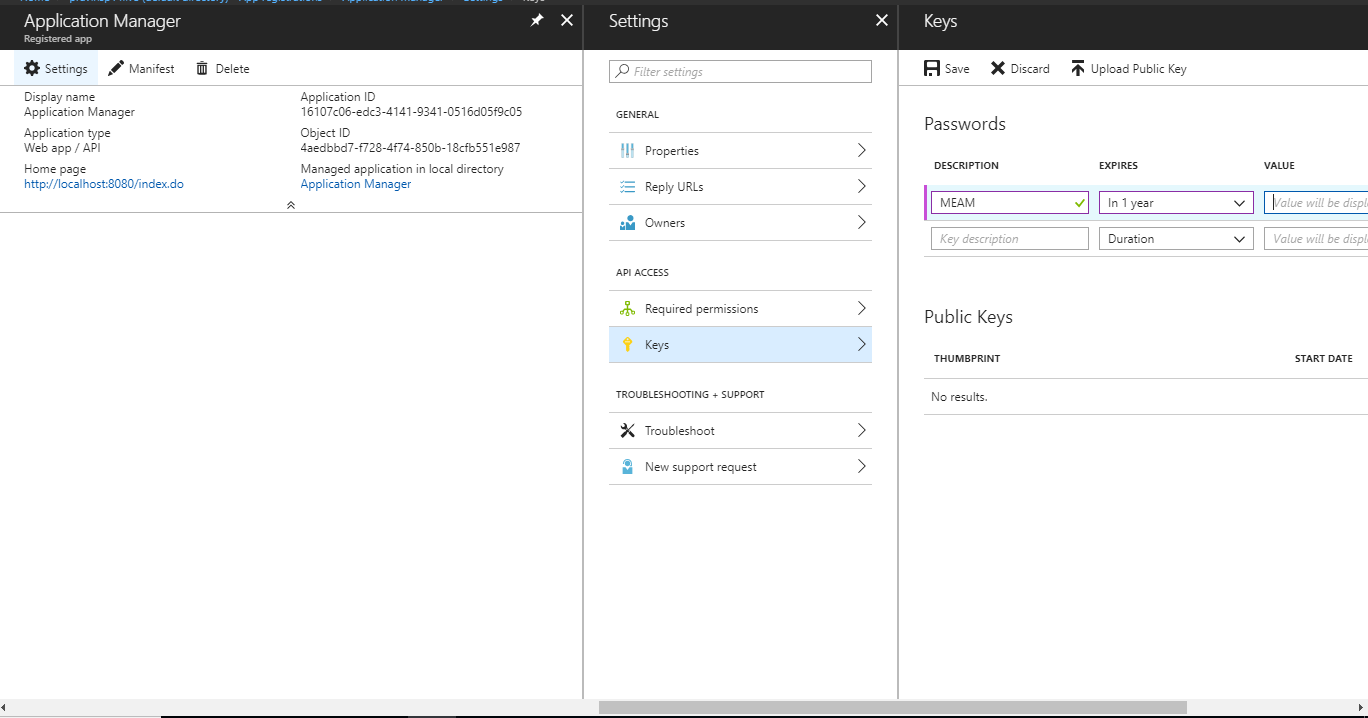
Click on New Application Registration and fill the details.

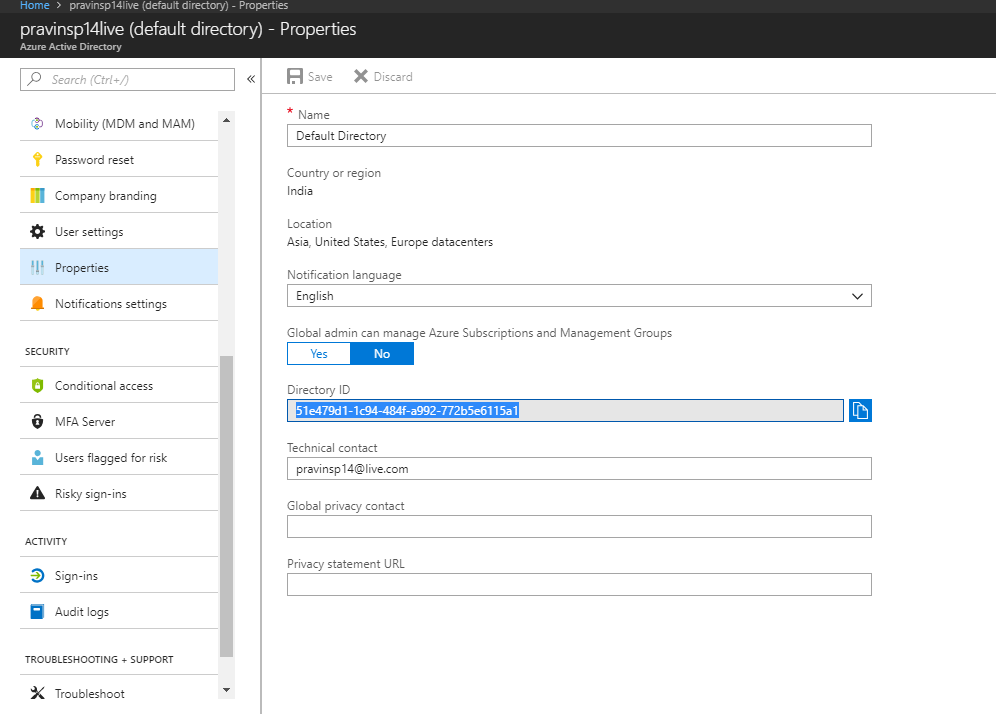


Getting Client ID, Tenant ID & App Key

* Select ‘Azure Active Directory’ from the left pane
* Select ‘App registrations’ → Select your application
* Copy the value given as ‘Application ID’. This is your Client ID
* To get App Key select the Application Manager and click on Settings and select ‘Keys’
* Give description and duration of the key. When done, give ‘Save’
* Store the value of the key that is displayed. This is your App Key
* Go to ‘Azure Active Directory’ → Properties

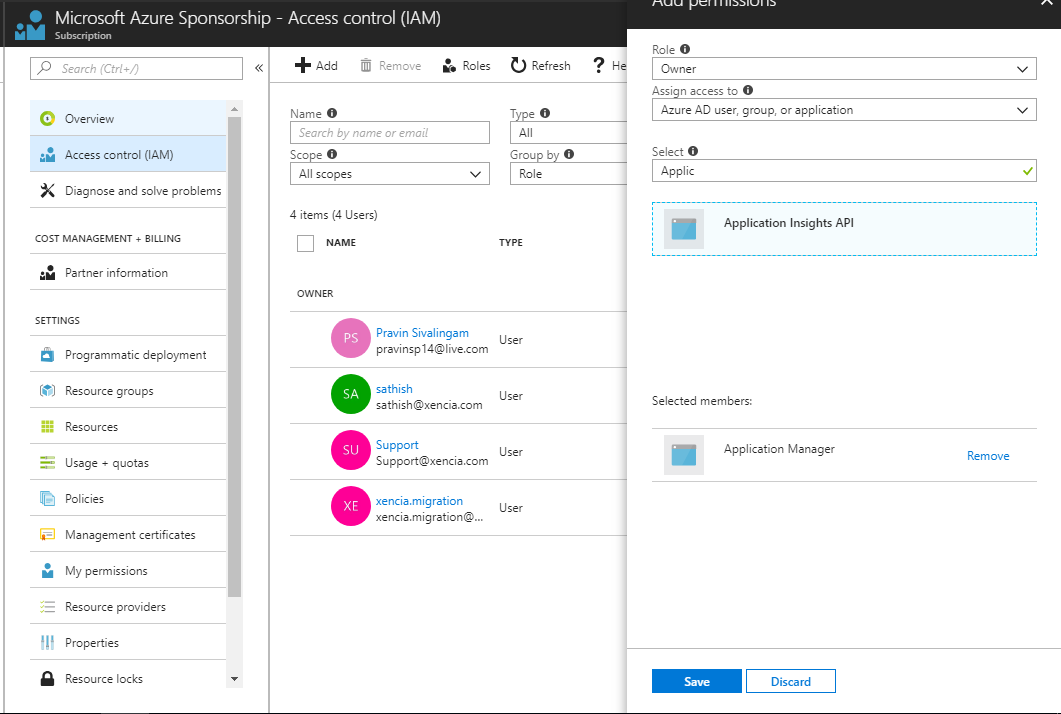
Copy the value given as ‘Directory ID’. This is your Tenant ID 





Assign a role to the application

* Select ‘Subscriptions’ from the left pane
* Select ‘Access Control(‘IAM’)
* Select ‘Add’
* Select the role as ‘Owner’
* Search for your application and select it
* Select OK to finish assigning the role



Provide the Client ID, Tenant ID and App key in the New monitor page of Applications Manager.

Steps to be done on Applications Manager Server

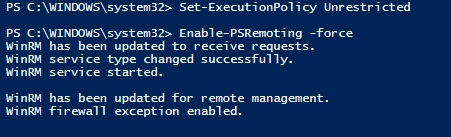
1. Enabling Power shell Remoting (To collect metrics by remoting into Azure VMs)

Open Power shell prompt with Administrator privileges

Run the following commands,

#To configure Windows PowerShell for remoting, type the following command.

* Enable-PSRemoting -force





#Configure the Trusted Hosts setting so that app manager can trust the connections from other servers.

* Set-Item wsman:\localhost\client\trusted hosts \*



#To increase the maximum number of concurrent shells that a user can remotely open).

* Set-Item WSMan:\localhost\Shell\MaxShellsPerUser -value 25 -WarningAction SilentlyContinue



To set idle timeout value for sessions: Determines how long the session stays open if the remote computer does not receive any communication from the local computer, including the heartbeat signal. When the interval expires, the session closes:

* Set-Item WSMan:\localhost\Shell\IdleTimeout -value 60000 -WarningAction SilentlyContinue

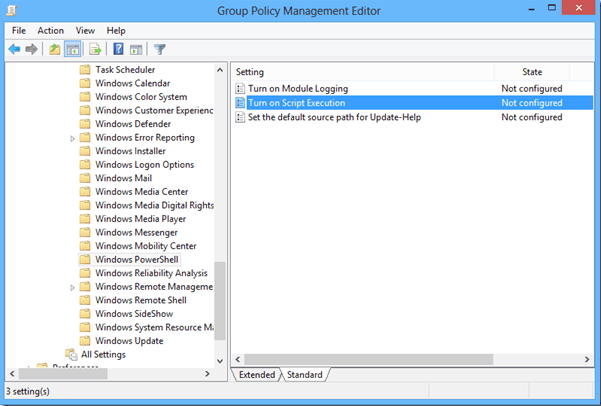


Restart the Win RM service for changes to take effect:

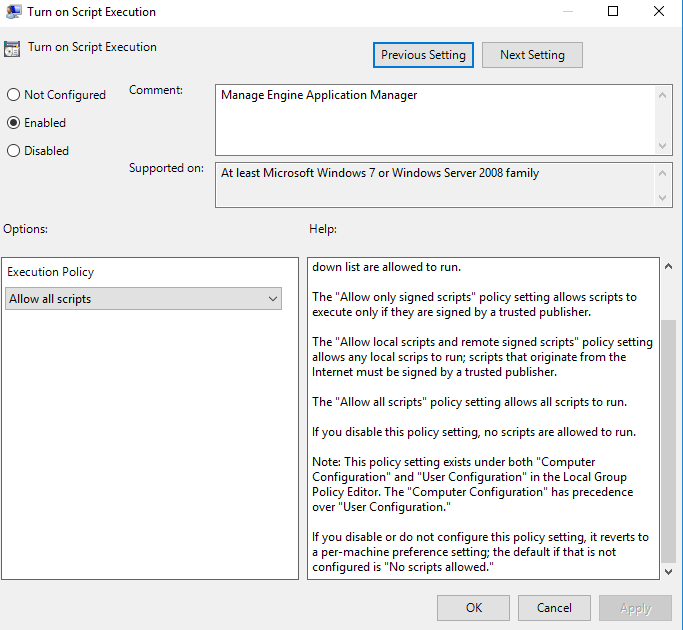
* Restart-Service WinRM

Configure Power shell Script Execution via Group Policy Editor

* Open the Group Policy Editor from Control Panel→ Edit Group Policy (or) run gpedit.msc from Start menu.
* To configure, navigate under Computer Configuration to Policies\Administrative Templates\Windows Components\Windows PowerShell.
* You should see a setting called Turn on Script Execution like in the following image



* Double-click the setting. You will want to enable it and select an option from the drop down.



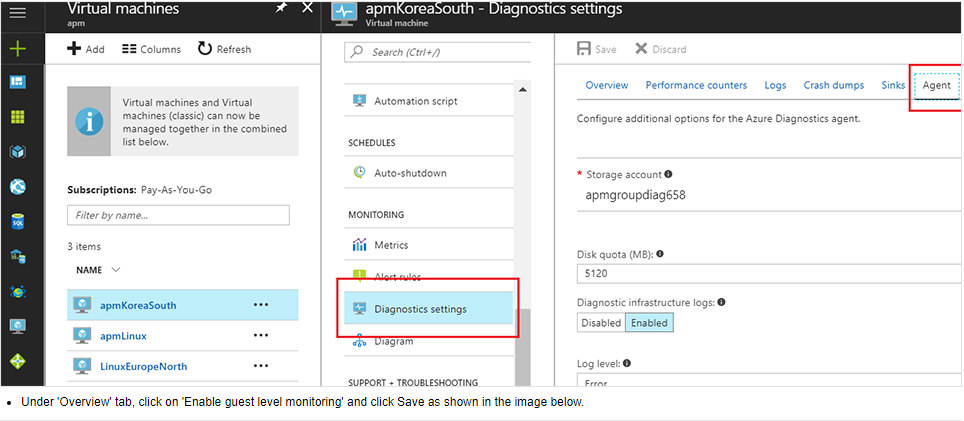
* Set it to “Allow All Scripts”.
* Click Apply and OK.

Prerequisites for adding a Virtual Machine

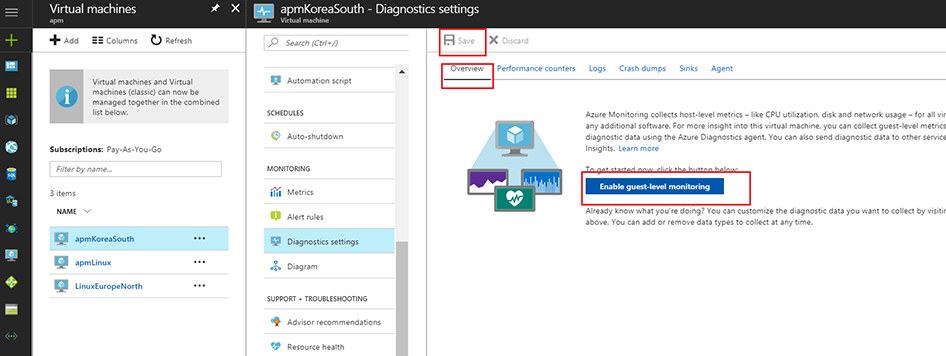
Microsoft Azure - Enable Diagnostics Extension (Windows & Linux VM)

Steps to Enable Diagnostics Extension for WINDOWS VMs.

* Log in to Azure Portal(https://portal.azure.com) using the credentials of 'Administrator'
* Navigate to your virtual machine
* Click on 'Diagnostics settings' on the vertical pane. Select 'Agent' tab and click on 'Remove' at the bottom, as shown in the below image.



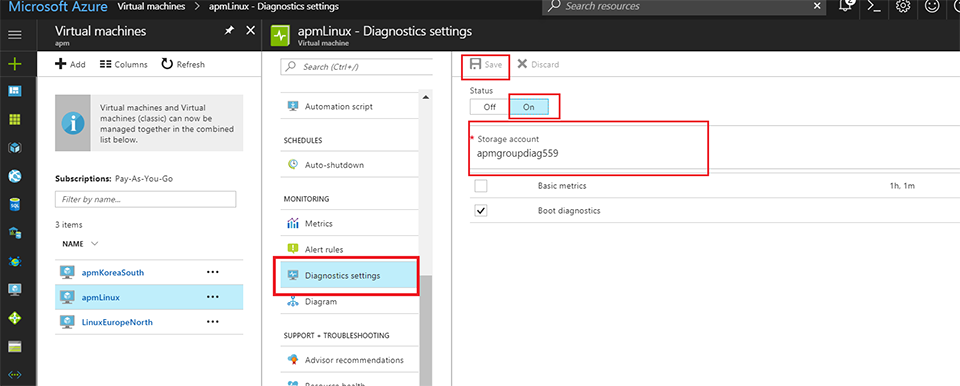
* Under 'Overview' tab, click on 'Enable guest level monitoring' and click Save as shown in the image below.



* Restart the VM

**Steps to Enable Diagnostics Extension for LINUX VMs :**

* Log in to Azure Portal([https://portal.azure.com](https://portal.azure.com/)) using the credentials of 'Administrator'
* Navigate to your virtual machine
* Click on 'Diagnostics settings' on the vertical pane. Make Status as 'On', Choose a storage account and click 'Save' as shown below.



* Restart the VM

Link for demo : <http://help.appmanager.com/applications-manager-prerequisites$mode2>

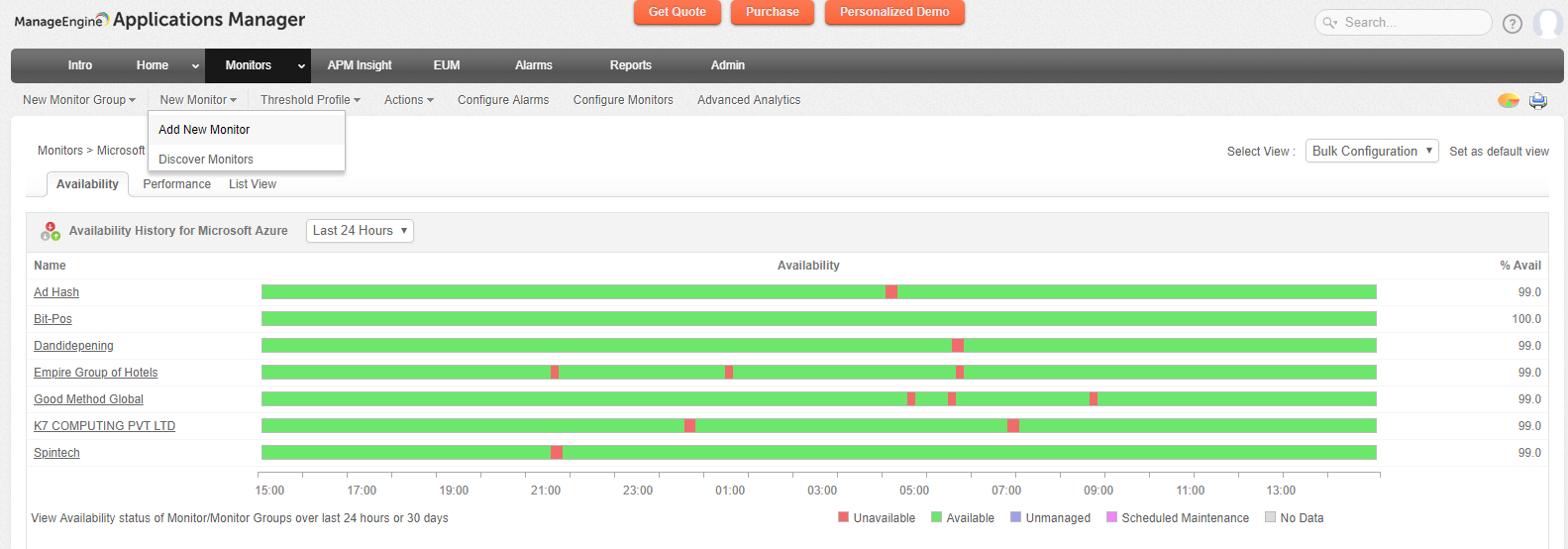
Link for Document:

<http://help.appmanager.com/applications-manager-prerequisites$AzureVM>

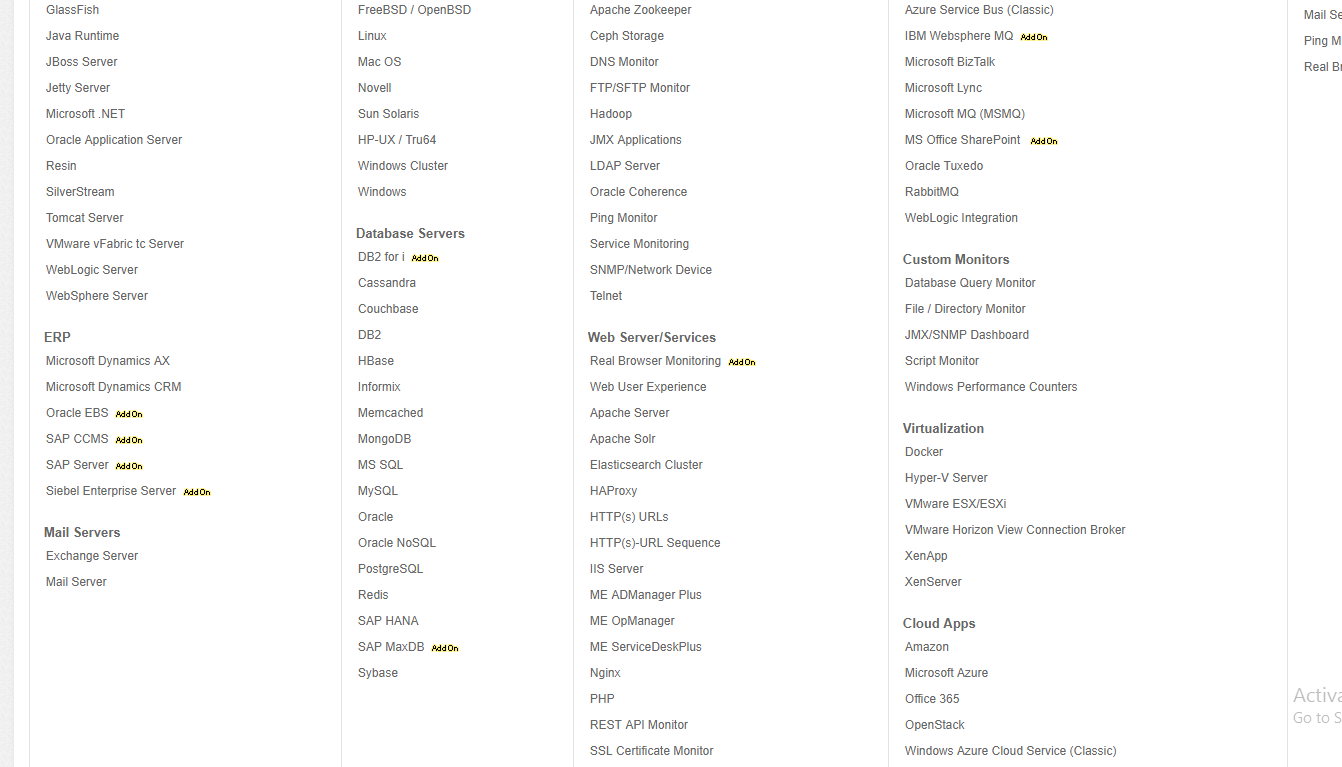
Link for total Metrics Available: <http://help.appmanager.com/azure-virtual-machines>

Configuration in manage Engine Application Manager.

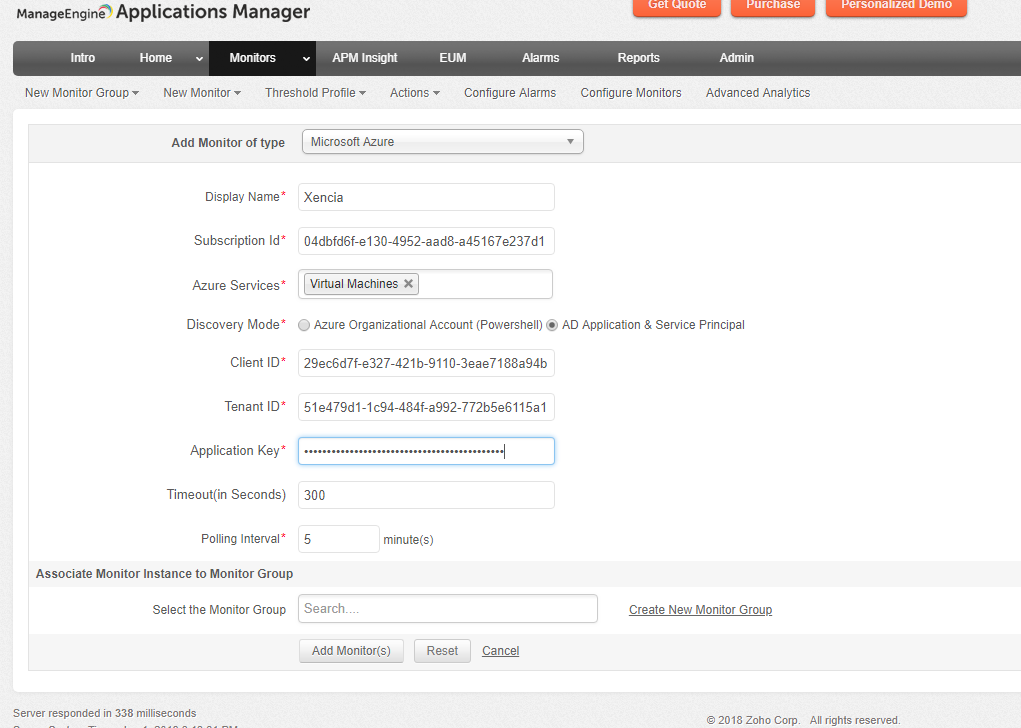
After logging into the Application Manager Click on New Monitor we find two Option select with Add New Monitor.



After Selecting Add New Monitor we find a below screen



In the Above screen we can see cloud App. Under cloud app select Microsoft Azure we find a below screen fill the details and Click on Add Monitor.



After clicking on Add Monitor the Configuration will be done.

