Vyapin Virtualization Management Suite

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General Information

About Vyapin Virtualization Management Suite

System Requirements

How to purchase?

How to register the software?

Technical support

About Vyapin Virtualization Management Suite

Vyapin Virtualization Management Suite is a powerful solution for auditing, managing and monitoring virtual machines across your entire Windows network. The Vyapin Virtualization Management Suite consists of three modules - the VM Reports module, the VM Performance Analyzer module and the VM Performance Monitor module.

VM Reports Module: With the VM Reports module you can perform a complete scan for all installed VMs in your network. You can perform an automated inventory of VMs and their configuration at regular intervals and keep a constant watch on the health of your Hyper-V Servers. The solution provides a variety of audit reports that are simple, elegant and highly customizable for System Administrators, IT infrastructure Managers and Systems Audit personnel to use and act on.

VM Performance Analyzer Module: With the VM Performance Analyzer module you can analyze the performance history of Hosts and VMs in your network. You can collect performance metrics at regular intervals of time and then analyze these performance metrics over a period of time. You can perform a Trend analysis of various loads by charting the history of important performance variables related to CPU, Memory, IO and Network. The Analyzer module assists you in Capacity Planning of future workloads by letting you analyze current workloads by aggregating data from pre-defined intervals of time such as Daily, Weekly and Monthly subsets of data.

VM Performance Monitor Module: VM Performance Monitor module is a resource monitoring tool that collects performance metrics for Hyper-V hosts and their VMs and lets you monitor important CPU, Memory, IO and Network resources in real time using charts and tables.

Vyapin Virtualization Management Suite has been architected using the latest Microsoft .NET technology, bringing you the best-in-breed reporting solution for your entire Hyper-V Servers. Vyapin Virtualization Management Suite is highly optimized for performance (using native Windows API calls wherever appropriate), resulting in fast data collection of deeply embedded configuration data. Imagine scanning your vast network of Hyper-V servers without having to wait forever to see your reports! You can create data subsets for your network using our powerful scan options and meaningfully segment your entire network for data collection and reporting.

System Requirements

For the computer running Vyapin Virtualization Management Suite

Processor	Intel Pentium processor
Disk space & Memory	512 MB RAM and minimum of 20 MB of free disk space
Operating Systems	Windows 10 / Windows 8.1 / Windows 8 / Windows 7 / Windows Server 2012 R2 / Windows Server 2012 / Windows Server 2008 R2 / Windows Server 2008 / Windows Server 2003 with .NET Framework 4.0 or higher with the latest service packs
Database	Microsoft SQL Server 2012 (Enterprise / Standard / Developer / Express edition) or Microsoft SQL Server 2008 (Enterprise / Standard / Developer / Express edition) or Microsoft SQL Server 2005 (Enterprise / Standard / Developer / Express edition) running in local / remote computer with latest Service Pack
Software	MDAC v2.5/2.6/2.8

For the Hyper-V Servers reported by Vyapin Virtualization Management Suite

Microsoft Hyper-V Server 2012 R2 / Microsoft Hyper-V Server 2012 /Microsoft Hyper-V Server 2008 R2 / Microsoft Hyper-V Server 2008 with Microsoft Windows Management Instrumentation Service enabled.

How to Purchase?

You can purchase Vyapin Virtualization Management Suite online from our website http://www.vyapin.com/. Please contact our Sales department at sales@vyapin.com for sales and price related queries.

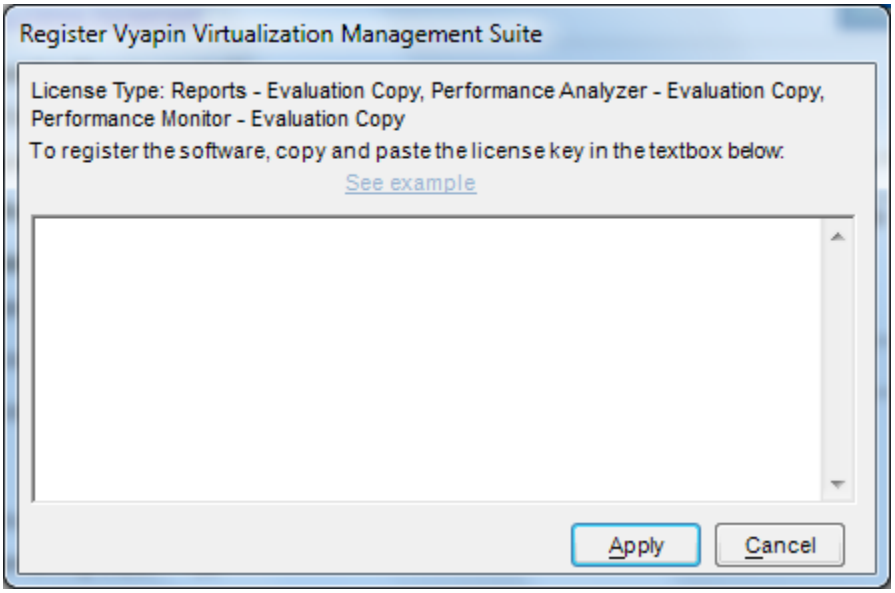
How to register the software?

Once you purchase the software online or through any one of our resellers, you will receive a sale notification through e-mail from our sales department. We will send you an e-mail with the necessary instructions to activate the software.

In case you do not receive an e-mail from our sales team after you purchase the software, please send the following information to our sales department at sales@vyapin.com with the sales order number:

- **Company Name** : End-user Company Name
- **Location** : City & Country for the Company Name given above

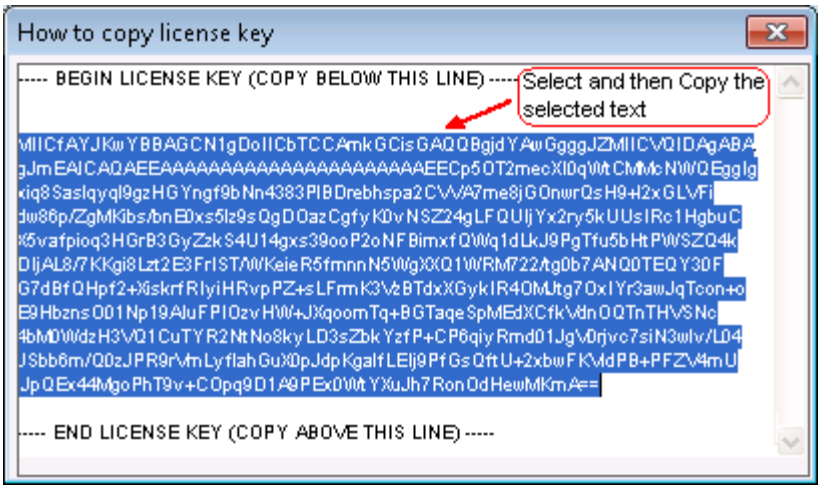
Please allow 12 to 24 hours from the time of purchase for our sales department to process your orders.



Register screen

Perform the following steps to activate the software:

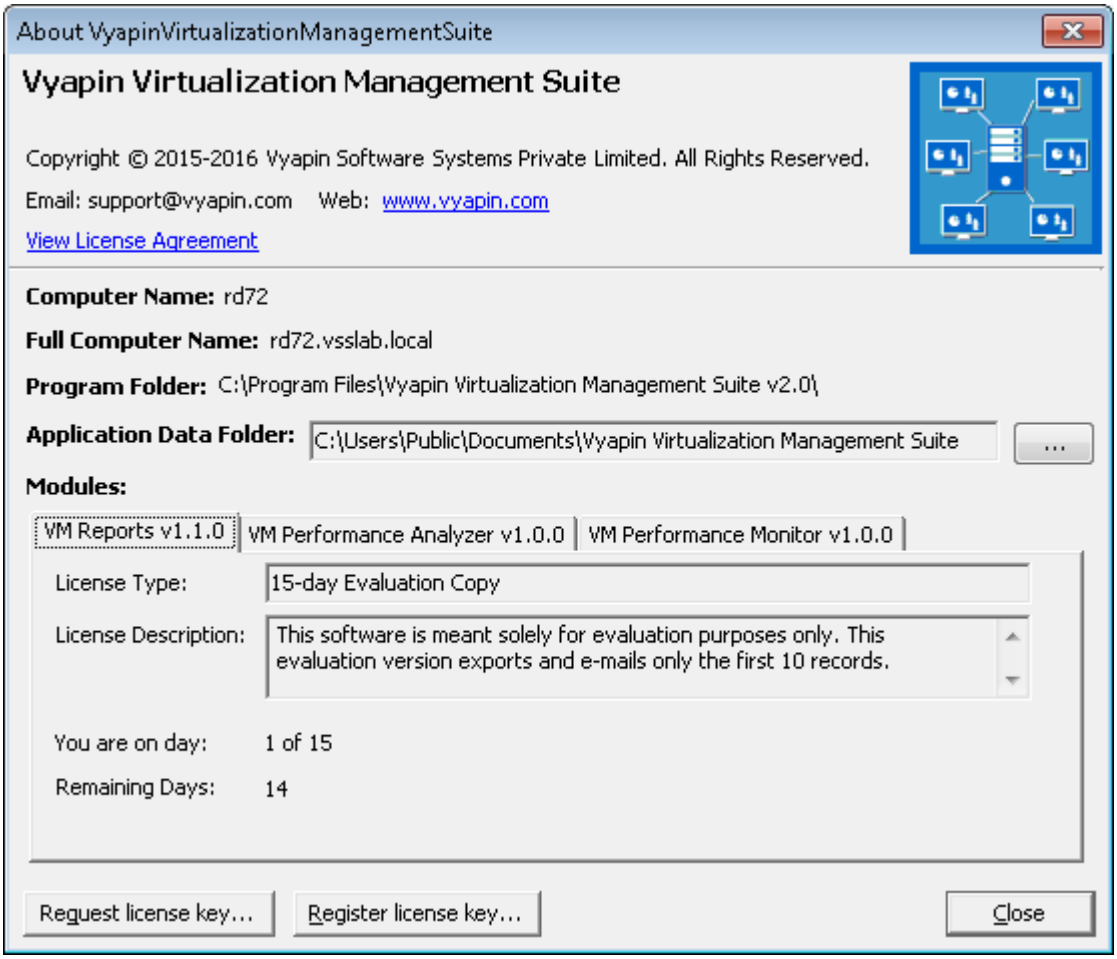
1. Download evaluation/trial copy of software from the respective product page available in our website at http://www.vyapin.com/
2. Install the software on the desired computer.
3. You will receive a license key through e-mail as soon as the purchase process is complete.
4. Click 'Activate' in File -> About -> Activate menu to see the Activate dialog (as shown in Image 1).
5. Copy the license key sent to you through email and paste it in the 'License Key' textbox. For help on how to copy the license key, click 'Click here to see how to copy and paste the license key' link in the Activate dialog (as shown in Image 2).



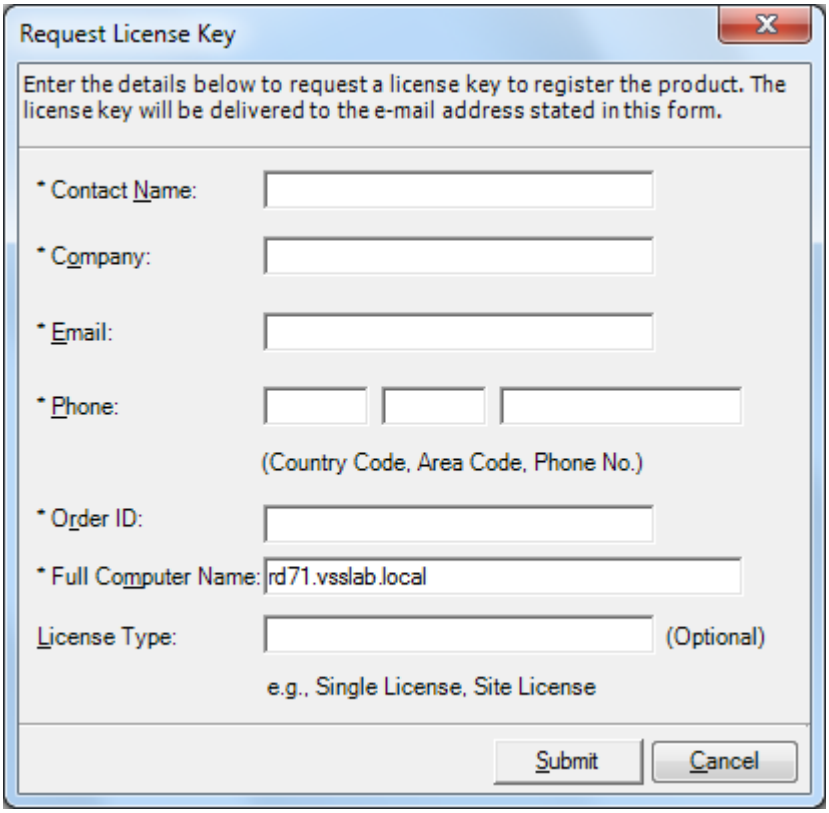
How to copy license key screen?

Request License Key:

1. Select **Help -> About Vyapin Virtualization Management Suite** from File.
2. The **About Vyapin Virtualization Management Suite** dialog will appear as shown below:



Click **Request license key...** button. The Request License Key dialog will appear as shown below:



Request License Key screen

Enter the following details and click Submit to place the license key request through email.

- **Contact Name**: End-user of the product.
- **Company:** End-user Company Name.
- **Email:** Email address where the license key has to be sent.
- **Phone:** Phone number with country code and area code.
- **Order ID**: Order/Transaction ID reference.
- **License Type**: License that was purchased.

Technical Support

Vyapin Virtualization Management Suite Frequently Asked Questions (FAQ) section is available online at our website http://www.vyapin.com.

Please direct all technical support questions to support@vyapin.com. Include the following information to expedite a response:

a) Include the version of the product you are using.

b) If the problem is associated with installation, include the steps that led to the problem.

c) If the problem is associated with usage, please state the series of steps you performed.

d) Include the version of the OS, info about any service packs or hot-fixes and local language of the OS installed.

e) Attach the Error Log File available in the common application data path of Vyapin Virtualization Management Suite (e.g., <Application Data Folder> \ Vyapin Virtualization Management Suite.Log).

Note:

<Application Data Folder> is the common area where Vyapin Virtualization Management Suite settings will be stored in the machine running Vyapin Virtualization Management Suite. The <Application Data Folder> can be found from the File -> About screen. The default path of <Application Data Folder> is as follows:

Windows 7, Windows 8, Windows 8.1, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2 - C:\Users\Public\Documents\Vyapin Virtualization Management Suite

Getting Started

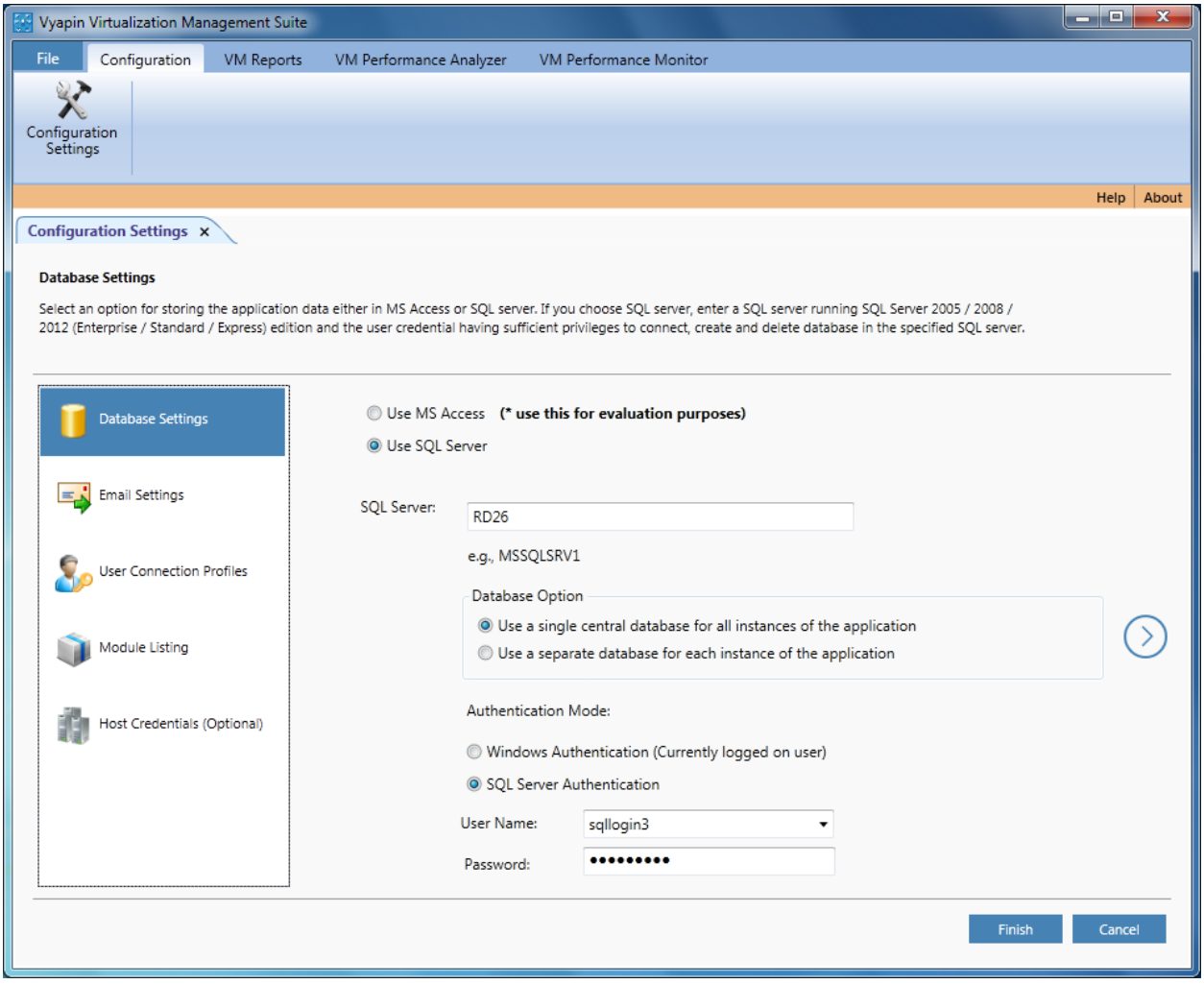
Configuration Settings

- Database Settings
- Configuring Host Credentials
- Add a host
- Edit a host
- Delete a host
- Configure SMTP Server
- User Connection Profiles

Database Settings

Vyapin Virtualization Management Suite may be configured to use either MS-Access MDB or SQL Server database for its data storage to generate reports. If you choose SQL server Vyapin Virtualization Management Suite requires an SQL Server running SQL Server 2005 / 2008 / 2012 (Enterprise / Standard / Express editions) to connect and create a new application database. Vyapin Virtualization Management Suite will connect to the specified SQL Server based on authentication mode and user credentials to manage its own application database.

You can access the Database settings by clicking **Configuration -> Configuration Settings** tab in the Vyapin Virtualization Management Suite main application window and choose Database settings, as shown below



User Authentication

To connect to SQL Server, Vyapin Virtualization Management Suite uses the relevant user accounts based on the authentication mode as listed below:

A. **Windows Authentication:** In this method, Vyapin Virtualization Management Suite uses the currently logged on user account while running reports

B. **SQL Authentication:** In this method, Vyapin Virtualization Management Suite uses the specified SQL user account and password while running reports. Vyapin Virtualization Management Suite stores the SQL user name and password as a user profile in 'Stored User Names and Passwords' applet for its usage.

Read User Connection Profiles for more details.

Note: Vyapin Virtualization Management Suite expects the user account to have sufficient privileges to create, add to and delete database in the SQL server.

Database creation

Vyapin Virtualization Management Suite creates databases in SQL Server based on the following database options (whichever is selected) as outlined below:

1. Use a single central database for all instances of the application

A new database will be created in the SQL server by the name Vyapin Virtualization Management Suite. Inside the Vyapin Virtualization Management Suite database, separate tables will be created for each installation of Vyapin Virtualization Management Suite. The table names will be prefixed with the computer name that is running Vyapin Virtualization Management Suite application. Thus, each installation of Vyapin Virtualization Management Suite will deploy its own tables based on the computer where Vyapin Virtualization Management Suite is installed. For example, if you install the software on 3 different computers, single database with 3 different tables will be created inside the single database and each installed application will generate reports separately independent of each other.

2. Use a separate database for each instance of the application

Vyapin Virtualization Management Suite creates a single application database in the default data storage location used by the SQL Server during application launch. Vyapin Virtualization Management Suite uses the following naming convention: VyapinVirtualizationManagementSuite-<COMPUTERNAME>, where COMPUTERNAME is the name of the computer running Vyapin Virtualization Management Suite.

For example, if the computer running Vyapin Virtualization Management Suite is 'CLIENT01', Vyapin Virtualization Management Suite creates 'Vyapin Virtualization Management Suite-CLIENT01' with data ('Vyapin Virtualization Management Suite-CLIENT01.mdf') and log (''Vyapin Virtualization Management Suite-CLIENT01_log.LDF') files stored in the default SQL data folder in the SQL server (for example, C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Data).

Database cleanup

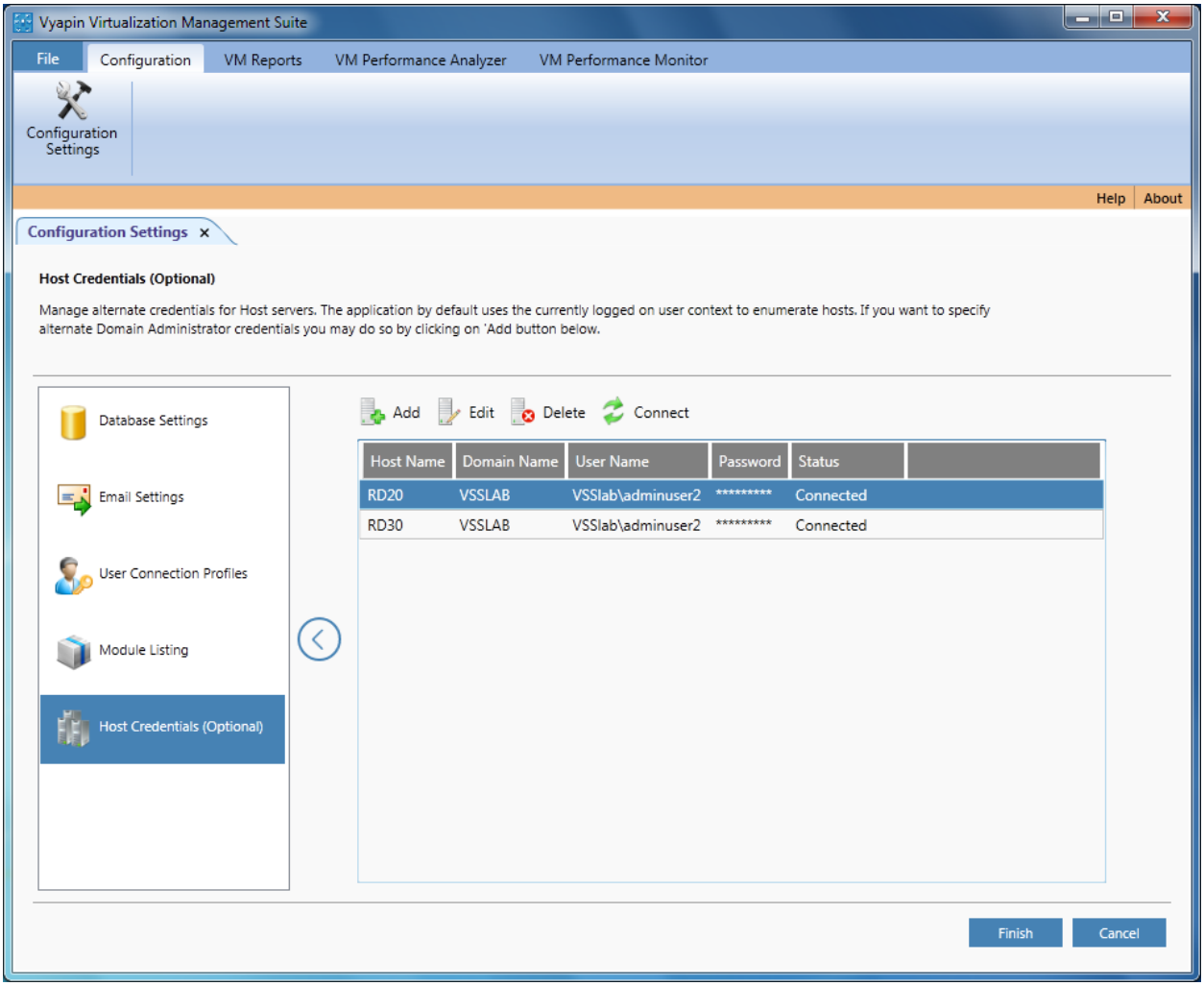
Vyapin Virtualization Management Suite will delete the application database while uninstalling the Vyapin Virtualization Management Suite application from the computer.

Configure Host Credentials (Optional)

Manage alternate credentials for Host Servers. The application by default uses the currently logged on user context to enumerate Hyper-V Servers and its virtual machines and to collect report data. If you want to specify alternate Domain Administrator credentials you may use this option.

Configuring Host Credentials (Optional)

You can access the Host Credentials settings by selecting the Host Credentials (Optional) option in the Configuration Settings window.



The various operations that can be performed in the Host Credentials screen are given below:

Operation	Description
Add	To Add a new host to the list.
Edit	To Edit the properties of a host in the list. Select a host and click Edit button.
Delete	To Delete a host from the list. Select a host and click Delete button.
Connect	To connect to a host in the list. Select a host and click Connect button.

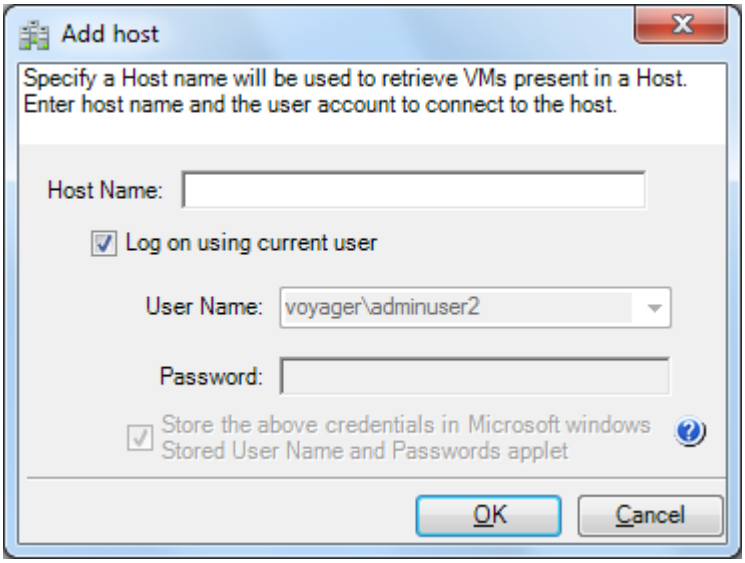
Add a Host

You may also add one single host at a time to the list of host in the credentials list by using Add Host feature.

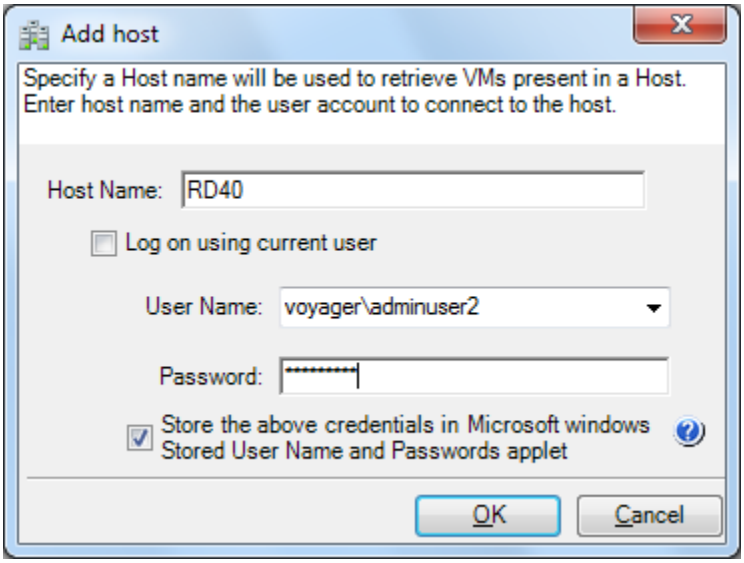
Add a domain to the list

1. Launch Host Credentials (Optional) window.
2. In the Host Credentials (Optional) window, click

Add button to add a domain to the list.
3. The New **Add Host** dialog will be displayed as shown below:



Enter the name of a host.

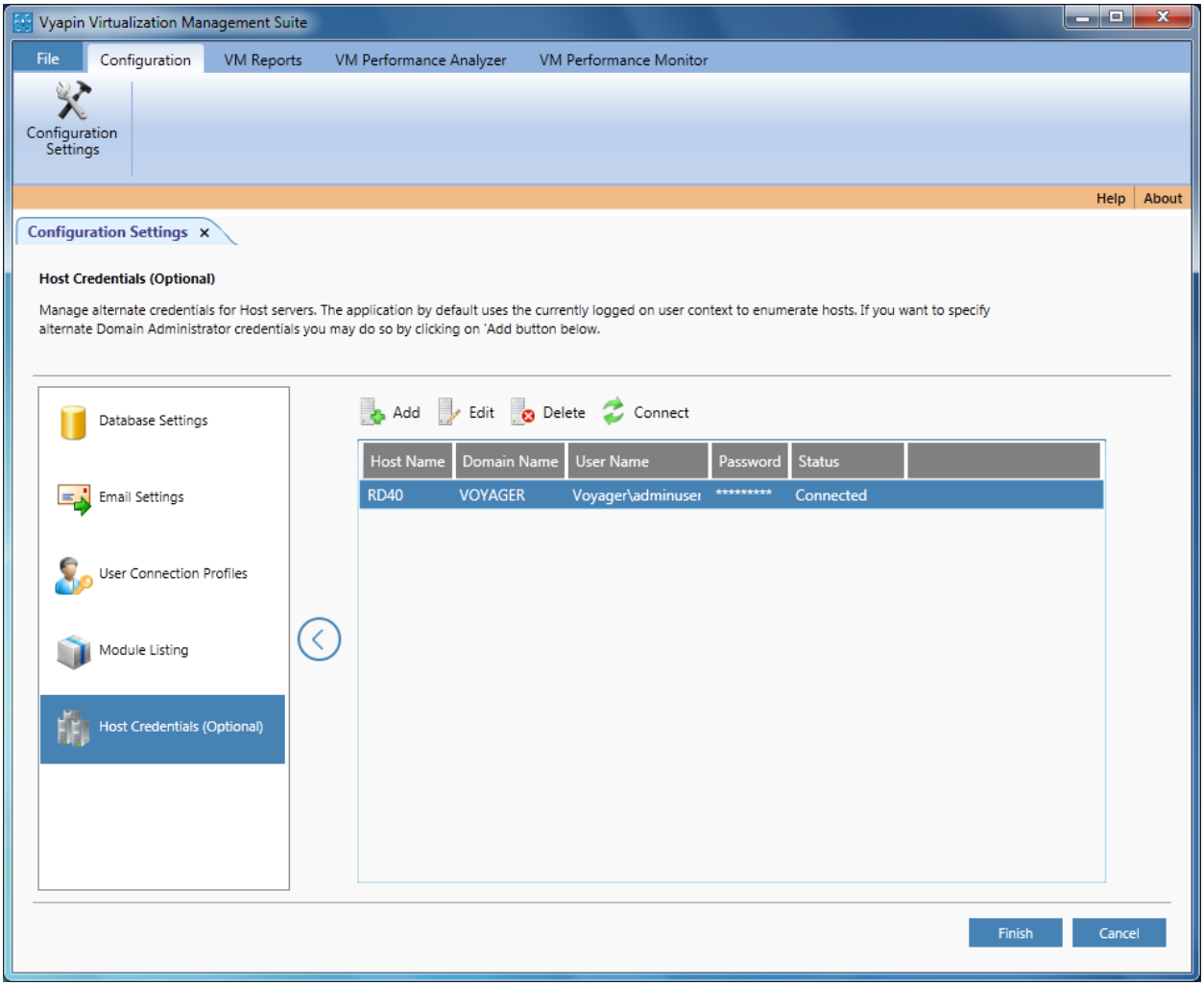


4. Specify user name and the corresponding password to connect to the specified host.

   Store the above user credential in Microsoft Windows Stored User Names and Passwords applet - Vyapin Virtualization Management Suite allows the user to enter different user credentials to connect to the host. Uncheck the checkbox 'Log on using current user' if you like to connect to the host using a different user context.

   Vyapin Virtualization Management Suite will store the user credential to connect to domain in the Microsoft Windows Stored User Names and Passwords applet / Credential Manager for security reasons. The stored user profile is tied to the user context (currently logged on user account) in which the profile is created.

5. Click OK to add the host to the Host Credentials list.
6. Vyapin Virtualization Management Suite will connect to the host with the newly provided connection parameters and add it to the list, upon successful connection to the Host.

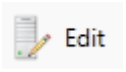


7. Click Cancel to abort the add process of the host to the Host Credentials list.

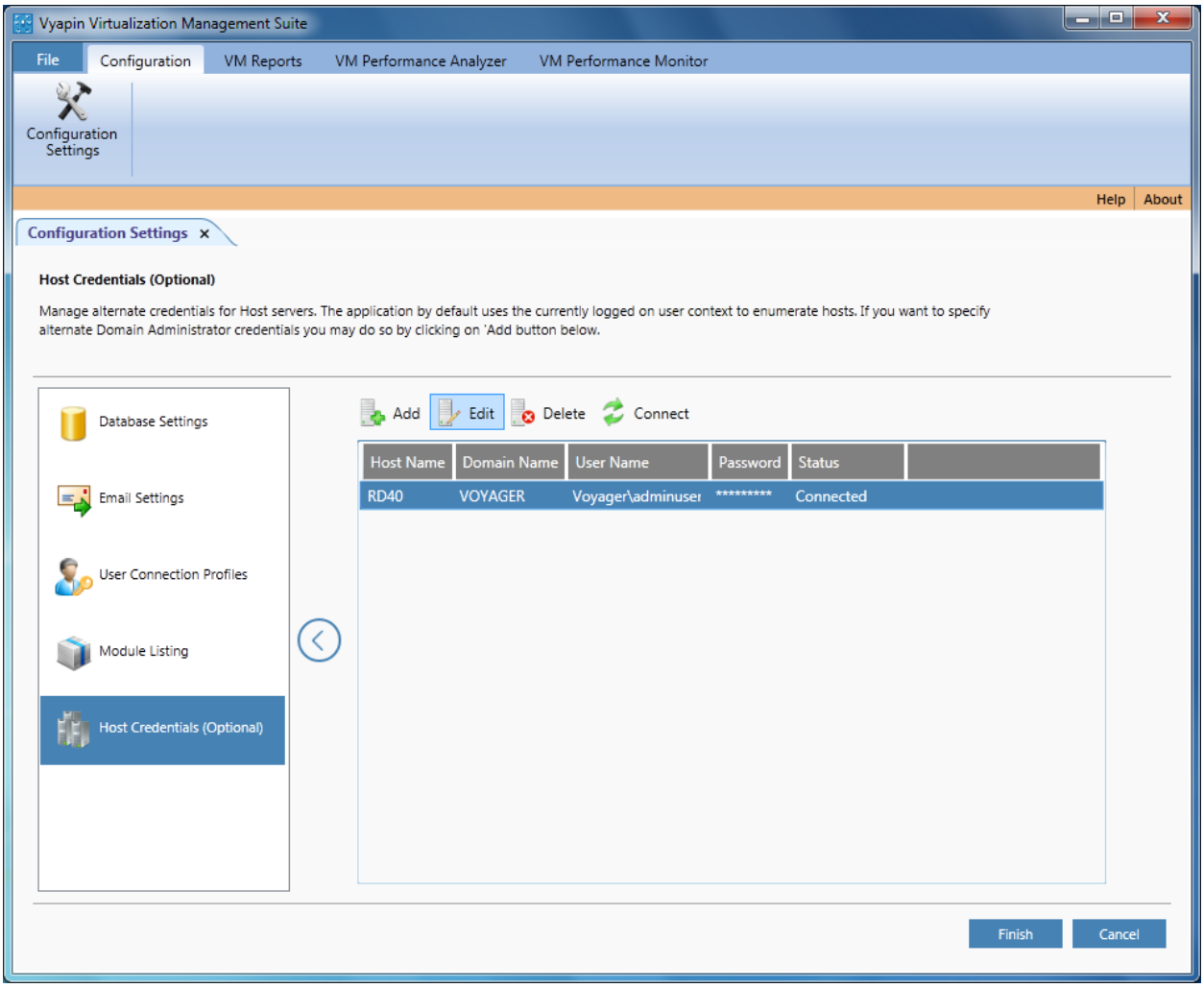
Edit a Host

To Edit a host in the Host Credentials (Optional), follow the steps given below:

1. Launch Host Credentials (Optional) window.

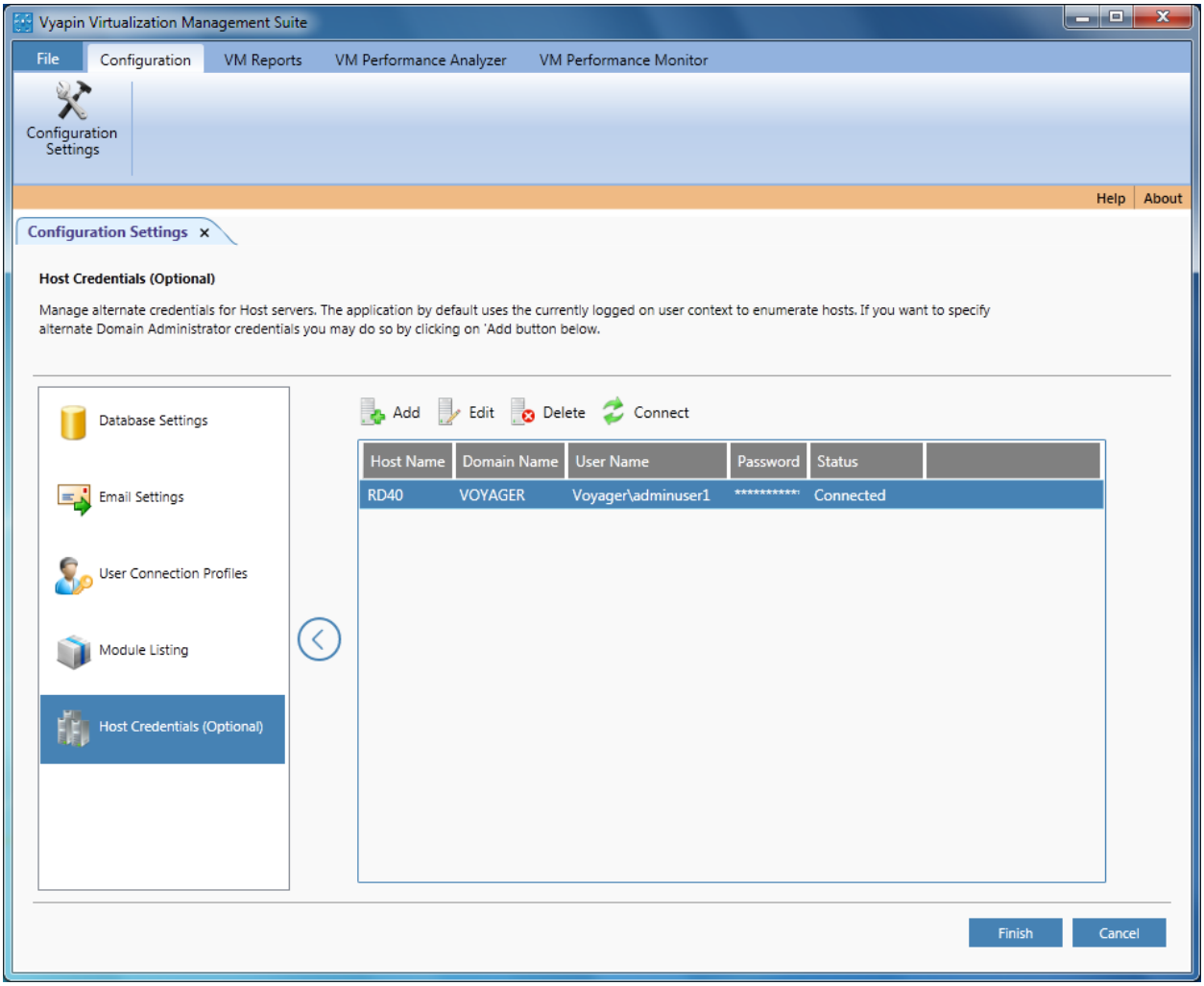
2. In the Host Credentials (Optional) window, select any row (host), **Click** 

button to Edit an existing host in the list, as shown below:



3. The host name cannot be modified during the edit operation.
4. Specify user name and the corresponding password to connect to the specified host.
5. **Click** OK to save and connect to the host with the newly provided connection parameters and update the host in the Host Credentials (Optional) list.

6. Vyapin Virtualization Management Suite will connect to the host with the newly provided connection parameters and modify it in the list, upon successful connection to the host.

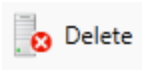


7. **Click** Cancel to retain the existing connection parameters of the host in the Host Credentials list.

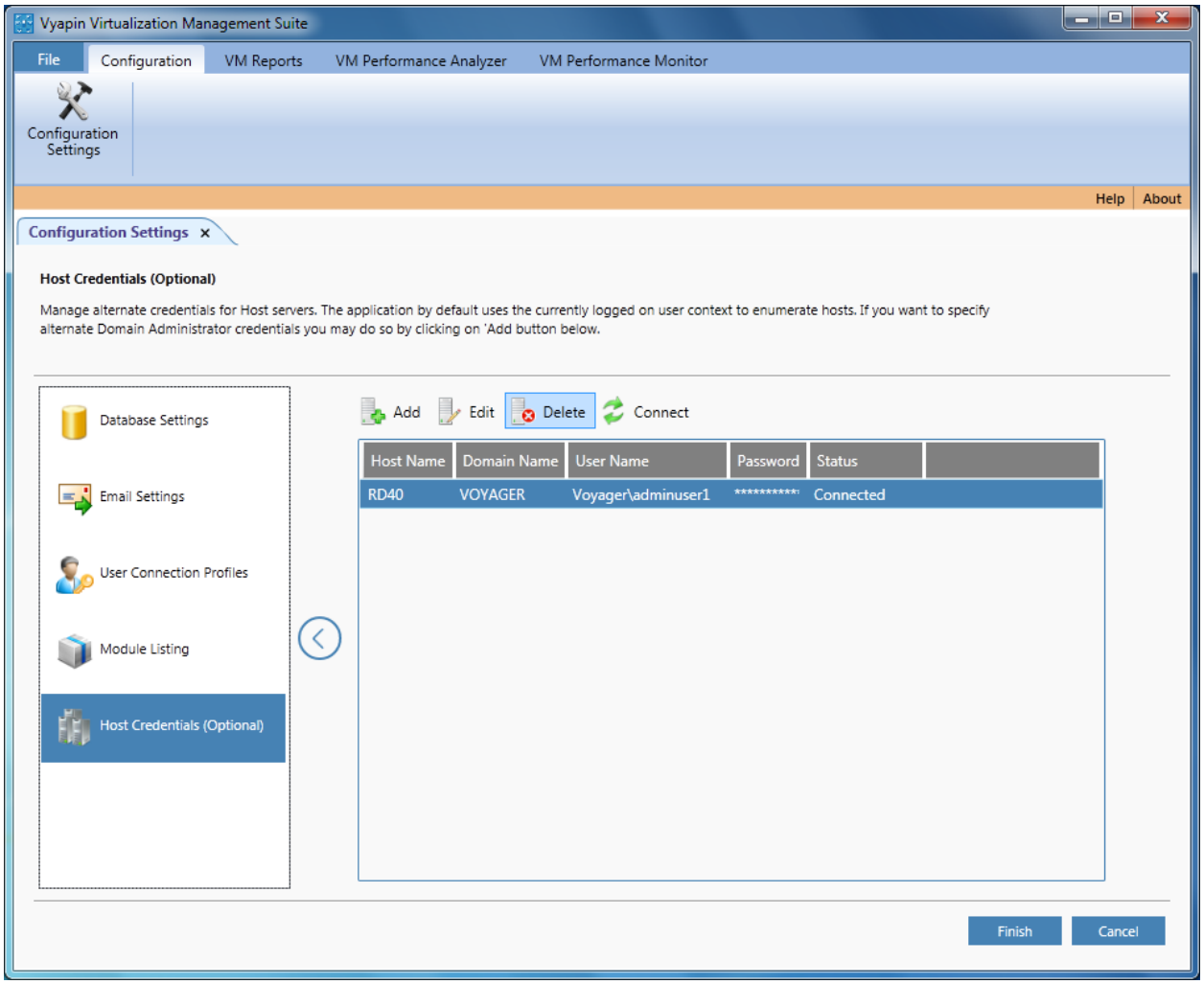
Delete a Host

Perform the following steps to delete a host:

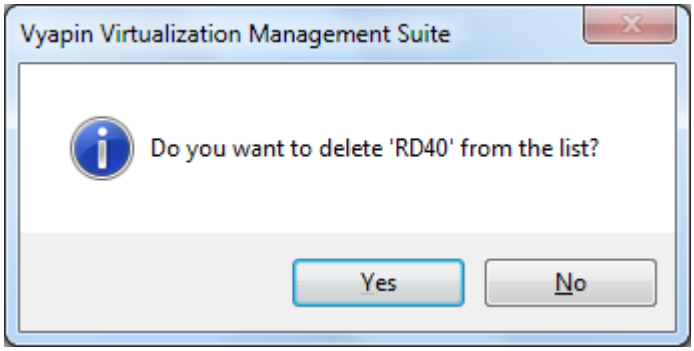
1. Launch Host Credentials (Optional) window.

2. In the Host Credentials (Optional) window, select any row (host), click 

button to delete the host from the Host Credentials list.



3. An alert message asking for confirmation to delete the host will be displayed as shown below:

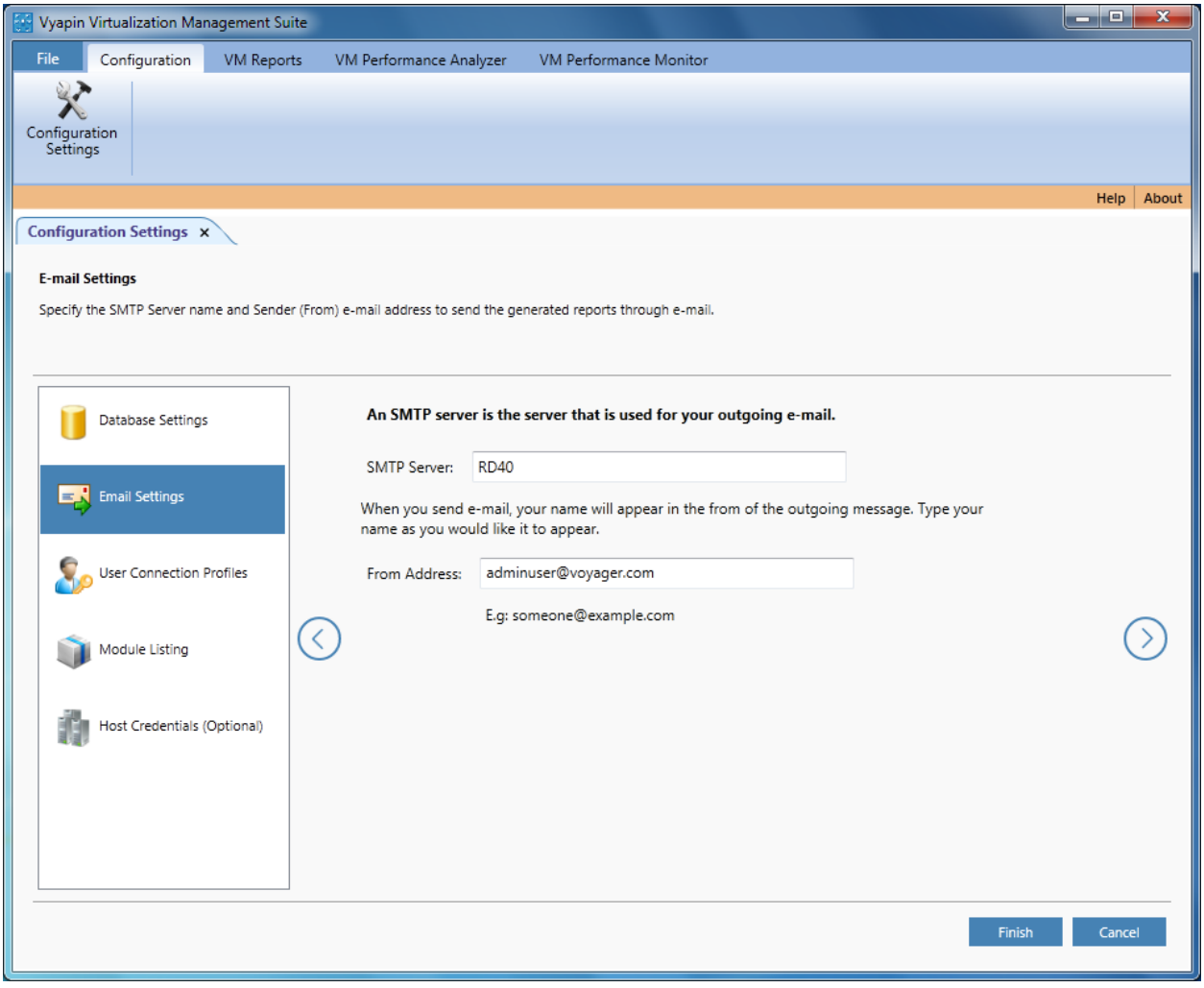


4. Click **Yes** to delete the selected host.
5. Click **No** to abort the delete process of the selected host.

Configure SMTP Server

Vyapin Virtualization Management Suite provides the option to e-mail the reports generated. For e-mailing reports, Vyapin Virtualization Management Suite requires SMTP Server, From E-mail Address, To E-mail Addresses (recipients separated by semicolon) and the e-mail report format. Vyapin Virtualization Management Suite maintains a single SMTP Server and a From E-mail Address for use by all reports. You can specify a separate set of To e-mail addresses (recipients), e-mail report format, subject and body of the message for each reports.

You can set SMTP Server and From Address by clicking Configuration -> Configuration Settings tab in the Vyapin Virtualization Management Suite main application window, as shown below:



User Connection profiles

Vyapin Virtualization Management Suite creates a user profile in **Windows Stored User Names and Passwords** applet / **Credential Manager**, in order to store the domain user context for enumerating servers using ADSI.

The stored user profile will be useful for generating reports using Vyapin Virtualization Management Suite under the following scenarios:

- Using an alternate user account to connect to the domain to retrieve servers using ADSI.
- Providing credentials that have sufficient rights to enumerate shares present in computers within a domain.

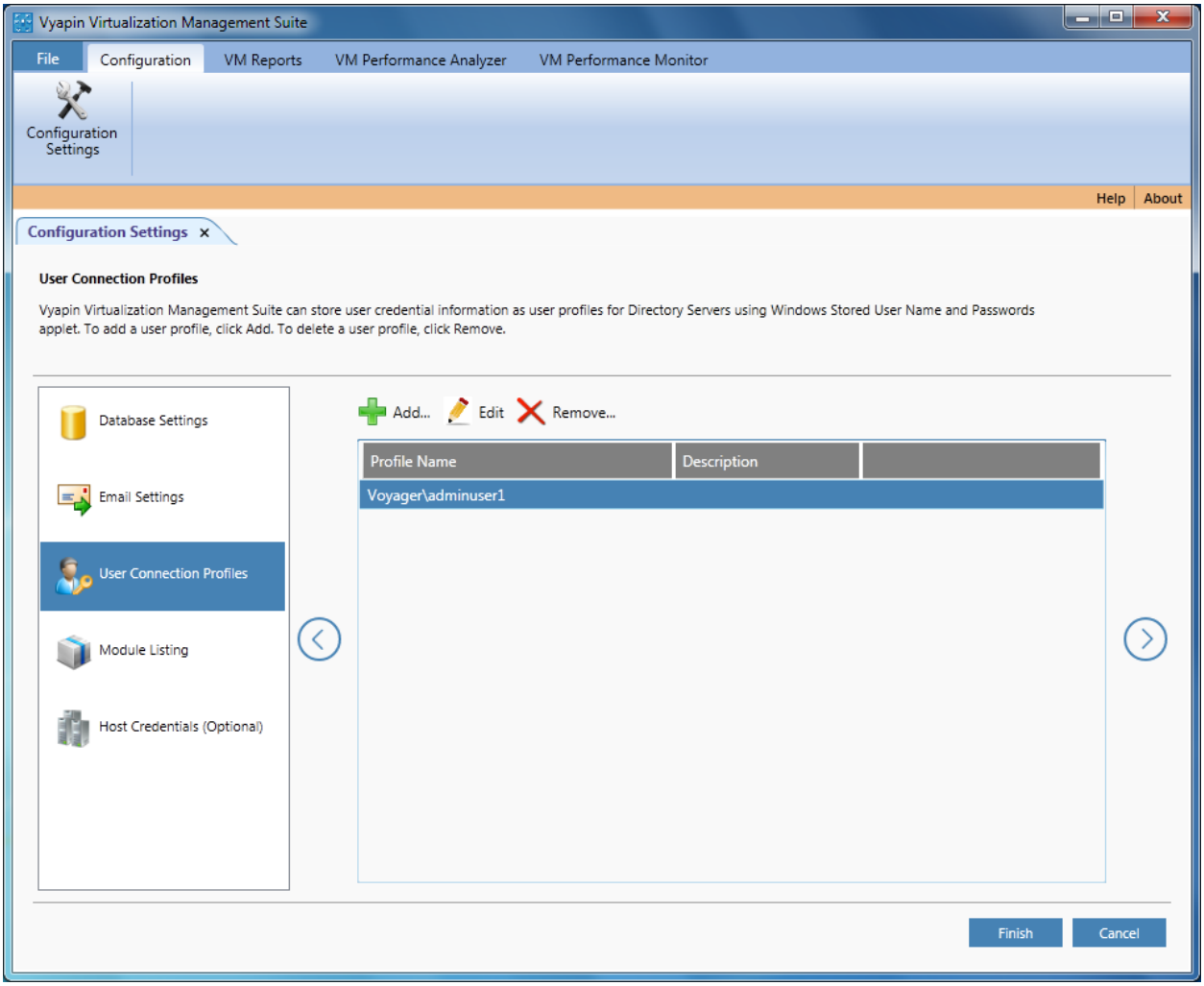
The stored user profile persists for all subsequent logon sessions on the same computer where Vyapin Virtualization Management Suite is installed. The stored user profiles are visible to the application under other logon sessions on the same computer.

The stored user profile created by Vyapin Virtualization Management Suite is restricted to the Windows User Profile context. If the Windows User Profile is maintained locally, Vyapin Virtualization Management Suite stored user profile is accessible only by the same user in the same computer. If the user who creates Vyapin Virtualization Management Suite stored user profile, has a Roaming user account in the enterprise, the Vyapin Virtualization Management Suite stored user profile can be accessed by the same user in any computer in the Windows enterprise.

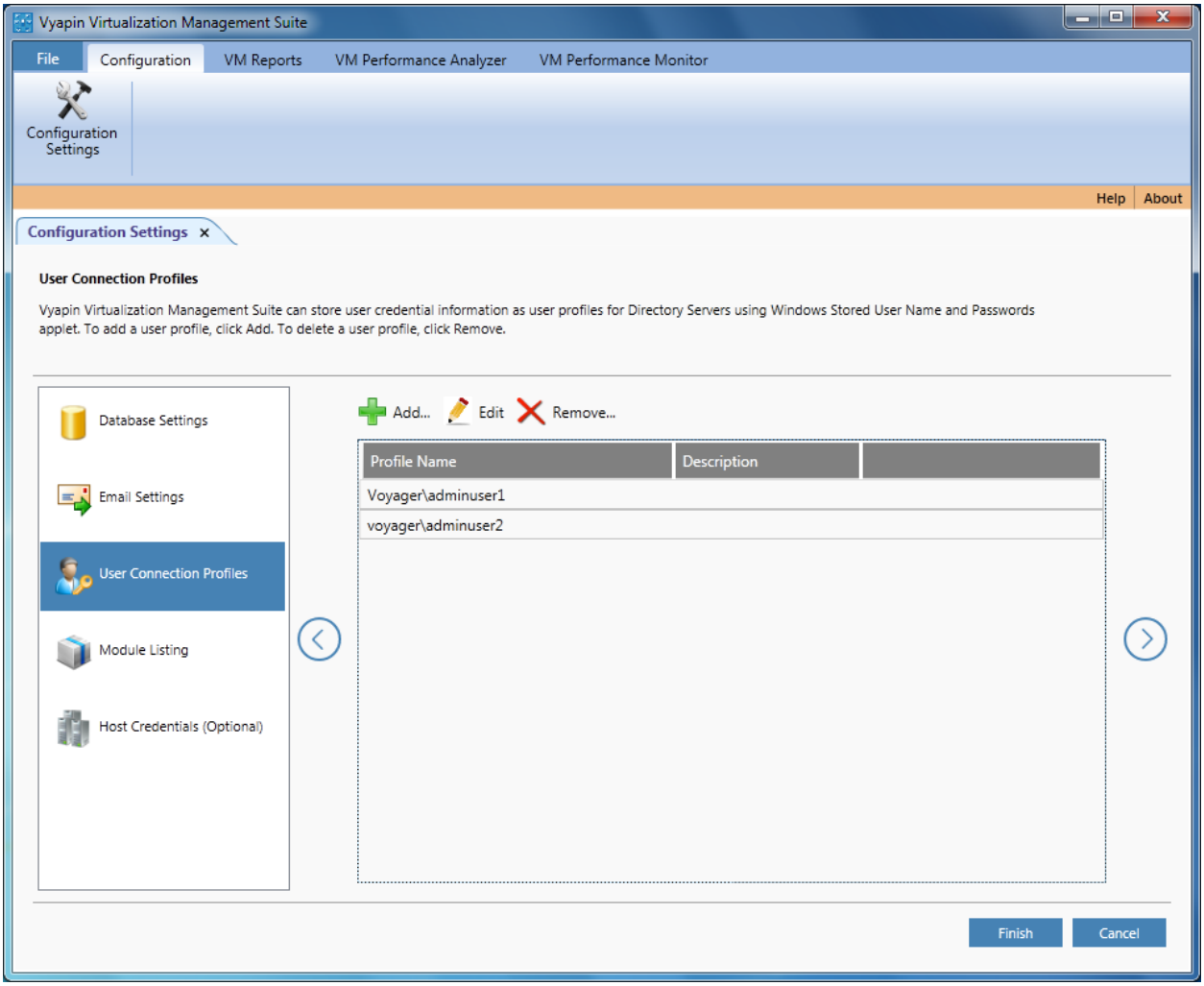
The stored user profile is a generic credential of **Windows Stored User Names and Passwords** applet / **Credential Manager** and can be used by the application only. The credential information is stored securely in an *256 bit encrypted format* in **Windows Stored User Names and Passwords** applet / **Credential Manager**.

The stored user profile corresponding to the user account will be used by the application in order to connect to the domain, if 'Use ADSI' is selected in Vyapin Virtualization Management Suite Enumeration Settings.

Using the Connection Profile dialog shown below, new profile can be created and available profiles can be removed from the profiles list.



Click **Add** button to add a new profile and a dialog will appear as shown below:



Click **Edit** button in the Connection Profile dialog to edit available profiles.

Click **Remove** button in the Connection Profile dialog to remove available profiles.

VM Reports

About VM Reports

How to view Discovery Reports?

How to view Memory Reports?

How to view Networking Reports?

How to view Processor Reports?

How to view Replication Reports?

How to view Current Status Reports?

How to view Snapshot Reports?

How to view Virtual Hard Disk Reports?

How to view Integration Services Reports?

How to view DVD Drive Reports

How to view All VM Settings Reports?

About VM Reports

Introduction

VM Reports Module is used to perform a complete scan for all installed VMs in your network. You can perform an automated inventory of VMs and their configuration at regular intervals and keep a constant watch on the health of your Hyper-V Servers.

Please be aware that the VM Reports Module uses WMI (Windows Management Instrumentation) to collect report data. Hence, all reports require WMI to be installed and enabled on the Hyper-V host server and its VMs. For more information, refer to "Prerequisites and Initial Configuration" section.

Prerequisites and Initial Configuration

The VM Reports Module uses WMI to collect report data. WMI uses DCOM protocol and is affected by Windows Firewall and DCOM security settings. In order to generate the reports both Windows Firewall and DCOM must be properly configured. Windows Firewall and DCOM, when not properly configured on your remote computers, can cause errors such as an "RPC Server Unavailable" error or an "Access is denied" error. Also, ensure that the current user context or specified user context, under which the application runs, is a local administrator on target computers.

In order to generate the reports ensure the following settings are set appropriately:

- Remote Administration setting is enabled on Windows Firewall. By default, Windows Firewall blocks all unsolicited incoming traffic except for Group Policy. This is a common issue you might encounter while generating the reports. To resolve this issue, you need to enable the remote administration setting on the Firewall. For more information about configuring the Windows Firewall connections with a script, see http://www.microsoft.com/technet/community/columns/scripts/sg1104.mspx#EJAA.
- WMI is installed and the Startup Type for WMI service is set to Automatic and the service is running under Local System Account.
- DCOM is enabled and ensure that security settings for DCOM allow remote connections

    1. Run the DCOM Configuration Utility (dcomcnfg.exe)
    2. In the **Component Services** dialog box, expand **Component Services**, expand **Computers**, and then right-click **My Computer** and click **Properties**
    3. In the **My Computer Properties** dialog box, click the **Default Properties** tab
    4. Select **Enable Distributed COM on this computer**
    5. The **Default Authentication Level** is set to **Connect** and the **Default Impersonation Level** is set to Identify in Windows XP and later operating systems. For Windows NT, however, the **Default Authentication Level** is set to **Connect** and **Default Impersonation Level** is set to **Impersonate**
    6. The default DCOM security settings for **Access Permissions** and **Launch and Activation Permissions** in the **COM Security** tab in the **My Computer Properties** dialog includes at least INTERACTIVE, SYSTEM and Administrators

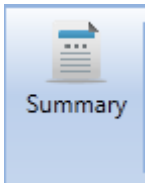
- In Windows XP SP2 and later operating systems the SERVICE account is granted **Impersonate a client after authentication** right under **User Rights Assignment** under **Local Policies**
- The **Data Execution Prevention** in Windows XP SP2 and Windows 2003 SP1 is enabled for essential windows programs only.

System Info Reports

The VM Reports Module provides reports on the following resource categories:

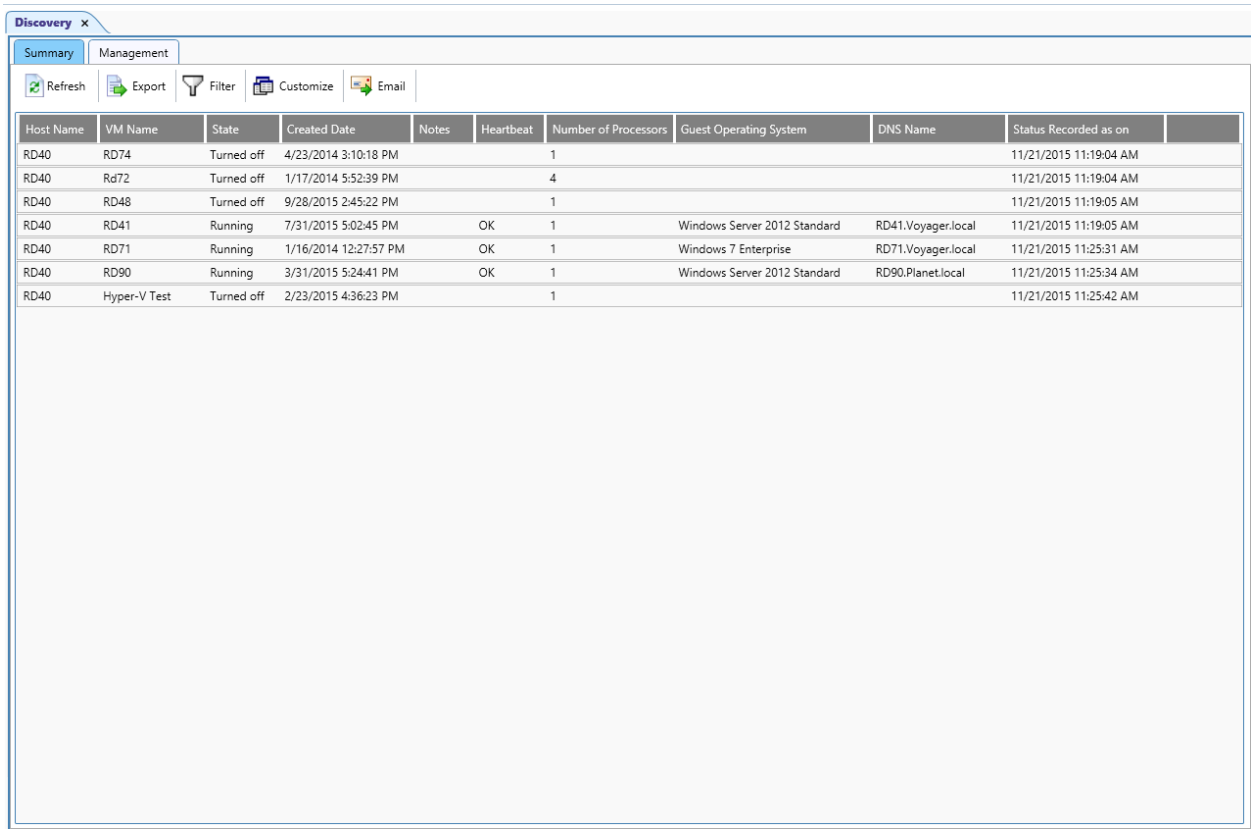
- Summary
- Memory
- Networking
- Processor
- Replication
- Current Status
- Snapshots
- Virtual Hard Disks
- Integration Services
- DVD Drives
- All VM Settings

How to view Summary Reports?



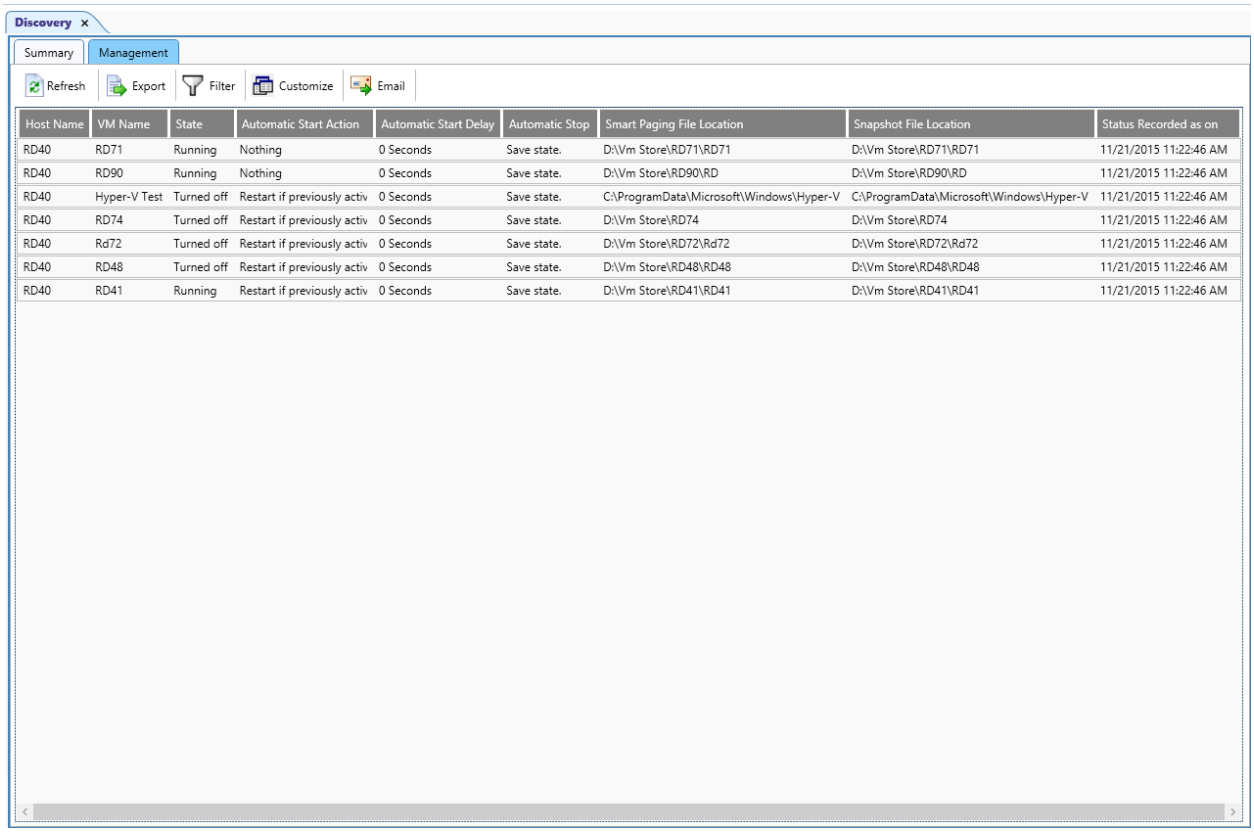
Click on under VM Reports to view Summary information available under each tab as listed below.

Click Summary tab to view the following information: **Host Name**, **VM Name**, **VM State**, **Created Date**, **Notes**, **Heartbeat**, **Number of Processors**, **Guest Operating System**, **DNS Name**.



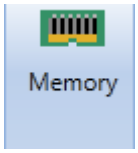
Host Name	VM Name	State	Created Date	Notes	Heartbeat	Number of Processors	Guest Operating System	DNS Name	Status Recorded as on
RD40	RD74	Turned off	4/23/2014 3:10:18 PM			1			11/21/2015 11:19:04 AM
RD40	Rd72	Turned off	1/17/2014 5:52:39 PM			4			11/21/2015 11:19:04 AM
RD40	RD48	Turned off	9/28/2015 2:45:22 PM			1			11/21/2015 11:19:05 AM
RD40	RD41	Running	7/31/2015 5:02:45 PM		OK	1	Windows Server 2012 Standard	RD41.Voyager.local	11/21/2015 11:19:05 AM
RD40	RD71	Running	1/16/2014 12:27:57 PM		OK	1	Windows 7 Enterprise	RD71.Voyager.local	11/21/2015 11:25:31 AM
RD40	RD90	Running	3/31/2015 5:24:41 PM		OK	1	Windows Server 2012 Standard	RD90.Planet.local	11/21/2015 11:25:34 AM
RD40	Hyper-V Test	Turned off	2/23/2015 4:36:23 PM			1			11/21/2015 11:25:42 AM

Click Management tab to view the following information: ***Host Name, VM Name, Automatic Start Action, Automatic Start Delay, Automatic Stop Action, Smart Paging File Location, Snapshot File Location***.



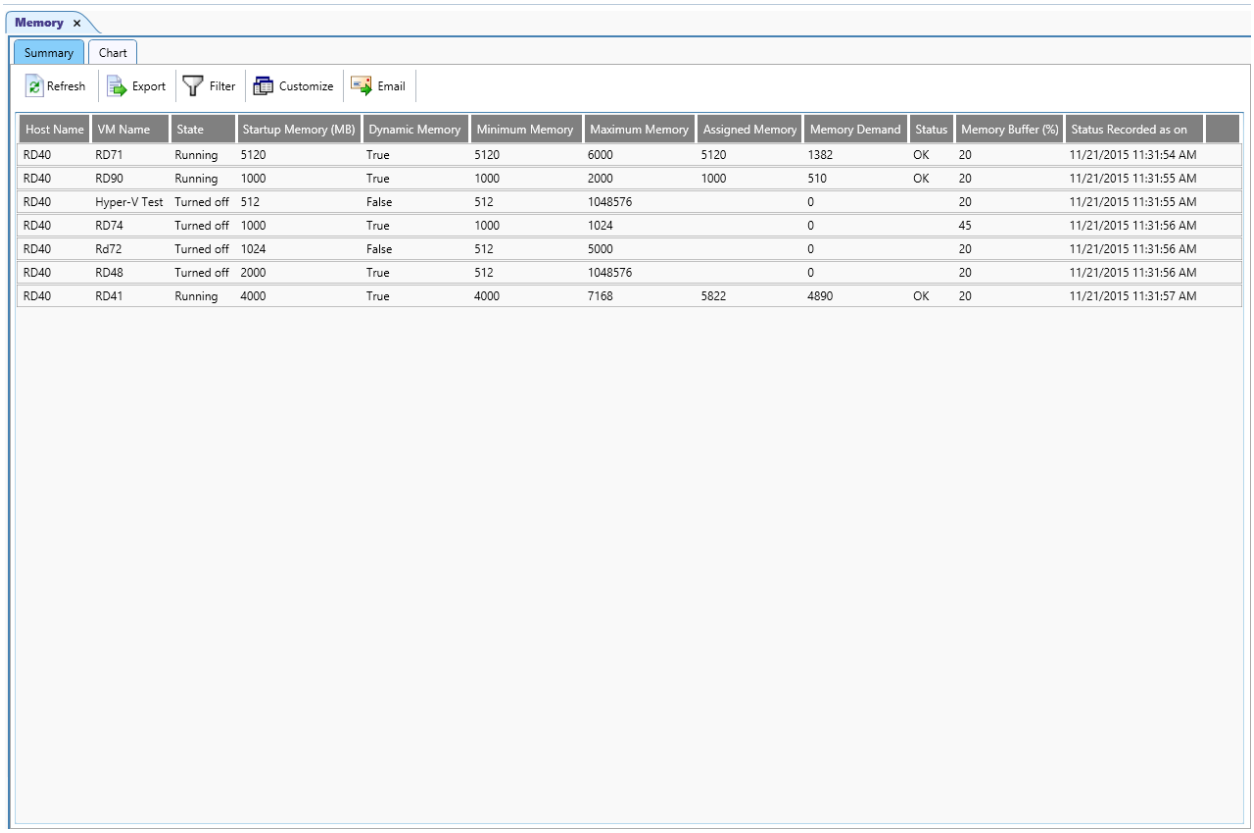
Host Name	VM Name	State	Automatic Start Action	Automatic Start Delay	Automatic Stop	Smart Paging File Location	Snapshot File Location	Status Recorded as on
RD40	RD71	Running	Nothing	0 Seconds	Save state.	D:\Vm Store\RD71\RD71	D:\Vm Store\RD71\RD71	11/21/2015 11:22:46 AM
RD40	RD90	Running	Nothing	0 Seconds	Save state.	D:\Vm Store\RD90\RD	D:\Vm Store\RD90\RD	11/21/2015 11:22:46 AM
RD40	Hyper-V Test	Turned off	Restart if previously activ	0 Seconds	Save state.	C:\ProgramData\Microsoft\Windows\Hyper-V	C:\ProgramData\Microsoft\Windows\Hyper-V	11/21/2015 11:22:46 AM
RD40	RD74	Turned off	Restart if previously activ	0 Seconds	Save state.	D:\Vm Store\RD74	D:\Vm Store\RD74	11/21/2015 11:22:46 AM
RD40	Rd72	Turned off	Restart if previously activ	0 Seconds	Save state.	D:\Vm Store\RD72\Rd72	D:\Vm Store\RD72\Rd72	11/21/2015 11:22:46 AM
RD40	RD48	Turned off	Restart if previously activ	0 Seconds	Save state.	D:\Vm Store\RD48\RD48	D:\Vm Store\RD48\RD48	11/21/2015 11:22:46 AM
RD40	RD41	Running	Restart if previously activ	0 Seconds	Save state.	D:\Vm Store\RD41\RD41	D:\Vm Store\RD41\RD41	11/21/2015 11:22:46 AM

How to view Memory Reports?

Click on 

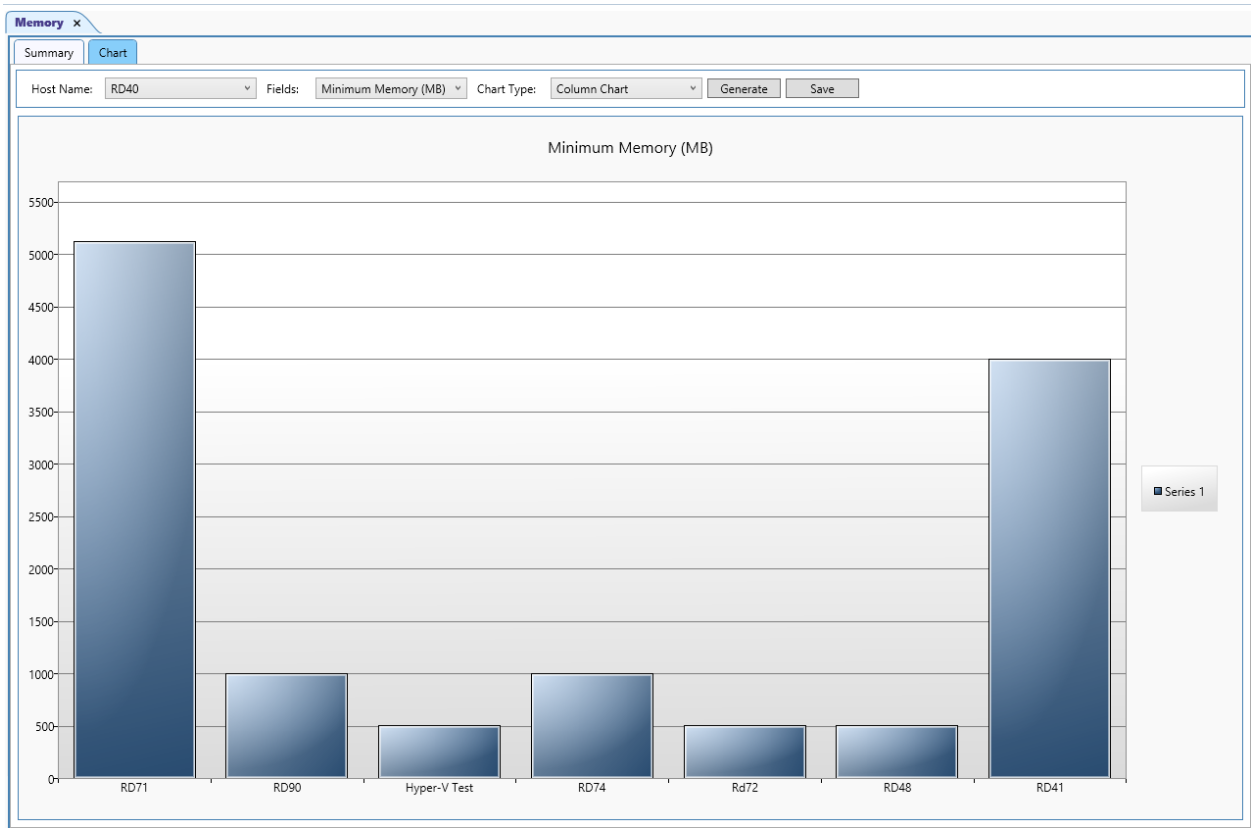
under VM Reports to view Memory information available under each tab as listed below.

Click Summary tab to view the following information: ***Host Name, VM Name, State, Startup Memory (MB), Dynamic Memory Enabled, Minimum Memory (MB), Maximum Memory (MB), Assigned Memory (MB), Memory Demand (MB), Status, Memory Buffer (%), Memory Weight, Status Report as on.***



Host Name	VM Name	State	Startup Memory (MB)	Dynamic Memory	Minimum Memory	Maximum Memory	Assigned Memory	Memory Demand	Status	Memory Buffer (%)	Status Recorded as on
RD40	RD71	Running	5120	True	5120	6000	5120	1382	OK	20	11/21/2015 11:31:54 AM
RD40	RD90	Running	1000	True	1000	2000	1000	510	OK	20	11/21/2015 11:31:55 AM
RD40	Hyper-V Test	Turned off	512	False	512	1048576		0		20	11/21/2015 11:31:55 AM
RD40	RD74	Turned off	1000	True	1000	1024		0		45	11/21/2015 11:31:56 AM
RD40	Rd72	Turned off	1024	False	512	5000		0		20	11/21/2015 11:31:56 AM
RD40	RD48	Turned off	2000	True	512	1048576		0		20	11/21/2015 11:31:56 AM
RD40	RD41	Running	4000	True	4000	7168	5822	4890	OK	20	11/21/2015 11:31:57 AM

Click Chart tab to view the following information:

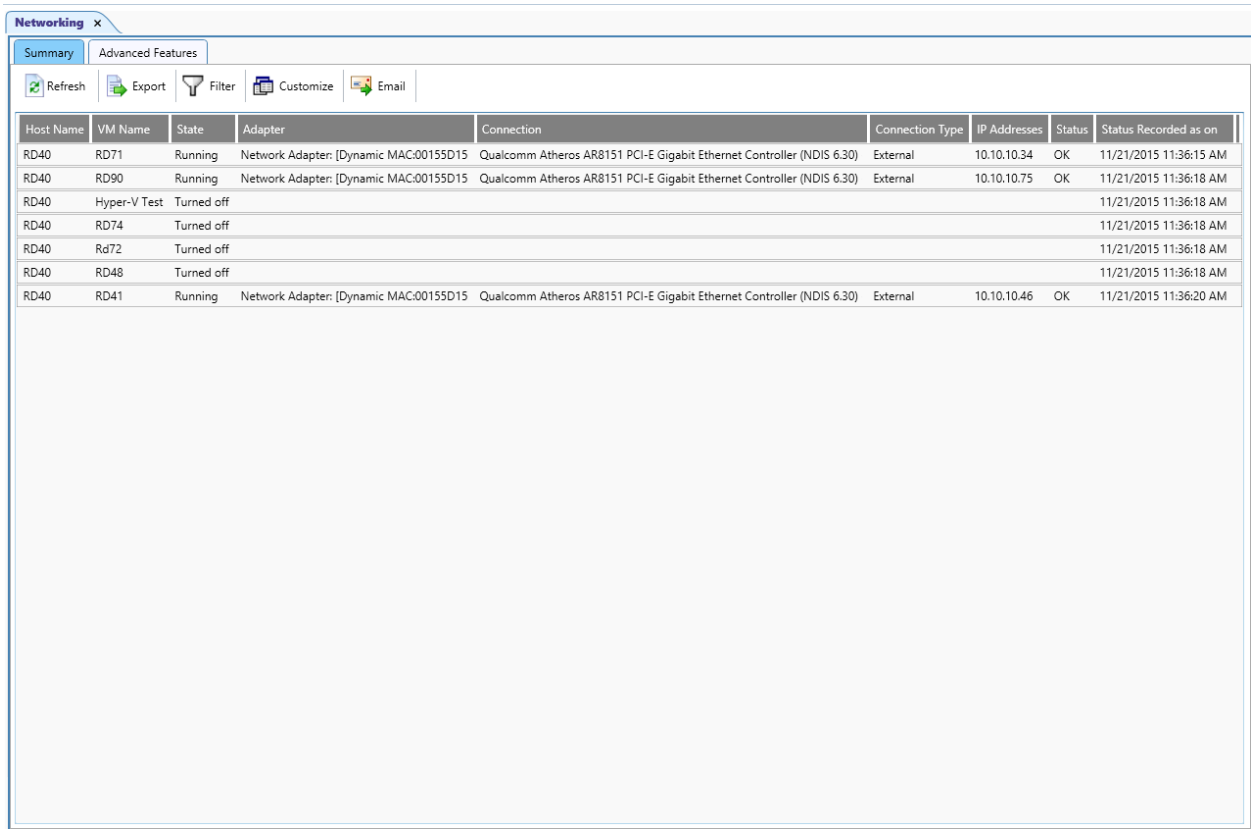

Memory
Summary
Chart
Host Name:
RD40
Fields:
Minimum Memory (MB)
Chart Type:
Column Chart
Generate
Save
Minimum Memory (MB)
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
RD71
RD90
Hyper-V Test
RD74
Rd72
RD48
RD41
Series 1

How to view Networking Reports?

Click on

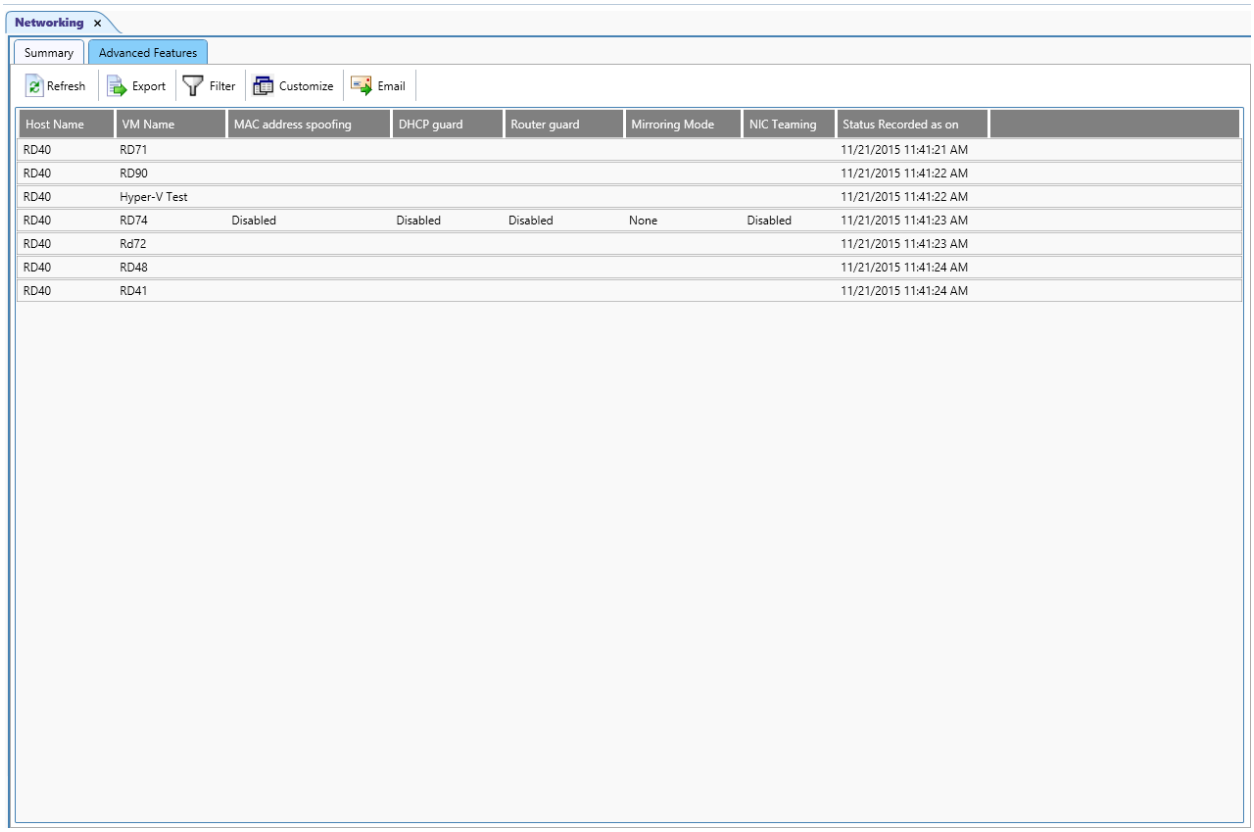
under VM Reports to view Networking information available under each tab as listed below.

Click Summary tab to view the following information: ***Host Name, VM Name, State, Adapter, Connection, Connection Type, IP Address, Status, Status Recorded as on***.

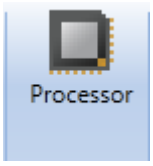


Host Name	VM Name	State	Adapter	Connection	Connection Type	IP Addresses	Status	Status Recorded as on
RD40	RD71	Running	Network Adapter: [Dynamic MAC:00155D15	Qualcomm Atheros AR8151 PCI-E Gigabit Ethernet Controller (NDIS 6.30)	External	10.10.10.34	OK	11/21/2015 11:36:15 AM
RD40	RD90	Running	Network Adapter: [Dynamic MAC:00155D15	Qualcomm Atheros AR8151 PCI-E Gigabit Ethernet Controller (NDIS 6.30)	External	10.10.10.75	OK	11/21/2015 11:36:18 AM
RD40	Hyper-V Test	Turned off						11/21/2015 11:36:18 AM
RD40	RD74	Turned off						11/21/2015 11:36:18 AM
RD40	Rd72	Turned off						11/21/2015 11:36:18 AM
RD40	RD48	Turned off						11/21/2015 11:36:18 AM
RD40	RD41	Running	Network Adapter: [Dynamic MAC:00155D15	Qualcomm Atheros AR8151 PCI-E Gigabit Ethernet Controller (NDIS 6.30)	External	10.10.10.46	OK	11/21/2015 11:36:20 AM

Click Advanced Features tab to view the following information: ***Host Name, VM Name, MAC Address Spoofing, DHCP guard, Router guard, Mirroring Mode, NIC Teaming, Status Recorded as on***.

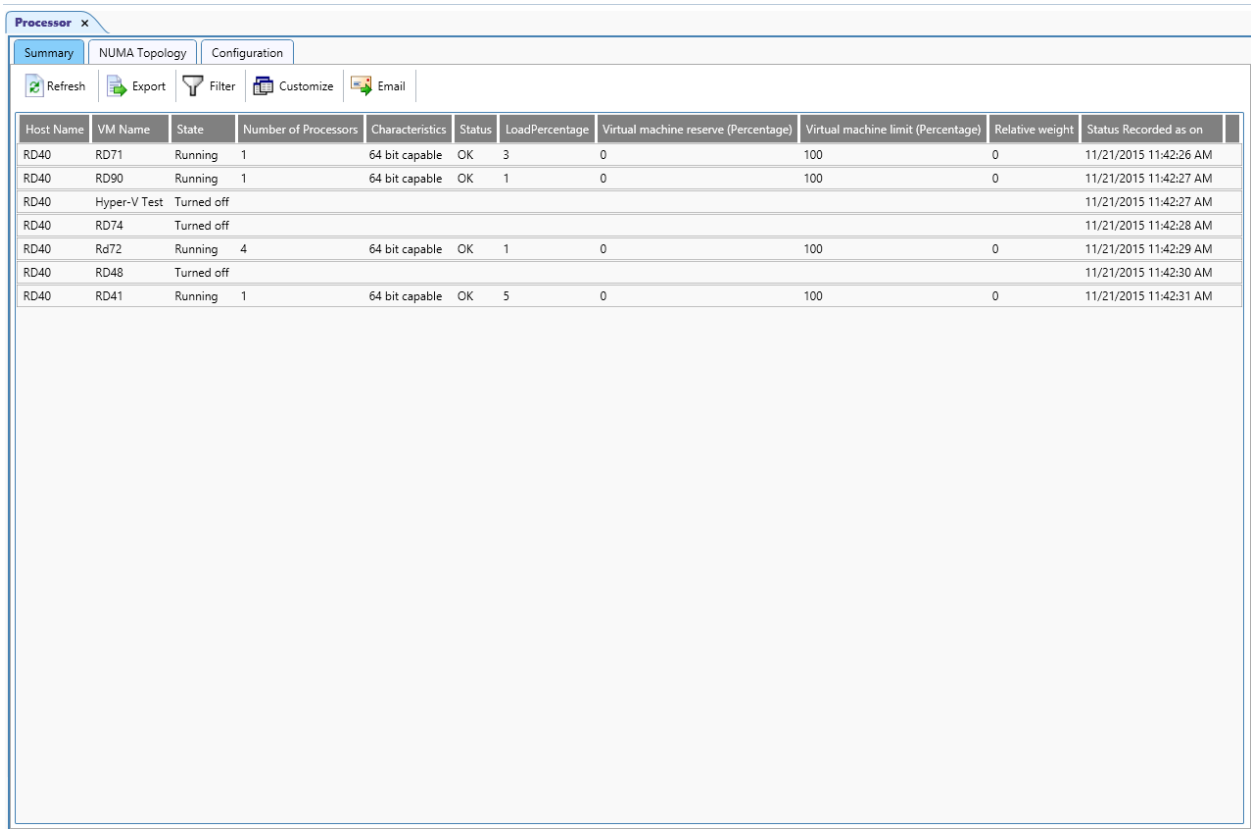

Networking
Summary
Advanced Features
Refresh
Export
Filter
Customize
Email
Host Name
VM Name
MAC address spoofing
DHCP guard
Router guard
Mirroring Mode
NIC Teaming
Status Recorded as on
RD40 RD71 11/21/2015 11:41:21 AM
RD40 RD90 11/21/2015 11:41:22 AM
RD40 Hyper-V Test 11/21/2015 11:41:22 AM
RD40 RD74 Disabled Disabled Disabled None Disabled 11/21/2015 11:41:23 AM
RD40 Rd72 11/21/2015 11:41:23 AM
RD40 RD48 11/21/2015 11:41:24 AM
RD40 RD41 11/21/2015 11:41:24 AM

How to view Processor Reports?



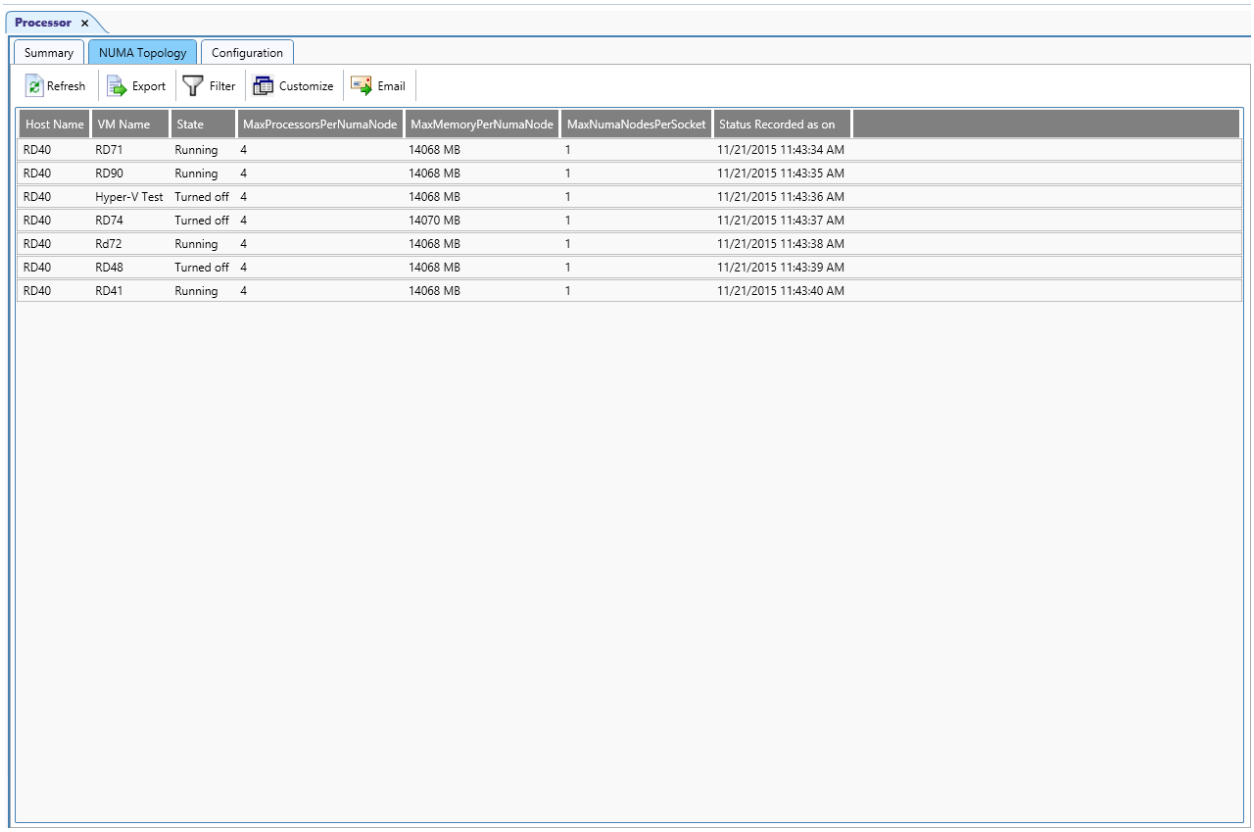
Click on under VM Reports to view Processor information available under each tab as listed below.

Click Summary tab to view the following information: ***Host Name, VM Name, State, Number of Processor, Characteristics, Status, LoadPercentage, Virtual machine reserve (Percentage), Virtual machine limit(Percentage), Relative weight, Status Recorded as on***.

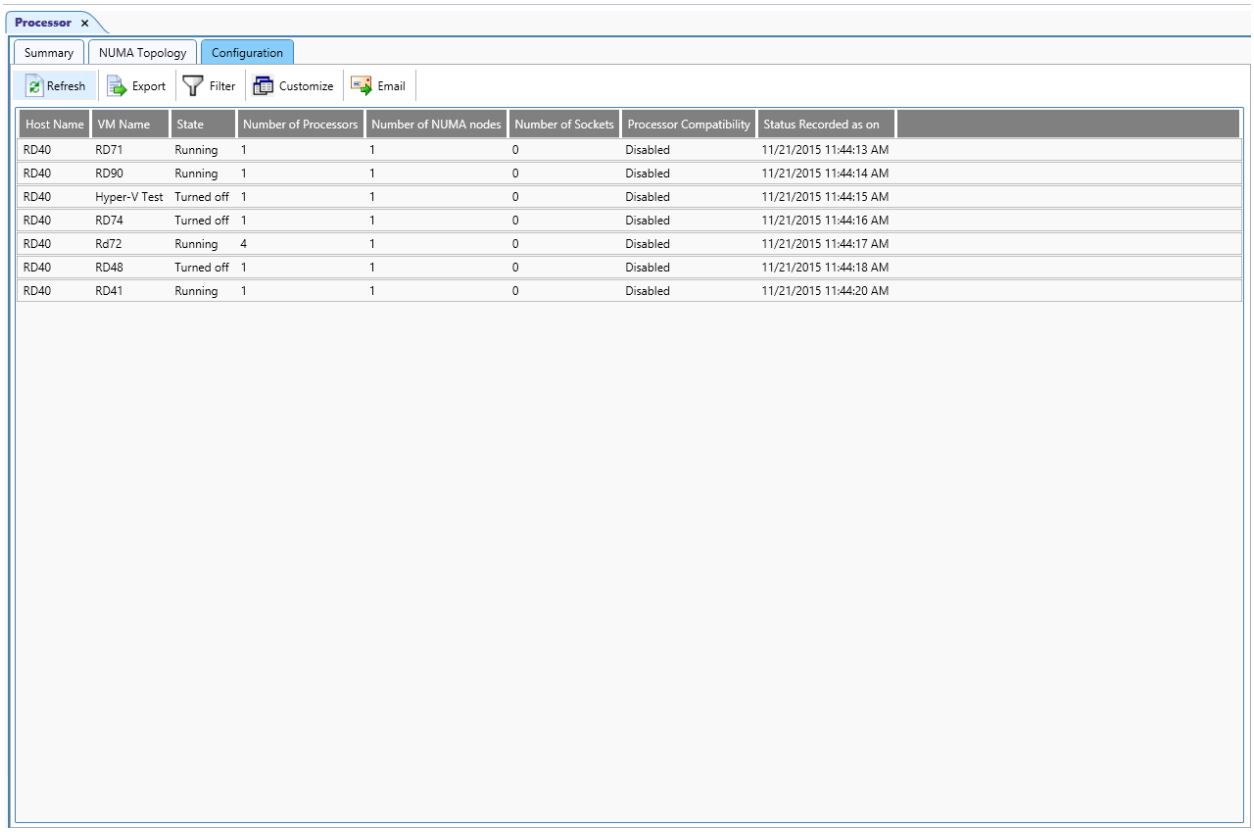


Host Name	VM Name	State	Number of Processors	Characteristics	Status	LoadPercentage	Virtual machine reserve (Percentage)	Virtual machine limit (Percentage)	Relative weight	Status Recorded as on
RD40	RD71	Running	1	64 bit capable	OK	3	0	100	0	11/21/2015 11:42:26 AM
RD40	RD90	Running	1	64 bit capable	OK	1	0	100	0	11/21/2015 11:42:27 AM
RD40	Hyper-V Test	Turned off								11/21/2015 11:42:27 AM
RD40	RD74	Turned off								11/21/2015 11:42:28 AM
RD40	Rd72	Running	4	64 bit capable	OK	1	0	100	0	11/21/2015 11:42:29 AM
RD40	RD48	Turned off								11/21/2015 11:42:30 AM
RD40	RD41	Running	1	64 bit capable	OK	5	0	100	0	11/21/2015 11:42:31 AM

Click NUMA Topology tab to view the following information: ***Host Name, VM Name, State, MaxProcessorPerNumaNode, MaxMemoryPerNumaNode, MaxNumaNodesPerSocket, Status Recorded as on***.



Click Configuration tab to view the following information: ***Host Name, VM Name, State, Number of Processor, Number of NUMA nodes, Number of Sockets, Processor Compatibility, Status Recorded as on***.



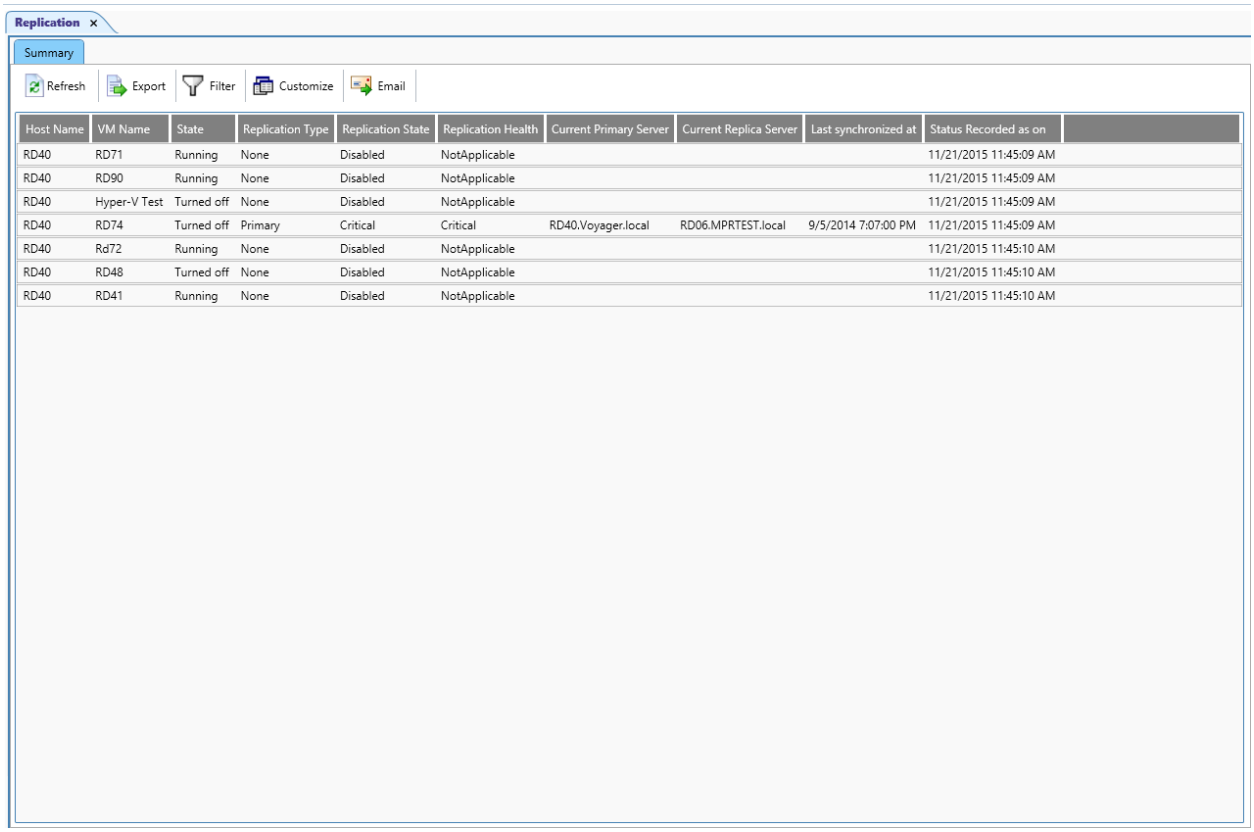
Host Name	VM Name	State	Number of Processors	Number of NUMA nodes	Number of Sockets	Processor Compatibility	Status Recorded as on
RD40	RD71	Running	1	1	0	Disabled	11/21/2015 11:44:13 AM
RD40	RD90	Running	1	1	0	Disabled	11/21/2015 11:44:14 AM
RD40	Hyper-V Test	Turned off	1	1	0	Disabled	11/21/2015 11:44:15 AM
RD40	RD74	Turned off	1	1	0	Disabled	11/21/2015 11:44:16 AM
RD40	Rd72	Running	4	1	0	Disabled	11/21/2015 11:44:17 AM
RD40	RD48	Turned off	1	1	0	Disabled	11/21/2015 11:44:18 AM
RD40	RD41	Running	1	1	0	Disabled	11/21/2015 11:44:20 AM

How to view Replication Reports?

Click on

under VM Reports to view Replication information available under each tab as listed below.

Click Summary tab to view the following information: ***Host Name, VM Name, State, Replication Type, Replication State, Replication Health, Current Primary Server, Current Replica Server, Last synchronized at, Status Recorded as on***.



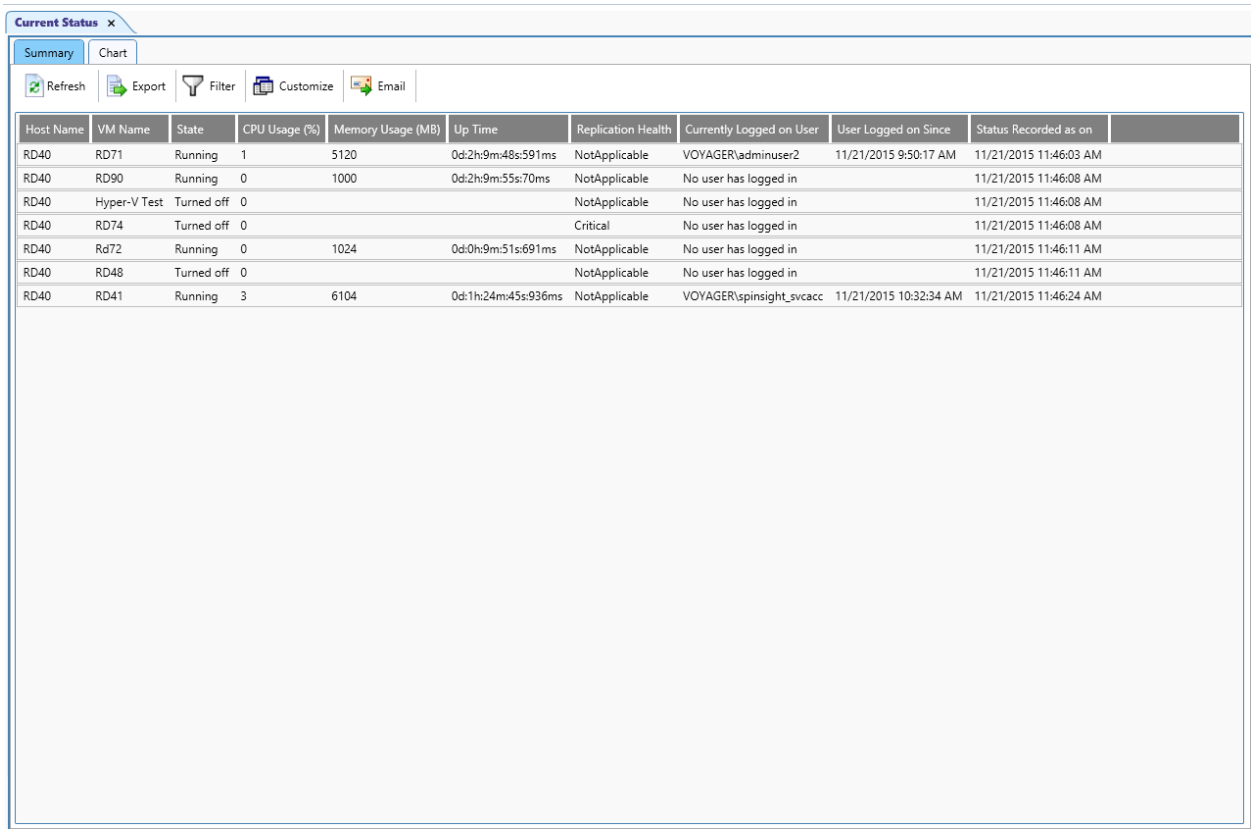
Host Name	VM Name	State	Replication Type	Replication State	Replication Health	Current Primary Server	Current Replica Server	Last synchronized at	Status Recorded as on
RD40	RD71	Running	None	Disabled	NotApplicable				11/21/2015 11:45:09 AM
RD40	RD90	Running	None	Disabled	NotApplicable				11/21/2015 11:45:09 AM
RD40	Hyper-V Test	Turned off	None	Disabled	NotApplicable				11/21/2015 11:45:09 AM
RD40	RD74	Turned off	Primary	Critical	Critical	RD40.Voyager.local	RD06.MPRTEST.local	9/5/2014 7:07:00 PM	11/21/2015 11:45:09 AM
RD40	Rd72	Running	None	Disabled	NotApplicable				11/21/2015 11:45:10 AM
RD40	RD48	Turned off	None	Disabled	NotApplicable				11/21/2015 11:45:10 AM
RD40	RD41	Running	None	Disabled	NotApplicable				11/21/2015 11:45:10 AM

How to view Current Status Reports?

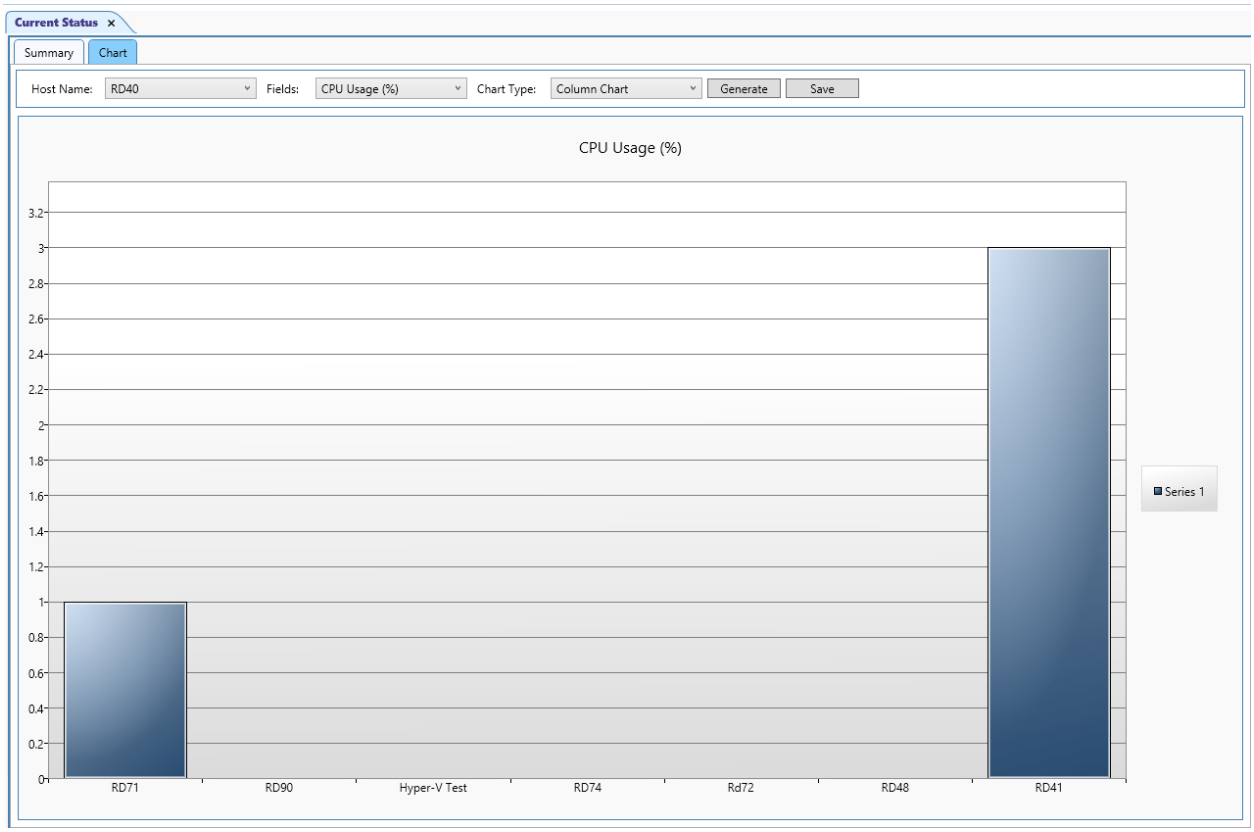
Click on

under VM Reports to view Current Status information available under each tab as listed below.

Click Summary tab to view the following information: ***Host Name, VM Name, State, CPU Usage (%), Memory Usage (MB), Up Time, Replication Health, Currently Logged on User, User Logged on Since, Status Recorded as on***.



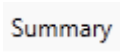
Click Chart tab to view the following information:



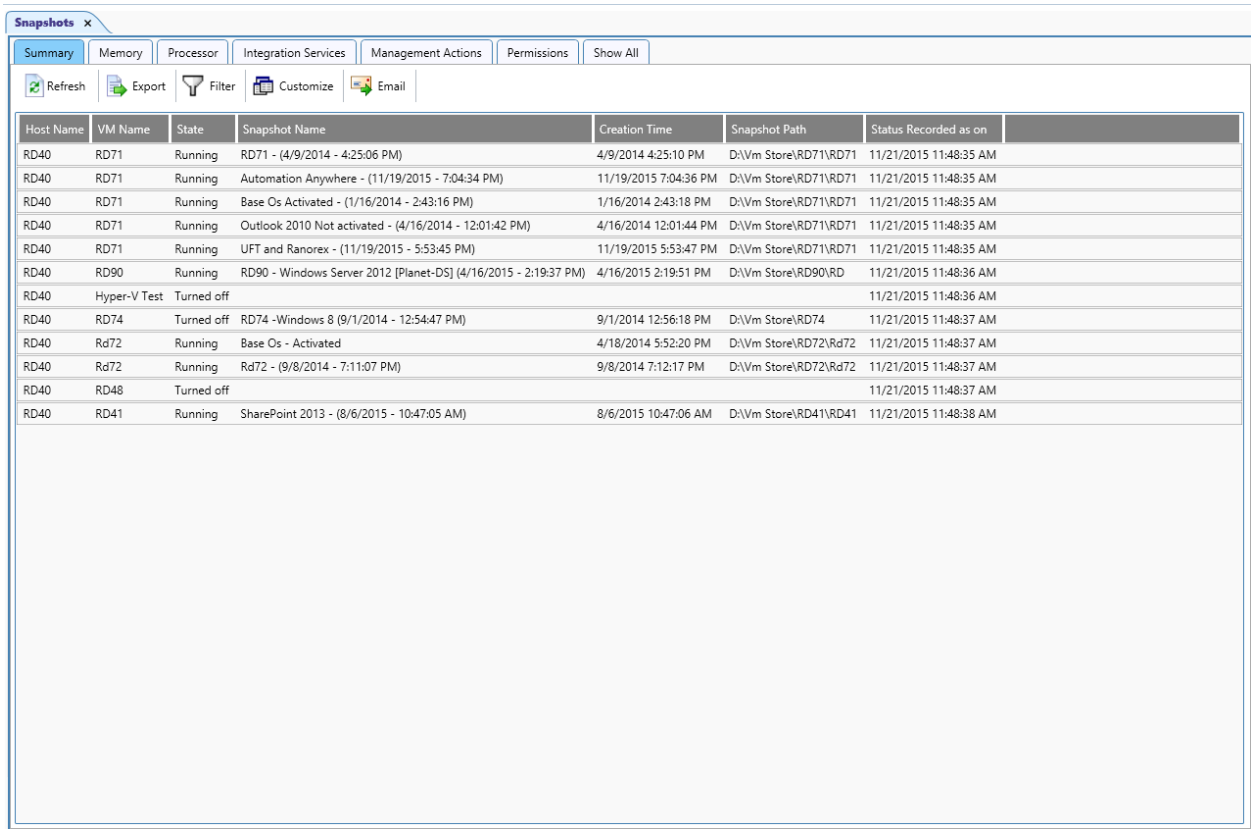
How to view Snapshots Reports?

Click on

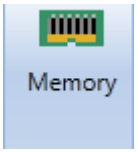
under VM Reports to view Snapshot information available under each tab as listed below.

Click 

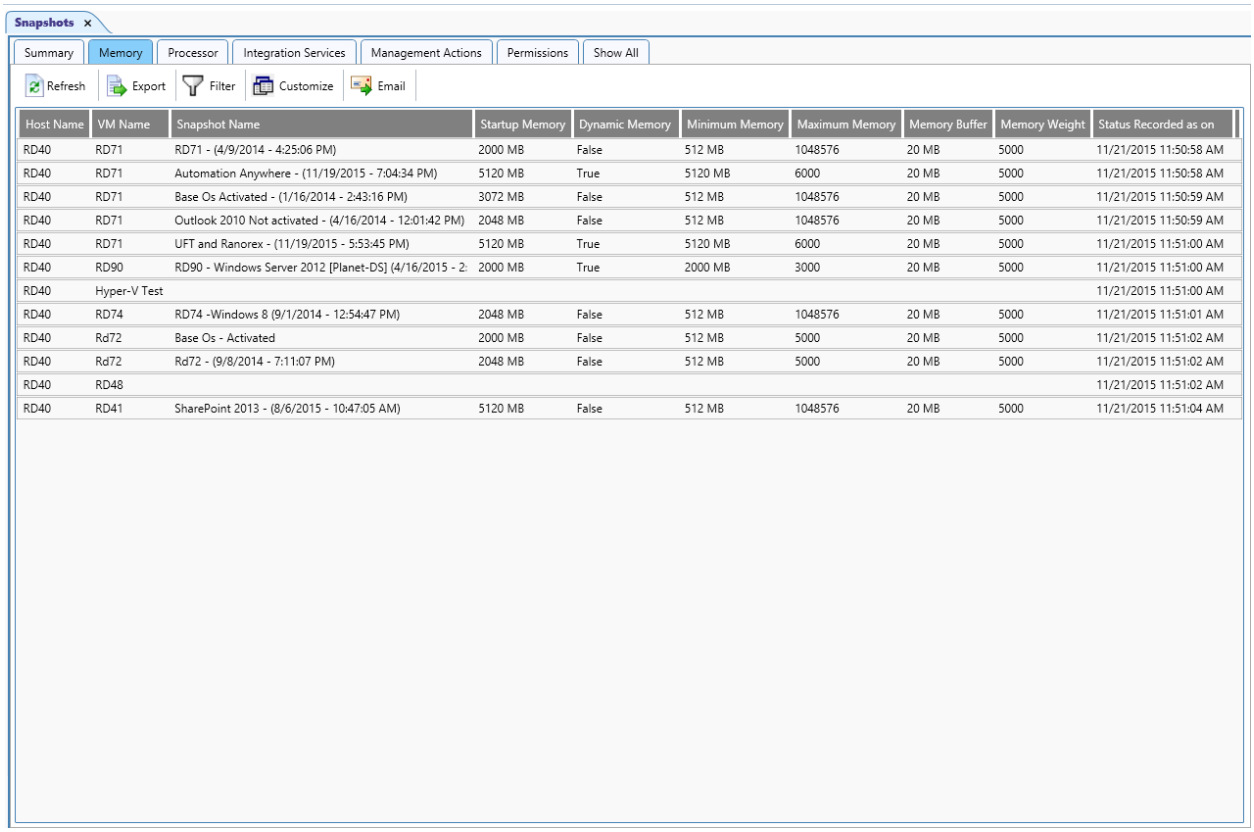
tab to view the following information: ***Host Name, VM Name, State, Snapshot Name, Creation Time, Snapshot Path, Status Recorded as on***.



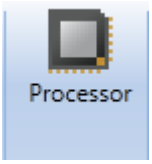
Host Name	VM Name	State	Snapshot Name	Creation Time	Snapshot Path	Status Recorded as on
RD40	RD71	Running	RD71 - (4/9/2014 - 4:25:06 PM)	4/9/2014 4:25:10 PM	D:\Vm Store\RD71\RD71	11/21/2015 11:48:35 AM
RD40	RD71	Running	Automation Anywhere - (11/19/2015 - 7:04:34 PM)	11/19/2015 7:04:36 PM	D:\Vm Store\RD71\RD71	11/21/2015 11:48:35 AM
RD40	RD71	Running	Base Os Activated - (1/16/2014 - 2:43:16 PM)	1/16/2014 2:43:18 PM	D:\Vm Store\RD71\RD71	11/21/2015 11:48:35 AM
RD40	RD71	Running	Outlook 2010 Not activated - (4/16/2014 - 12:01:42 PM)	4/16/2014 12:01:44 PM	D:\Vm Store\RD71\RD71	11/21/2015 11:48:35 AM
RD40	RD71	Running	UFT and Ranorex - (11/19/2015 - 5:53:45 PM)	11/19/2015 5:53:47 PM	D:\Vm Store\RD71\RD71	11/21/2015 11:48:35 AM
RD40	RD90	Running	RD90 - Windows Server 2012 [Planet-DS] (4/16/2015 - 2:19:37 PM)	4/16/2015 2:19:51 PM	D:\Vm Store\RD90\RD	11/21/2015 11:48:36 AM
RD40	Hyper-V Test	Turned off				11/21/2015 11:48:36 AM
RD40	RD74	Turned off	RD74 -Windows 8 (9/1/2014 - 12:54:47 PM)	9/1/2014 12:56:18 PM	D:\Vm Store\RD74	11/21/2015 11:48:37 AM
RD40	Rd72	Running	Base Os - Activated	4/18/2014 5:52:20 PM	D:\Vm Store\RD72\Rd72	11/21/2015 11:48:37 AM
RD40	Rd72	Running	Rd72 - (9/8/2014 - 7:11:07 PM)	9/8/2014 7:12:17 PM	D:\Vm Store\RD72\Rd72	11/21/2015 11:48:37 AM
RD40	RD48	Turned off				11/21/2015 11:48:37 AM
RD40	RD41	Running	SharePoint 2013 - (8/6/2015 - 10:47:05 AM)	8/6/2015 10:47:06 AM	D:\Vm Store\RD41\RD41	11/21/2015 11:48:38 AM

Click 

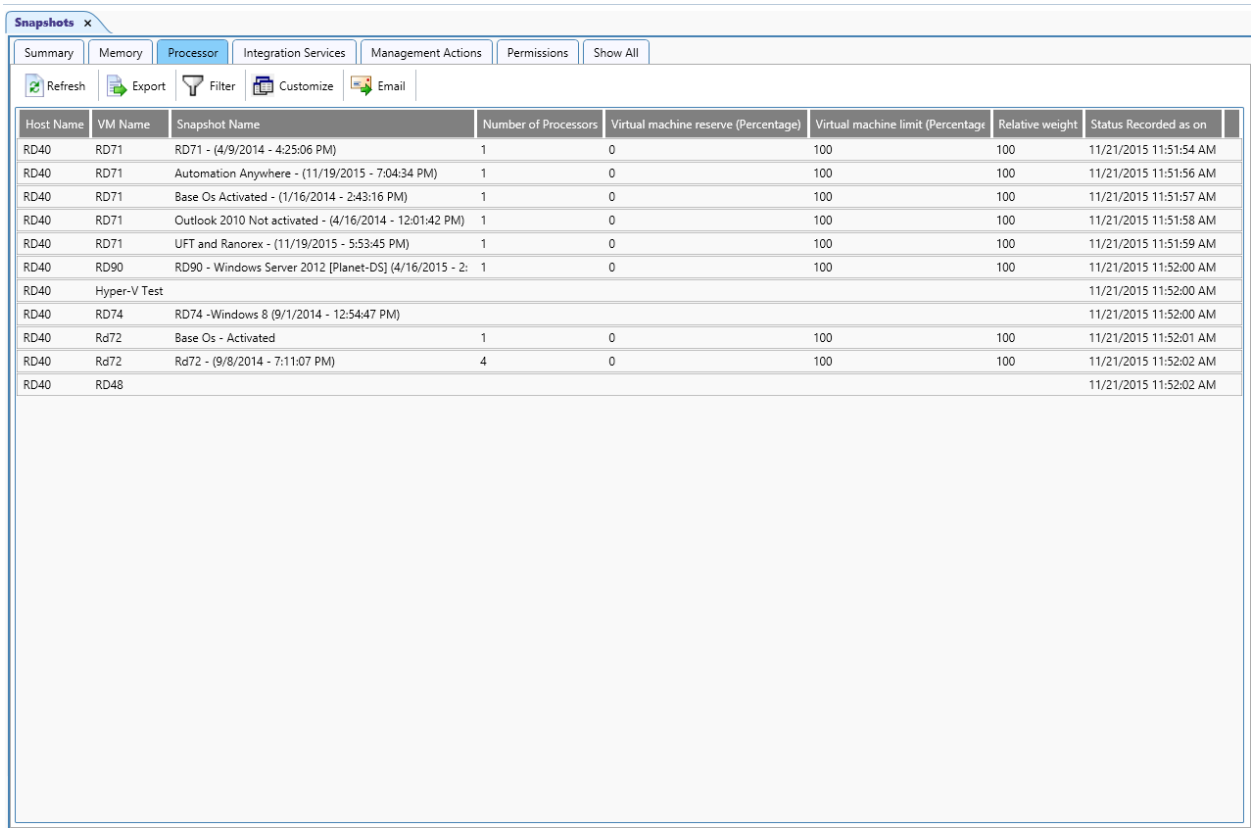
tab to view the following information: ***Host Name, VM Name, Snapshot Name, Startup Memory, Dynamic Memory Enabled, Minimum Memory, Maximum Memory, Memory Buffer, Memory Weight, Status Recorded as on***.



Host Name	VM Name	Snapshot Name	Startup Memory	Dynamic Memory	Minimum Memory	Maximum Memory	Memory Buffer	Memory Weight	Status Recorded as on
RD40	RD71	RD71 - (4/9/2014 - 4:25:06 PM)	2000 MB	False	512 MB	1048576	20 MB	5000	11/21/2015 11:50:58 AM
RD40	RD71	Automation Anywhere - (11/19/2015 - 7:04:34 PM)	5120 MB	True	5120 MB	6000	20 MB	5000	11/21/2015 11:50:58 AM
RD40	RD71	Base Os Activated - (1/16/2014 - 2:43:16 PM)	3072 MB	False	512 MB	1048576	20 MB	5000	11/21/2015 11:50:59 AM
RD40	RD71	Outlook 2010 Not activated - (4/16/2014 - 12:01:42 PM)	2048 MB	False	512 MB	1048576	20 MB	5000	11/21/2015 11:50:59 AM
RD40	RD71	UFT and Ranorex - (11/19/2015 - 5:53:45 PM)	5120 MB	True	5120 MB	6000	20 MB	5000	11/21/2015 11:51:00 AM
RD40	RD90	RD90 - Windows Server 2012 [Planet-DS] (4/16/2015 - 2:	2000 MB	True	2000 MB	3000	20 MB	5000	11/21/2015 11:51:00 AM
RD40	Hyper-V Test								11/21/2015 11:51:00 AM
RD40	RD74	RD74 -Windows 8 (9/1/2014 - 12:54:47 PM)	2048 MB	False	512 MB	1048576	20 MB	5000	11/21/2015 11:51:01 AM
RD40	Rd72	Base Os - Activated	2000 MB	False	512 MB	5000	20 MB	5000	11/21/2015 11:51:02 AM
RD40	Rd72	Rd72 - (9/8/2014 - 7:11:07 PM)	2048 MB	False	512 MB	5000	20 MB	5000	11/21/2015 11:51:02 AM
RD40	RD48								11/21/2015 11:51:02 AM
RD40	RD41	SharePoint 2013 - (8/6/2015 - 10:47:05 AM)	5120 MB	False	512 MB	1048576	20 MB	5000	11/21/2015 11:51:04 AM

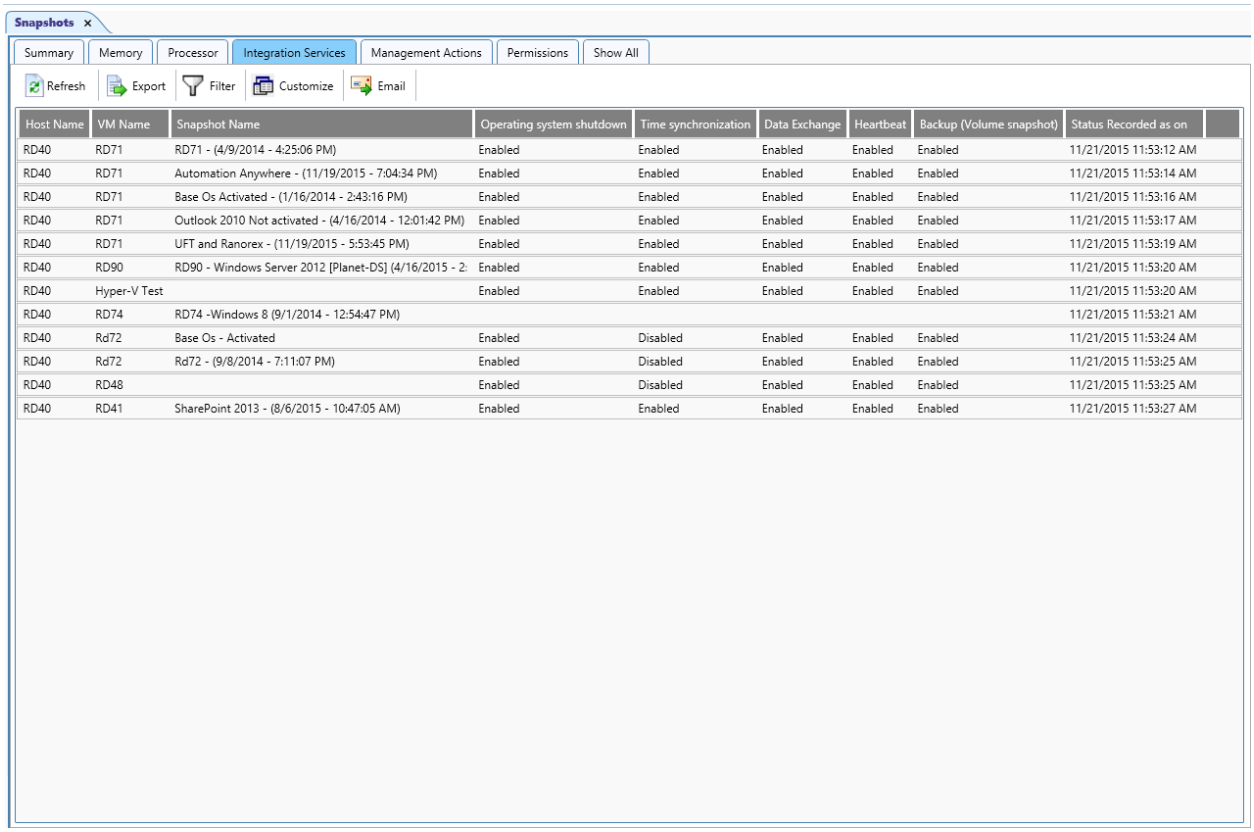


Click tab to view the following information: ***Host Name, VM Name, Snapshot Name, Number of Processors, Virtual machine reserve (Percentage), Virtual machine limit (Percentage), Relative weight, Status Recorded as on***.



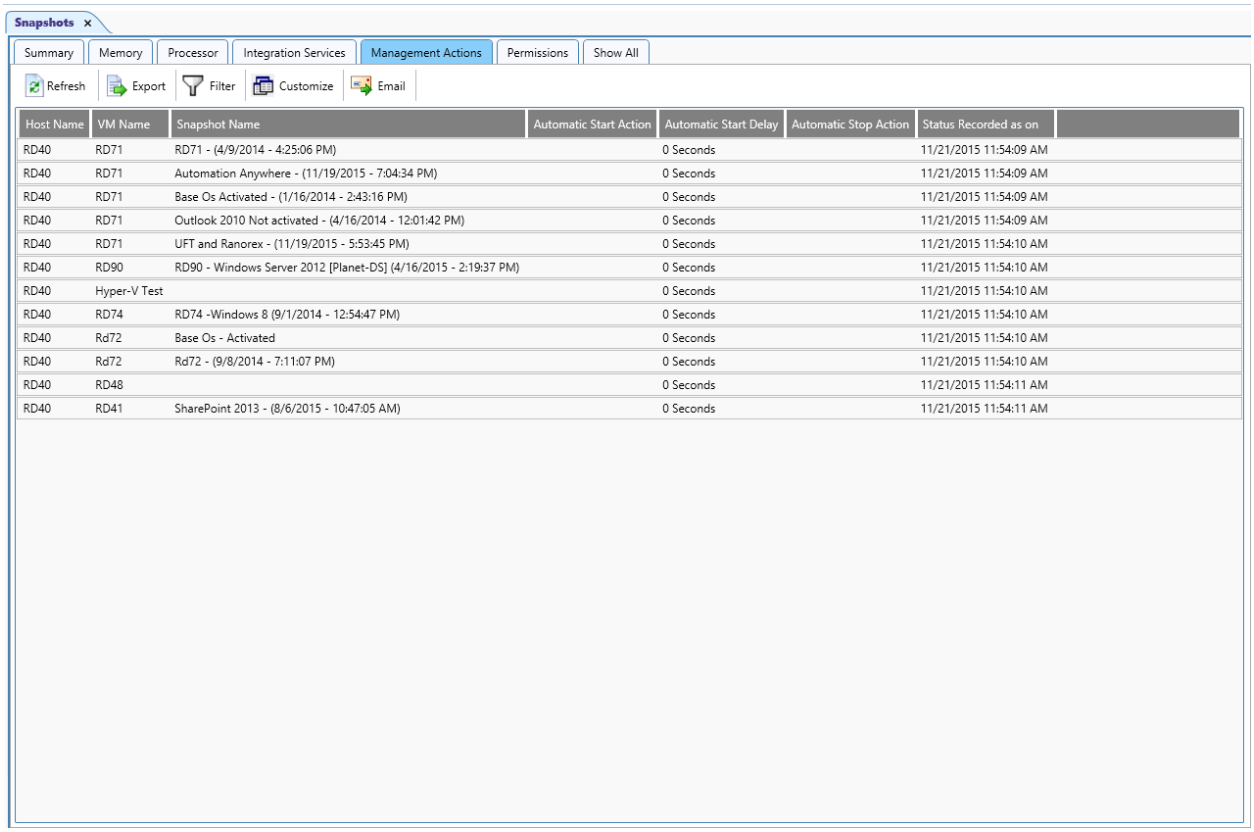
Host Name	VM Name	Snapshot Name	Number of Processors	Virtual machine reserve (Percentage)	Virtual machine limit (Percentage	Relative weight	Status Recorded as on
RD40	RD71	RD71 - (4/9/2014 - 4:25:06 PM)	1	0	100	100	11/21/2015 11:51:54 AM
RD40	RD71	Automation Anywhere - (11/19/2015 - 7:04:34 PM)	1	0	100	100	11/21/2015 11:51:56 AM
RD40	RD71	Base Os Activated - (1/16/2014 - 2:43:16 PM)	1	0	100	100	11/21/2015 11:51:57 AM
RD40	RD71	Outlook 2010 Not activated - (4/16/2014 - 12:01:42 PM)	1	0	100	100	11/21/2015 11:51:58 AM
RD40	RD71	UFT and Ranorex - (11/19/2015 - 5:53:45 PM)	1	0	100	100	11/21/2015 11:51:59 AM
RD40	RD90	RD90 - Windows Server 2012 [Planet-DS] (4/16/2015 - 2:	1	0	100	100	11/21/2015 11:52:00 AM
RD40	Hyper-V Test						11/21/2015 11:52:00 AM
RD40	RD74	RD74 -Windows 8 (9/1/2014 - 12:54:47 PM)					11/21/2015 11:52:00 AM
RD40	Rd72	Base Os - Activated	1	0	100	100	11/21/2015 11:52:01 AM
RD40	Rd72	Rd72 - (9/8/2014 - 7:11:07 PM)	4	0	100	100	11/21/2015 11:52:02 AM
RD40	RD48						11/21/2015 11:52:02 AM

Click Integration Services tab to view the following information: ***Host Name, VM Name, Snapshot Name, Number of Processors, Virtual machine reserve (Percentage), Virtual machine limit (Percentage), Relative weight, Status Recorded as on***.

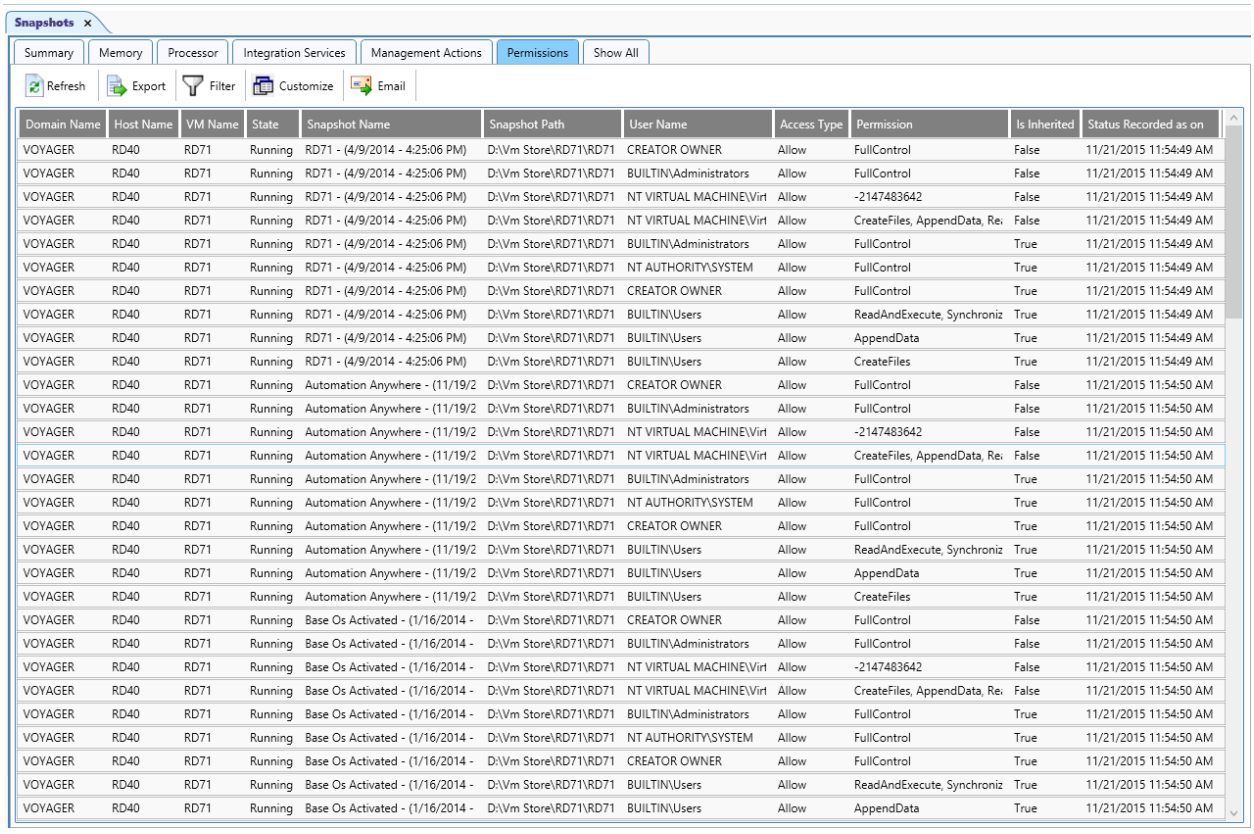


Host Name	VM Name	Snapshot Name	Operating system shutdown	Time synchronization	Data Exchange	Heartbeat	Backup (Volume snapshot)	Status Recorded as on
RD40	RD71	RD71 - (4/9/2014 - 4:25:06 PM)	Enabled	Enabled	Enabled	Enabled	Enabled	11/21/2015 11:53:12 AM
RD40	RD71	Automation Anywhere - (11/19/2015 - 7:04:34 PM)	Enabled	Enabled	Enabled	Enabled	Enabled	11/21/2015 11:53:14 AM
RD40	RD71	Base Os Activated - (1/16/2014 - 2:43:16 PM)	Enabled	Enabled	Enabled	Enabled	Enabled	11/21/2015 11:53:16 AM
RD40	RD71	Outlook 2010 Not activated - (4/16/2014 - 12:01:42 PM)	Enabled	Enabled	Enabled	Enabled	Enabled	11/21/2015 11:53:17 AM
RD40	RD71	UFT and Ranorex - (11/19/2015 - 5:53:45 PM)	Enabled	Enabled	Enabled	Enabled	Enabled	11/21/2015 11:53:19 AM
RD40	RD90	RD90 - Windows Server 2012 [Planet-DS] (4/16/2015 - 2:	Enabled	Enabled	Enabled	Enabled	Enabled	11/21/2015 11:53:20 AM
RD40	Hyper-V Test		Enabled	Enabled	Enabled	Enabled	Enabled	11/21/2015 11:53:20 AM
RD40	RD74	RD74 -Windows 8 (9/1/2014 - 12:54:47 PM)						11/21/2015 11:53:21 AM
RD40	Rd72	Base Os - Activated	Enabled	Disabled	Enabled	Enabled	Enabled	11/21/2015 11:53:24 AM
RD40	Rd72	Rd72 - (9/8/2014 - 7:11:07 PM)	Enabled	Disabled	Enabled	Enabled	Enabled	11/21/2015 11:53:25 AM
RD40	RD48		Enabled	Disabled	Enabled	Enabled	Enabled	11/21/2015 11:53:25 AM
RD40	RD41	SharePoint 2013 - (8/6/2015 - 10:47:05 AM)	Enabled	Enabled	Enabled	Enabled	Enabled	11/21/2015 11:53:27 AM

Click Management Actions tab to view the following information: ***Host Name, VM Name, Snapshot Name, Number of Processors, Virtual machine reserve (Percentage), Virtual machine limit (Percentage), Relative weight, Status Recorded as on.***

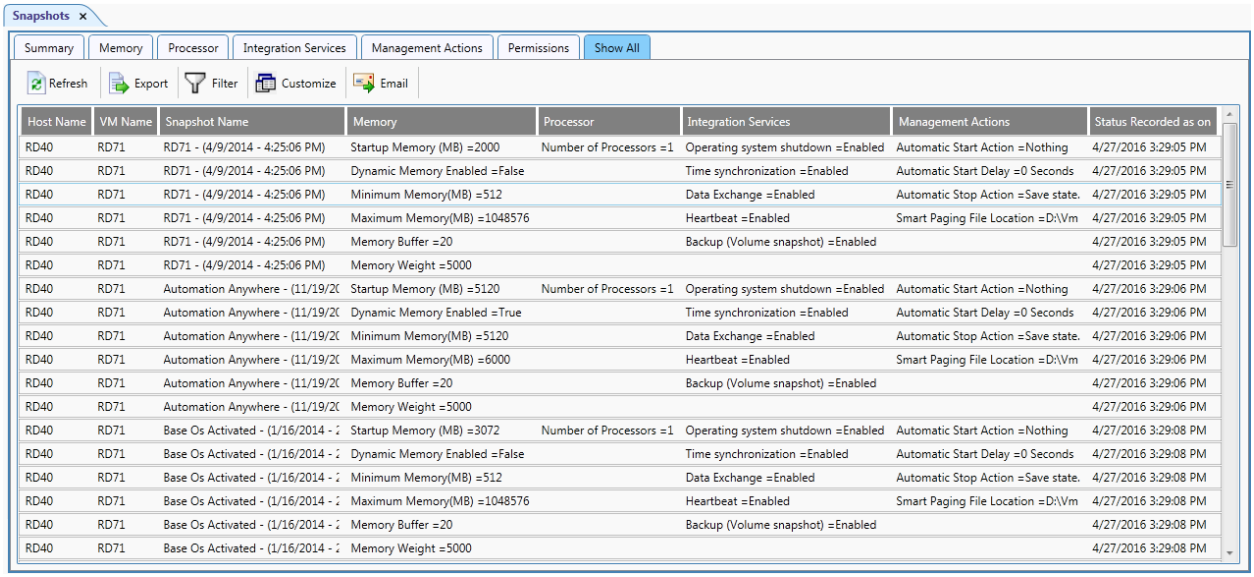


Click Permissions tab to view the following information: ***Host Name, VM Name, Snapshot Name, Number of Processors, Virtual machine reserve (Percentage), Virtual machine limit (Percentage), Relative weight, Status Recorded as on***.



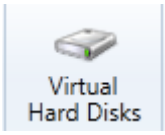
Domain Name	Host Name	VM Name	State	Snapshot Name	Snapshot Path	User Name	Access Type	Permission	Is Inherited	Status Recorded as on
VOYAGER	RD40	RD71	Running	RD71 - (4/9/2014 - 4:25:06 PM)	D:\Vm Store\RD71\RD71	CREATOR OWNER	Allow	FullControl	False	11/21/2015 11:54:49 AM
VOYAGER	RD40	RD71	Running	RD71 - (4/9/2014 - 4:25:06 PM)	D:\Vm Store\RD71\RD71	BUILTIN\Administrators	Allow	FullControl	False	11/21/2015 11:54:49 AM
VOYAGER	RD40	RD71	Running	RD71 - (4/9/2014 - 4:25:06 PM)	D:\Vm Store\RD71\RD71	NT VIRTUAL MACHINE\Virt	Allow	-2147483642	False	11/21/2015 11:54:49 AM
VOYAGER	RD40	RD71	Running	RD71 - (4/9/2014 - 4:25:06 PM)	D:\Vm Store\RD71\RD71	NT VIRTUAL MACHINE\Virt	Allow	CreateFiles, AppendData, Re	False	11/21/2015 11:54:49 AM
VOYAGER	RD40	RD71	Running	RD71 - (4/9/2014 - 4:25:06 PM)	D:\Vm Store\RD71\RD71	BUILTIN\Administrators	Allow	FullControl	True	11/21/2015 11:54:49 AM
VOYAGER	RD40	RD71	Running	RD71 - (4/9/2014 - 4:25:06 PM)	D:\Vm Store\RD71\RD71	NT AUTHORITY\SYSTEM	Allow	FullControl	True	11/21/2015 11:54:49 AM
VOYAGER	RD40	RD71	Running	RD71 - (4/9/2014 - 4:25:06 PM)	D:\Vm Store\RD71\RD71	CREATOR OWNER	Allow	FullControl	True	11/21/2015 11:54:49 AM
VOYAGER	RD40	RD71	Running	RD71 - (4/9/2014 - 4:25:06 PM)	D:\Vm Store\RD71\RD71	BUILTIN\Users	Allow	ReadAndExecute, Synchroniz	True	11/21/2015 11:54:49 AM
VOYAGER	RD40	RD71	Running	RD71 - (4/9/2014 - 4:25:06 PM)	D:\Vm Store\RD71\RD71	BUILTIN\Users	Allow	AppendData	True	11/21/2015 11:54:49 AM
VOYAGER	RD40	RD71	Running	RD71 - (4/9/2014 - 4:25:06 PM)	D:\Vm Store\RD71\RD71	BUILTIN\Users	Allow	CreateFiles	True	11/21/2015 11:54:49 AM
VOYAGER	RD40	RD71	Running	Automation Anywhere - (11/19/2	D:\Vm Store\RD71\RD71	CREATOR OWNER	Allow	FullControl	False	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Automation Anywhere - (11/19/2	D:\Vm Store\RD71\RD71	BUILTIN\Administrators	Allow	FullControl	False	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Automation Anywhere - (11/19/2	D:\Vm Store\RD71\RD71	NT VIRTUAL MACHINE\Virt	Allow	-2147483642	False	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Automation Anywhere - (11/19/2	D:\Vm Store\RD71\RD71	NT VIRTUAL MACHINE\Virt	Allow	CreateFiles, AppendData, Re	False	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Automation Anywhere - (11/19/2	D:\Vm Store\RD71\RD71	BUILTIN\Administrators	Allow	FullControl	True	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Automation Anywhere - (11/19/2	D:\Vm Store\RD71\RD71	NT AUTHORITY\SYSTEM	Allow	FullControl	True	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Automation Anywhere - (11/19/2	D:\Vm Store\RD71\RD71	CREATOR OWNER	Allow	FullControl	True	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Automation Anywhere - (11/19/2	D:\Vm Store\RD71\RD71	BUILTIN\Users	Allow	ReadAndExecute, Synchroniz	True	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Automation Anywhere - (11/19/2	D:\Vm Store\RD71\RD71	BUILTIN\Users	Allow	AppendData	True	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Automation Anywhere - (11/19/2	D:\Vm Store\RD71\RD71	BUILTIN\Users	Allow	CreateFiles	True	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Base Os Activated - (1/16/2014 -	D:\Vm Store\RD71\RD71	CREATOR OWNER	Allow	FullControl	False	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Base Os Activated - (1/16/2014 -	D:\Vm Store\RD71\RD71	BUILTIN\Administrators	Allow	FullControl	False	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Base Os Activated - (1/16/2014 -	D:\Vm Store\RD71\RD71	NT VIRTUAL MACHINE\Virt	Allow	-2147483642	False	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Base Os Activated - (1/16/2014 -	D:\Vm Store\RD71\RD71	NT VIRTUAL MACHINE\Virt	Allow	CreateFiles, AppendData, Re	False	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Base Os Activated - (1/16/2014 -	D:\Vm Store\RD71\RD71	BUILTIN\Administrators	Allow	FullControl	True	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Base Os Activated - (1/16/2014 -	D:\Vm Store\RD71\RD71	NT AUTHORITY\SYSTEM	Allow	FullControl	True	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Base Os Activated - (1/16/2014 -	D:\Vm Store\RD71\RD71	CREATOR OWNER	Allow	FullControl	True	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Base Os Activated - (1/16/2014 -	D:\Vm Store\RD71\RD71	BUILTIN\Users	Allow	ReadAndExecute, Synchroniz	True	11/21/2015 11:54:50 AM
VOYAGER	RD40	RD71	Running	Base Os Activated - (1/16/2014 -	D:\Vm Store\RD71\RD71	BUILTIN\Users	Allow	AppendData	True	11/21/2015 11:54:50 AM

Click Show All tab to view the following information: ***Host Name, VM Name, Snapshot Name, Number of Processors, Virtual machine reserve (Percentage), Virtual machine limit (Percentage), Relative weight, Status Recorded as on***.



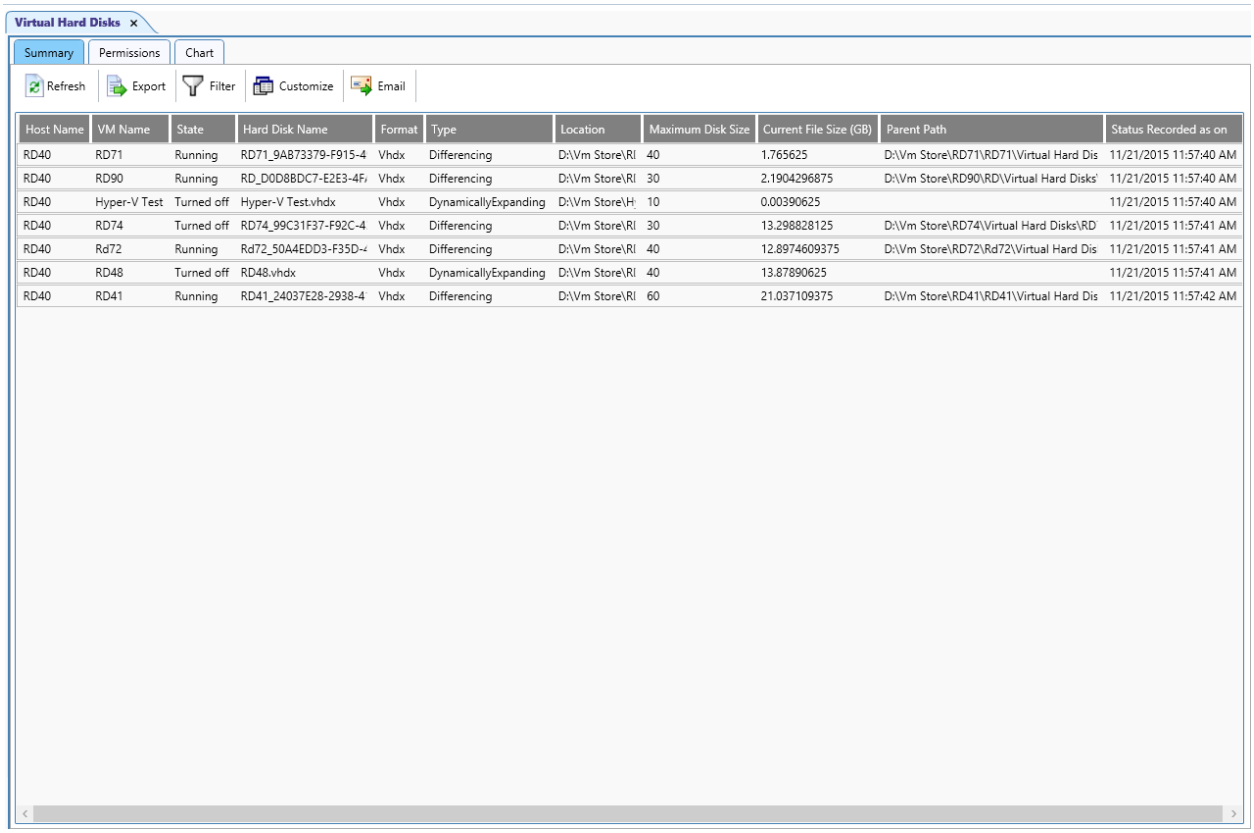
Host Name	VM Name	Snapshot Name	Memory	Processor	Integration Services	Management Actions	Status Recorded as on
RD40	RD71	RD71 - (4/9/2014 - 4:25:06 PM)	Startup Memory (MB) =2000	Number of Processors =1	Operating system shutdown =Enabled	Automatic Start Action =Nothing	4/27/2016 3:29:05 PM
RD40	RD71	RD71 - (4/9/2014 - 4:25:06 PM)	Dynamic Memory Enabled =False		Time synchronization =Enabled	Automatic Start Delay =0 Seconds	4/27/2016 3:29:05 PM
RD40	RD71	RD71 - (4/9/2014 - 4:25:06 PM)	Minimum Memory(MB) =512		Data Exchange =Enabled	Automatic Stop Action =Save state.	4/27/2016 3:29:05 PM
RD40	RD71	RD71 - (4/9/2014 - 4:25:06 PM)	Maximum Memory(MB) =1048576		Heartbeat =Enabled	Smart Paging File Location =D:\Vm	4/27/2016 3:29:05 PM
RD40	RD71	RD71 - (4/9/2014 - 4:25:06 PM)	Memory Buffer =20		Backup (Volume snapshot) =Enabled		4/27/2016 3:29:05 PM
RD40	RD71	RD71 - (4/9/2014 - 4:25:06 PM)	Memory Weight =5000				4/27/2016 3:29:05 PM
RD40	RD71	Automation Anywhere - (11/19/2(	Startup Memory (MB) =5120	Number of Processors =1	Operating system shutdown =Enabled	Automatic Start Action =Nothing	4/27/2016 3:29:06 PM
RD40	RD71	Automation Anywhere - (11/19/2(	Dynamic Memory Enabled =True		Time synchronization =Enabled	Automatic Start Delay =0 Seconds	4/27/2016 3:29:06 PM
RD40	RD71	Automation Anywhere - (11/19/2(	Minimum Memory(MB) =5120		Data Exchange =Enabled	Automatic Stop Action =Save state.	4/27/2016 3:29:06 PM
RD40	RD71	Automation Anywhere - (11/19/2(	Maximum Memory(MB) =6000		Heartbeat =Enabled	Smart Paging File Location =D:\Vm	4/27/2016 3:29:06 PM
RD40	RD71	Automation Anywhere - (11/19/2(	Memory Buffer =20		Backup (Volume snapshot) =Enabled		4/27/2016 3:29:06 PM
RD40	RD71	Automation Anywhere - (11/19/2(	Memory Weight =5000				4/27/2016 3:29:06 PM
RD40	RD71	Base Os Activated - (1/16/2014 - 2	Startup Memory (MB) =3072	Number of Processors =1	Operating system shutdown =Enabled	Automatic Start Action =Nothing	4/27/2016 3:29:08 PM
RD40	RD71	Base Os Activated - (1/16/2014 - 2	Dynamic Memory Enabled =False		Time synchronization =Enabled	Automatic Start Delay =0 Seconds	4/27/2016 3:29:08 PM
RD40	RD71	Base Os Activated - (1/16/2014 - 2	Minimum Memory(MB) =512		Data Exchange =Enabled	Automatic Stop Action =Save state.	4/27/2016 3:29:08 PM
RD40	RD71	Base Os Activated - (1/16/2014 - 2	Maximum Memory(MB) =1048576		Heartbeat =Enabled	Smart Paging File Location =D:\Vm	4/27/2016 3:29:08 PM
RD40	RD71	Base Os Activated - (1/16/2014 - 2	Memory Buffer =20		Backup (Volume snapshot) =Enabled		4/27/2016 3:29:08 PM
RD40	RD71	Base Os Activated - (1/16/2014 - 2	Memory Weight =5000				4/27/2016 3:29:08 PM

How to view Virtual Hard Disk Reports?

Click on 

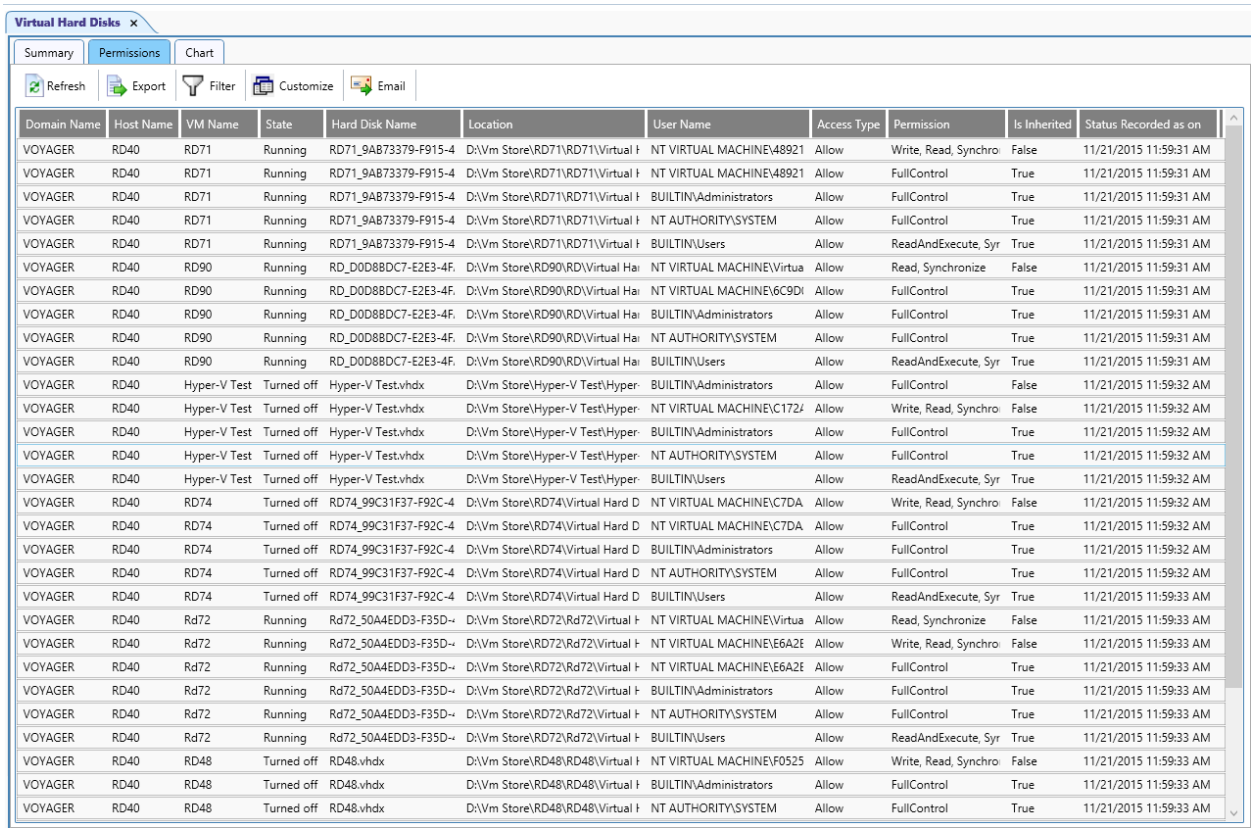
under VM Reports to view Virtual Hard Disks information available under each tab as listed below.

Click Summary tab to view the following information: ***Host Name, VM Name, State, Hard Disk Name, Format, Type, Location, Maximum Disk Size (GB), Current File Size (GB), Parent Path***.



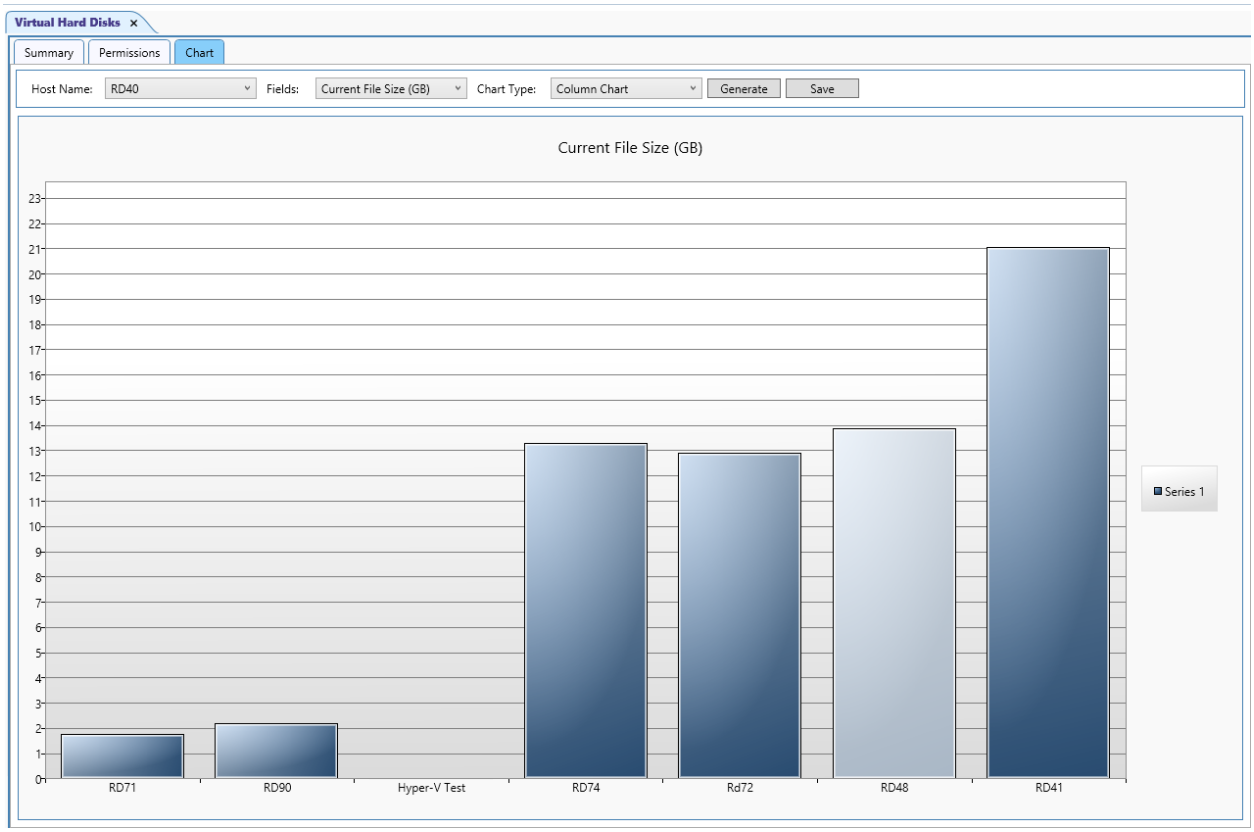
Host Name	VM Name	State	Hard Disk Name	Format	Type	Location	Maximum Disk Size	Current File Size (GB)	Parent Path	Status Recorded as on
RD40	RD71	Running	RD71_9AB73379-F915-4	Vhdx	Differencing	D:\Vm Store\RI	40	1.765625	D:\Vm Store\RD71\RD71\Virtual Hard Dis	11/21/2015 11:57:40 AM
RD40	RD90	Running	RD_D0D8BDC7-E2E3-4F/	Vhdx	Differencing	D:\Vm Store\RI	30	2.1904296875	D:\Vm Store\RD90\RD\Virtual Hard Disks'	11/21/2015 11:57:40 AM
RD40	Hyper-V Test	Turned off	Hyper-V Test.vhdx	Vhdx	DynamicallyExpanding	D:\Vm Store\H	10	0.00390625		11/21/2015 11:57:40 AM
RD40	RD74	Turned off	RD74_99C31F37-F92C-4	Vhdx	Differencing	D:\Vm Store\RI	30	13.298828125	D:\Vm Store\RD74\Virtual Hard Disks\RD	11/21/2015 11:57:41 AM
RD40	Rd72	Running	Rd72_50A4EDD3-F35D-4	Vhdx	Differencing	D:\Vm Store\RI	40	12.8974609375	D:\Vm Store\RD72\Rd72\Virtual Hard Dis	11/21/2015 11:57:41 AM
RD40	RD48	Turned off	RD48.vhdx	Vhdx	DynamicallyExpanding	D:\Vm Store\RI	40	13.87890625		11/21/2015 11:57:41 AM
RD40	RD41	Running	RD41_24037E28-2938-4	Vhdx	Differencing	D:\Vm Store\RI	60	21.037109375	D:\Vm Store\RD41\RD41\Virtual Hard Dis	11/21/2015 11:57:42 AM

Click Permissions tab to view the following information: ***VM Name, State, Hard Disk Name, Location, User Name, Access Type, Permission, Is Inherited, Status Recorded as on***.



Domain Name	Host Name	VM Name	State	Hard Disk Name	Location	User Name	Access Type	Permission	Is Inherited	Status Recorded as on
VOYAGER	RD40	RD71	Running	RD71_9AB73379-F915-4	D:\Vm Store\RD71\RD71\Virtual H	NT VIRTUAL MACHINE\48921	Allow	Write, Read, Synchro	False	11/21/2015 11:59:31 AM
VOYAGER	RD40	RD71	Running	RD71_9AB73379-F915-4	D:\Vm Store\RD71\RD71\Virtual H	NT VIRTUAL MACHINE\48921	Allow	FullControl	True	11/21/2015 11:59:31 AM
VOYAGER	RD40	RD71	Running	RD71_9AB73379-F915-4	D:\Vm Store\RD71\RD71\Virtual H	BUILTIN\Administrators	Allow	FullControl	True	11/21/2015 11:59:31 AM
VOYAGER	RD40	RD71	Running	RD71_9AB73379-F915-4	D:\Vm Store\RD71\RD71\Virtual H	NT AUTHORITY\SYSTEM	Allow	FullControl	True	11/21/2015 11:59:31 AM
VOYAGER	RD40	RD71	Running	RD71_9AB73379-F915-4	D:\Vm Store\RD71\RD71\Virtual H	BUILTIN\Users	Allow	ReadAndExecute, Syr	True	11/21/2015 11:59:31 AM
VOYAGER	RD40	RD90	Running	RD_D0D8BDC7-E2E3-4F.	D:\Vm Store\RD90\RD\Virtual Ha	NT VIRTUAL MACHINE\Virtua	Allow	Read, Synchronize	False	11/21/2015 11:59:31 AM
VOYAGER	RD40	RD90	Running	RD_D0D8BDC7-E2E3-4F.	D:\Vm Store\RD90\RD\Virtual Ha	NT VIRTUAL MACHINE\6C9D(	Allow	FullControl	True	11/21/2015 11:59:31 AM
VOYAGER	RD40	RD90	Running	RD_D0D8BDC7-E2E3-4F.	D:\Vm Store\RD90\RD\Virtual Ha	BUILTIN\Administrators	Allow	FullControl	True	11/21/2015 11:59:31 AM
VOYAGER	RD40	RD90	Running	RD_D0D8BDC7-E2E3-4F.	D:\Vm Store\RD90\RD\Virtual Ha	NT AUTHORITY\SYSTEM	Allow	FullControl	True	11/21/2015 11:59:31 AM
VOYAGER	RD40	RD90	Running	RD_D0D8BDC7-E2E3-4F.	D:\Vm Store\RD90\RD\Virtual Ha	BUILTIN\Users	Allow	ReadAndExecute, Syr	True	11/21/2015 11:59:31 AM
VOYAGER	RD40	Hyper-V Test	Turned off	Hyper-V Test.vhdx	D:\Vm Store\Hyper-V Test\Hyper-	BUILTIN\Administrators	Allow	FullControl	False	11/21/2015 11:59:32 AM
VOYAGER	RD40	Hyper-V Test	Turned off	Hyper-V Test.vhdx	D:\Vm Store\Hyper-V Test\Hyper-	NT VIRTUAL MACHINE\C172A	Allow	Write, Read, Synchro	False	11/21/2015 11:59:32 AM
VOYAGER	RD40	Hyper-V Test	Turned off	Hyper-V Test.vhdx	D:\Vm Store\Hyper-V Test\Hyper-	BUILTIN\Administrators	Allow	FullControl	True	11/21/2015 11:59:32 AM
VOYAGER	RD40	Hyper-V Test	Turned off	Hyper-V Test.vhdx	D:\Vm Store\Hyper-V Test\Hyper-	NT AUTHORITY\SYSTEM	Allow	FullControl	True	11/21/2015 11:59:32 AM
VOYAGER	RD40	Hyper-V Test	Turned off	Hyper-V Test.vhdx	D:\Vm Store\Hyper-V Test\Hyper-	BUILTIN\Users	Allow	ReadAndExecute, Syr	True	11/21/2015 11:59:32 AM
VOYAGER	RD40	RD74	Turned off	RD74_99C31F37-F92C-4	D:\Vm Store\RD74\Virtual Hard D	NT VIRTUAL MACHINE\C7DA	Allow	Write, Read, Synchro	False	11/21/2015 11:59:32 AM
VOYAGER	RD40	RD74	Turned off	RD74_99C31F37-F92C-4	D:\Vm Store\RD74\Virtual Hard D	NT VIRTUAL MACHINE\C7DA	Allow	FullControl	True	11/21/2015 11:59:32 AM
VOYAGER	RD40	RD74	Turned off	RD74_99C31F37-F92C-4	D:\Vm Store\RD74\Virtual Hard D	BUILTIN\Administrators	Allow	FullControl	True	11/21/2015 11:59:32 AM
VOYAGER	RD40	RD74	Turned off	RD74_99C31F37-F92C-4	D:\Vm Store\RD74\Virtual Hard D	NT AUTHORITY\SYSTEM	Allow	FullControl	True	11/21/2015 11:59:32 AM
VOYAGER	RD40	RD74	Turned off	RD74_99C31F37-F92C-4	D:\Vm Store\RD74\Virtual Hard D	BUILTIN\Users	Allow	ReadAndExecute, Syr	True	11/21/2015 11:59:33 AM
VOYAGER	RD40	Rd72	Running	Rd72_50A4EDD3-F35D-~	D:\Vm Store\RD72\Rd72\Virtual H	NT VIRTUAL MACHINE\Virtua	Allow	Read, Synchronize	False	11/21/2015 11:59:33 AM
VOYAGER	RD40	Rd72	Running	Rd72_50A4EDD3-F35D-~	D:\Vm Store\RD72\Rd72\Virtual H	NT VIRTUAL MACHINE\E6A2E	Allow	Write, Read, Synchro	False	11/21/2015 11:59:33 AM
VOYAGER	RD40	Rd72	Running	Rd72_50A4EDD3-F35D-~	D:\Vm Store\RD72\Rd72\Virtual H	NT VIRTUAL MACHINE\E6A2E	Allow	FullControl	True	11/21/2015 11:59:33 AM
VOYAGER	RD40	Rd72	Running	Rd72_50A4EDD3-F35D-~	D:\Vm Store\RD72\Rd72\Virtual H	BUILTIN\Administrators	Allow	FullControl	True	11/21/2015 11:59:33 AM
VOYAGER	RD40	Rd72	Running	Rd72_50A4EDD3-F35D-~	D:\Vm Store\RD72\Rd72\Virtual H	NT AUTHORITY\SYSTEM	Allow	FullControl	True	11/21/2015 11:59:33 AM
VOYAGER	RD40	Rd72	Running	Rd72_50A4EDD3-F35D-~	D:\Vm Store\RD72\Rd72\Virtual H	BUILTIN\Users	Allow	ReadAndExecute, Syr	True	11/21/2015 11:59:33 AM
VOYAGER	RD40	RD48	Turned off	RD48.vhdx	D:\Vm Store\RD48\RD48\Virtual H	NT VIRTUAL MACHINE\F0525	Allow	Write, Read, Synchro	False	11/21/2015 11:59:33 AM
VOYAGER	RD40	RD48	Turned off	RD48.vhdx	D:\Vm Store\RD48\RD48\Virtual H	BUILTIN\Administrators	Allow	FullControl	True	11/21/2015 11:59:33 AM
VOYAGER	RD40	RD48	Turned off	RD48.vhdx	D:\Vm Store\RD48\RD48\Virtual H	NT AUTHORITY\SYSTEM	Allow	FullControl	True	11/21/2015 11:59:33 AM

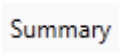
Click Chart tab to view the following information:


Virtual Hard Disks
Summary
Permissions
Chart
Host Name:
RD40
Fields:
Current File Size (GB)
Chart Type:
Column Chart
Generate
Save
Current File Size (GB)
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
RD71
RD90
Hyper-V Test
RD74
Rd72
RD48
RD41
Series 1

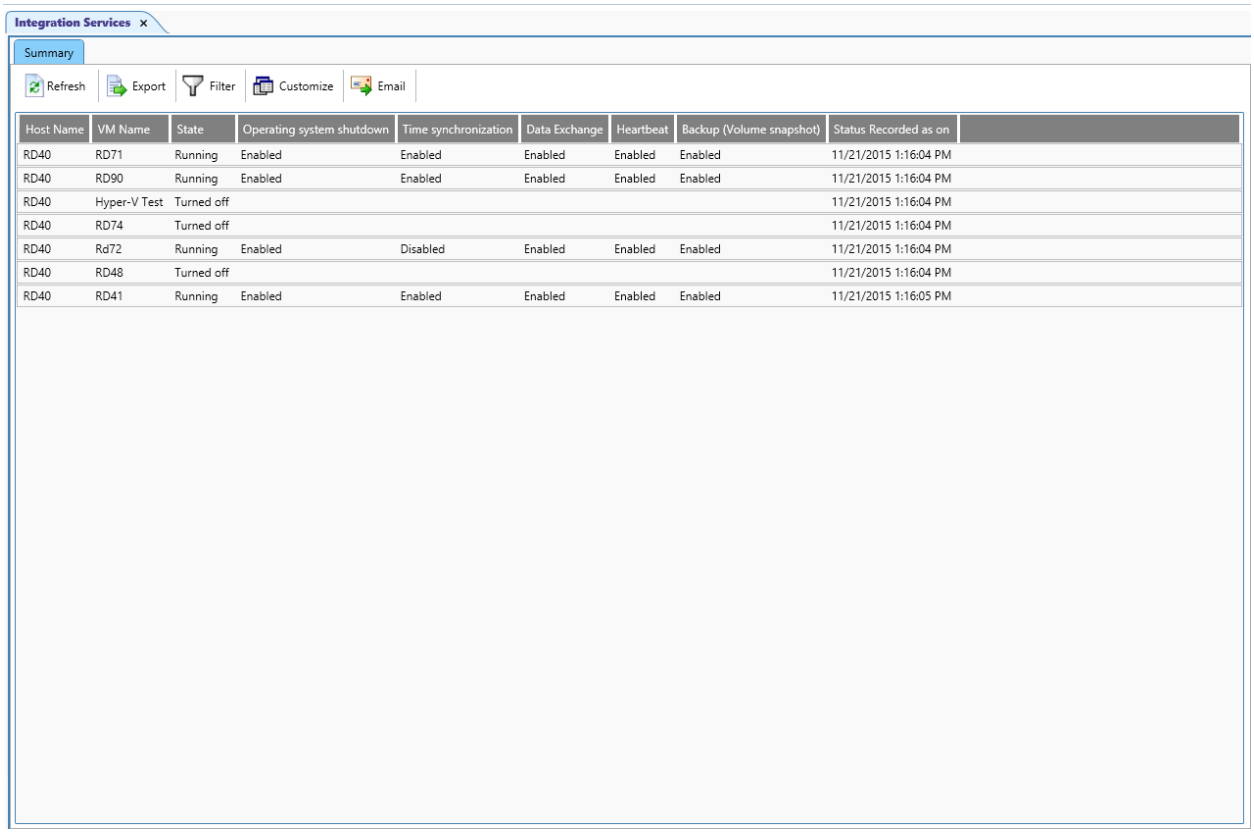
How to view Integration Services Reports?

Click on

under VM Reports to view Integration Services information available under each tab as listed below.

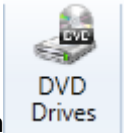
Click 

tab to view the following information: ***Host Name, VM Name, State, Operating system shutdown, Time synchronization, Data Exchange, Heartbeat, Backup (Volume snapshot), Status Recorded as on***.



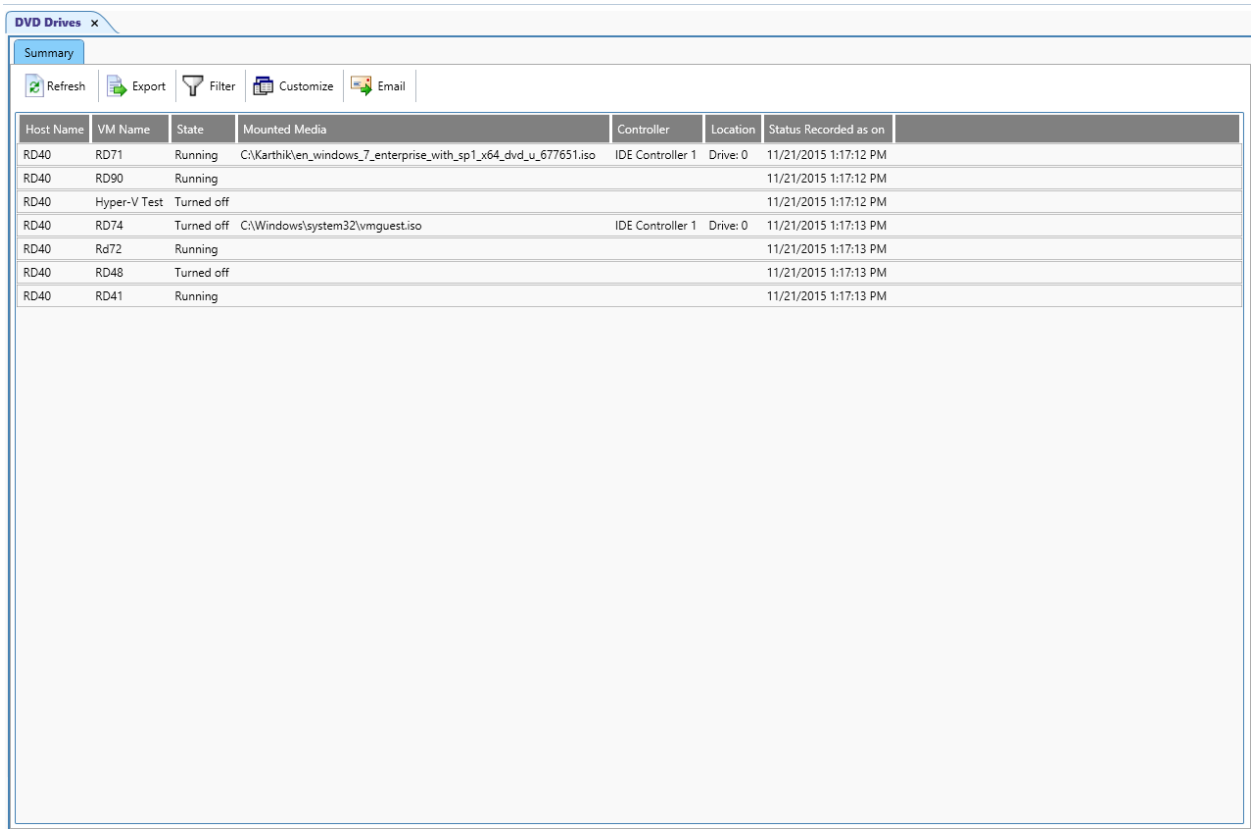
Host Name	VM Name	State	Operating system shutdown	Time synchronization	Data Exchange	Heartbeat	Backup (Volume snapshot)	Status Recorded as on
RD40	RD71	Running	Enabled	Enabled	Enabled	Enabled	Enabled	11/21/2015 1:16:04 PM
RD40	RD90	Running	Enabled	Enabled	Enabled	Enabled	Enabled	11/21/2015 1:16:04 PM
RD40	Hyper-V Test	Turned off						11/21/2015 1:16:04 PM
RD40	RD74	Turned off						11/21/2015 1:16:04 PM
RD40	Rd72	Running	Enabled	Disabled	Enabled	Enabled	Enabled	11/21/2015 1:16:04 PM
RD40	RD48	Turned off						11/21/2015 1:16:04 PM
RD40	RD41	Running	Enabled	Enabled	Enabled	Enabled	Enabled	11/21/2015 1:16:05 PM

How to view DVD Drives Reports?

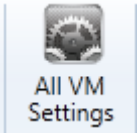
Click on 

under VM Reports to view DVD Drives information available under each tab as listed below.

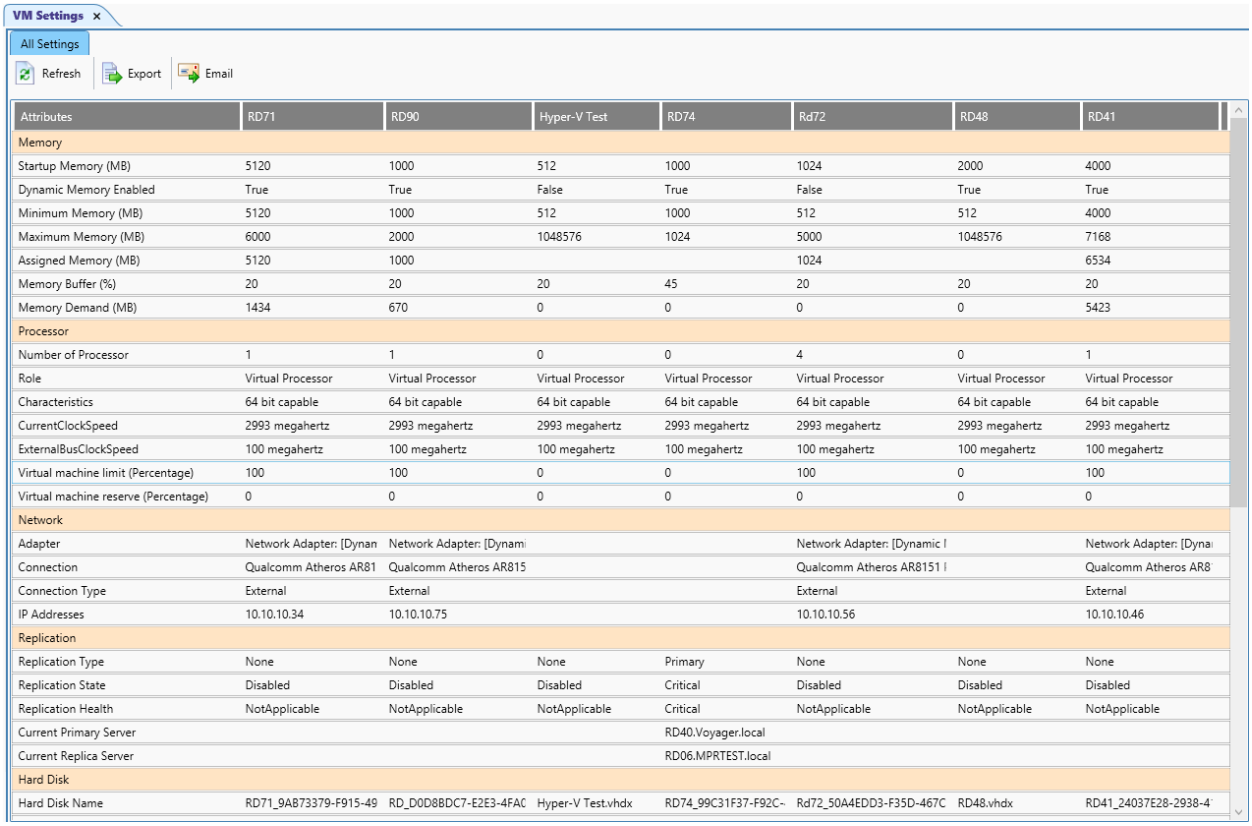
Click Summary tab to view the following information: Host Name, VM Name, State, Mounted Media, Controller, Location, Status Recorded as on.



How to view All VM Settings Reports?

Click on 

under VM Reports to view All VM Settings available under each tab as listed below.



VM Settings ×

All Settings

Refresh | Export | Email

Attributes	RD71	RD90	Hyper-V Test	RD74	Rd72	RD48	RD41
Memory							
Startup Memory (MB)	5120	1000	512	1000	1024	2000	4000
Dynamic Memory Enabled	True	True	False	True	False	True	True
Minimum Memory (MB)	5120	1000	512	1000	512	512	4000
Maximum Memory (MB)	6000	2000	1048576	1024	5000	1048576	7168
Assigned Memory (MB)	5120	1000			1024		6534
Memory Buffer (%)	20	20	20	45	20	20	20
Memory Demand (MB)	1434	670	0	0	0	0	5423
Processor							
Number of Processor	1	1	0	0	4	0	1
Role	Virtual Processor	Virtual Processor	Virtual Processor	Virtual Processor	Virtual Processor	Virtual Processor	Virtual Processor
Characteristics	64 bit capable	64 bit capable	64 bit capable	64 bit capable	64 bit capable	64 bit capable	64 bit capable
CurrentClockSpeed	2993 megahertz	2993 megahertz	2993 megahertz	2993 megahertz	2993 megahertz	2993 megahertz	2993 megahertz
ExternalBusClockSpeed	100 megahertz	100 megahertz	100 megahertz	100 megahertz	100 megahertz	100 megahertz	100 megahertz
Virtual machine limit (Percentage)	100	100	0	0	100	0	100
Virtual machine reserve (Percentage)	0	0	0	0	0	0	0
Network							
Adapter	Network Adapter: [Dynan	Network Adapter: [Dynami			Network Adapter: [Dynamic I		Network Adapter: [Dynai
Connection	Qualcomm Atheros AR81	Qualcomm Atheros AR815			Qualcomm Atheros AR8151 I		Qualcomm Atheros AR8
Connection Type	External	External			External		External
IP Addresses	10.10.10.34	10.10.10.75			10.10.10.56		10.10.10.46
Replication							
Replication Type	None	None	None	Primary	None	None	None
Replication State	Disabled	Disabled	Disabled	Critical	Disabled	Disabled	Disabled
Replication Health	NotApplicable	NotApplicable	NotApplicable	Critical	NotApplicable	NotApplicable	NotApplicable
Current Primary Server				RD40.Voyager.local			
Current Replica Server				RD06.MPRTEST.local			
Hard Disk							
Hard Disk Name	RD71_9AB73379-F915-49	RD_D0D8BDC7-E2E3-4FAC	Hyper-V Test.vhdx	RD74_99C31F37-F92C-	Rd72_50A4EDD3-F35D-467C	RD48.vhdx	RD41_24037E28-2938-4

Schedule

About Schedule Reports

Task Manager

How to Schedule Reports?

About Schedule Reports

Vyapin Virtualization Management Suite provides a powerful offline report generation feature called Schedule Report. Schedule Report allows the user to select multiple reports to be run for several hosts and VMs across the enterprise at scheduled intervals. The Schedule Report feature has the ability to export and/or e-mail the reports in different file formats.

Please note the following while using the Schedule Report Wizard:

a) Scheduled reports will be created as a "task" in Windows Task Scheduler.
b) The scheduled job will generate and export/email the reports in different file formats (HTML, CSV and XLSX) to the desired folder path/printer.
c) By default, for each task, a sub-folder with the task name will be created under the specified export path. All selected Reports will be exported to a time-stamped sub-folder, in the format "yyyy-mm-dd hh.mm.ss", under the task name folder. Therefore, the full folder path for all the exported reports refers to the following directory: *<Export path><Task name><Time stamp>.*
d) A separate file will be created for each report in the desired file format. For example, in the HTML file format, each report will be created as a .html file.

Note: Schedule Report Wizard will help you create and store the settings for a task, which you may view or modify later using the Scheduled Tasks Manager. The task will be created with the settings (Schedule Type and Run As parameter) provided using the Schedule Report Wizard. A valid password must be specified for the Run As parameter of the task.

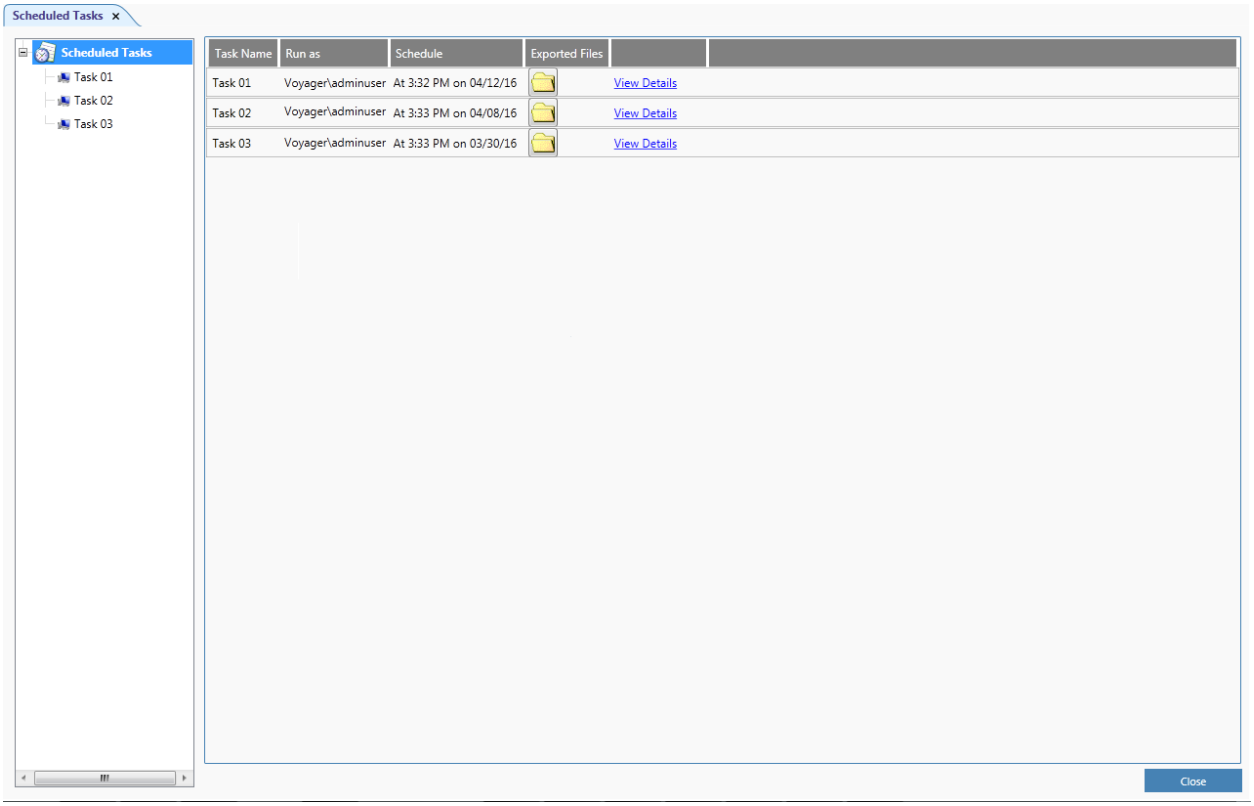
Schedule Task Manager

The Scheduled Tasks Manager allows you to perform the following operations:

- View summary information for the tasks created
- View exported files of the task
- Edit an existing task
- Delete a task

View summary information of a task

The pane on the left hand side in the Scheduled Tasks Manager window lists the tasks maintained in Vyapin Virtualization Management Suite. To view summary information of a task, select the desired task on the left pane. The summary information of the selected task will be displayed in the right pane as shown below:



The task summary includes information about the task information, reports selected, export/e-mail settings.

View exported files

To view the reports generated and exported by the task, perform either one of the following steps:

- Select **Scheduled Tasks** node on the left pane, and then click on the hyperlink in the **Exported Files** column in the right pane for the desired task.

View Details

To view the details of the reports generated and exported folder path by the task, perform either one of the following steps:

- Select **Scheduled Tasks** node on the left pane, and then click on the **View Details** hyperlink in the right pane for the desired task.

OR

- Select the desired task on the left pane, and then click on the hyperlink next to Exported Files.

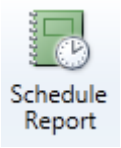
Edit Task

1. Select a task from the Scheduled Tasks Manager Window and Click Edit Task.
2. Perform the steps as in How to Schedule reports? While proceeding through the wizard, you may change the settings, add a new report, delete a report, edit a report, change the export path etc.
3. The new settings will be used when the task runs the next time.

Delete Task

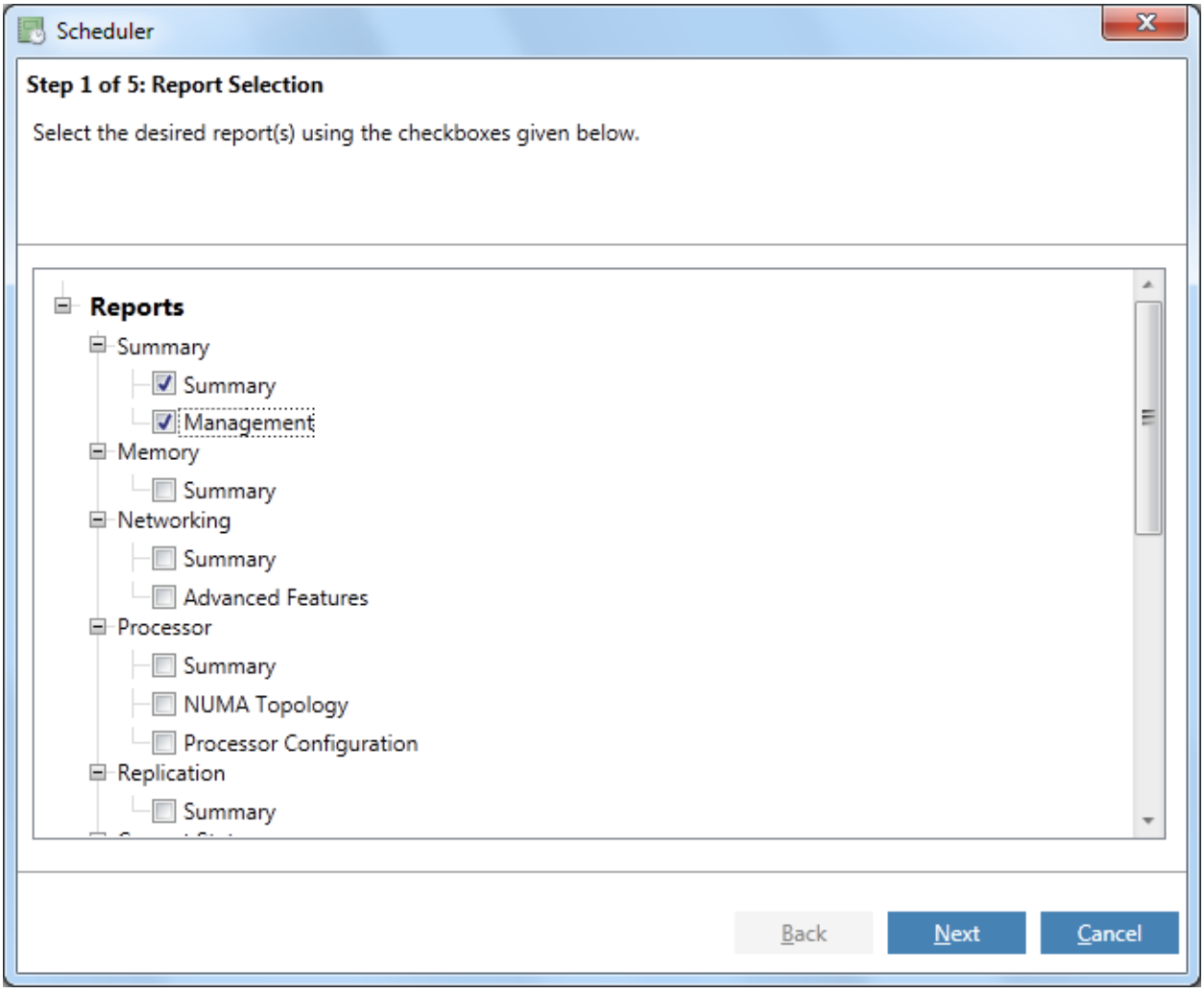
To delete a task from the Scheduled Tasks Window, select the task and click Delete Task. The deleted task will be removed permanently from the Windows Task Scheduler.

How to Schedule Reports?

Select 

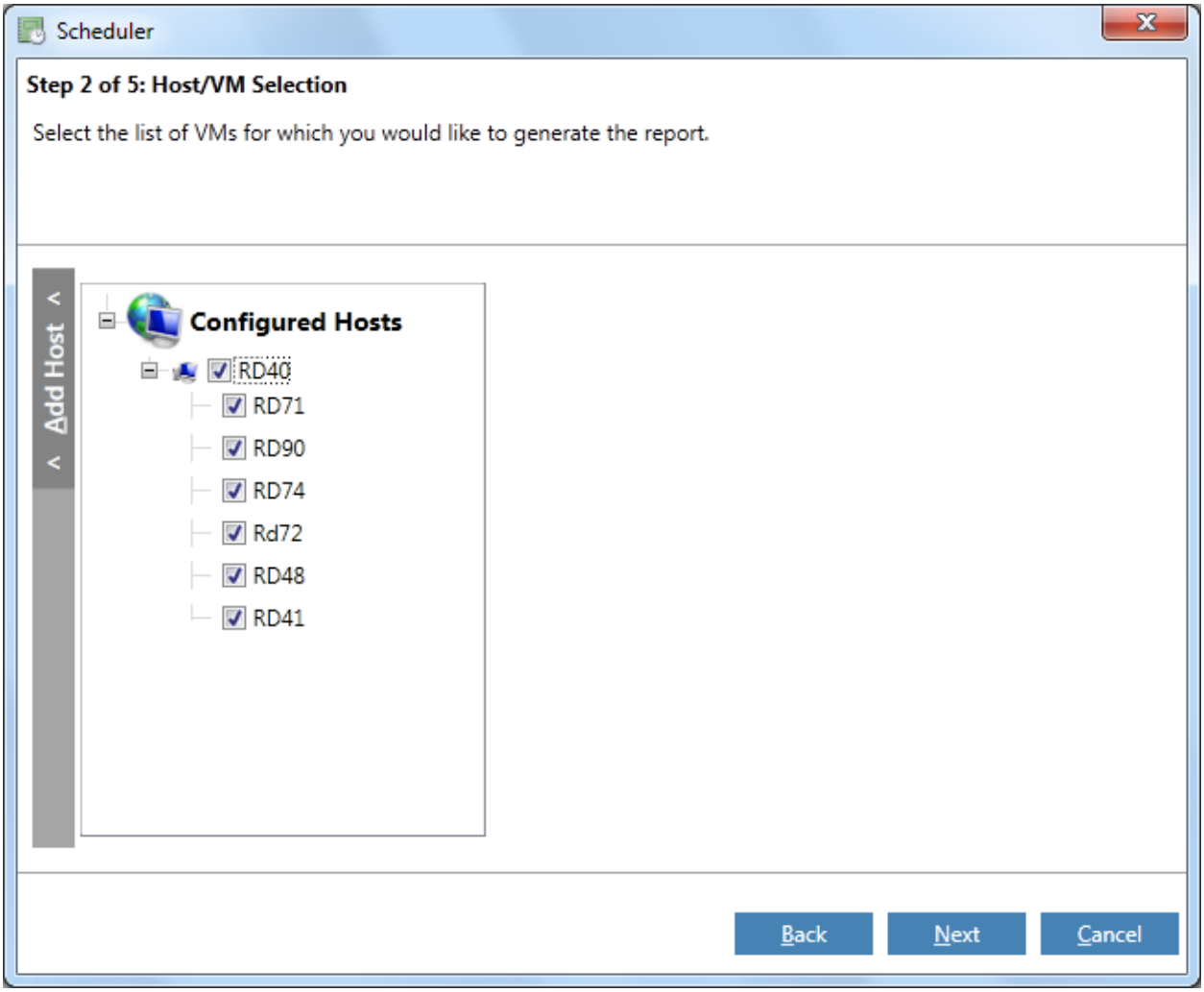
option under Reports. This will bring up the Schedule Report Wizard.

Step 1: Report Selection



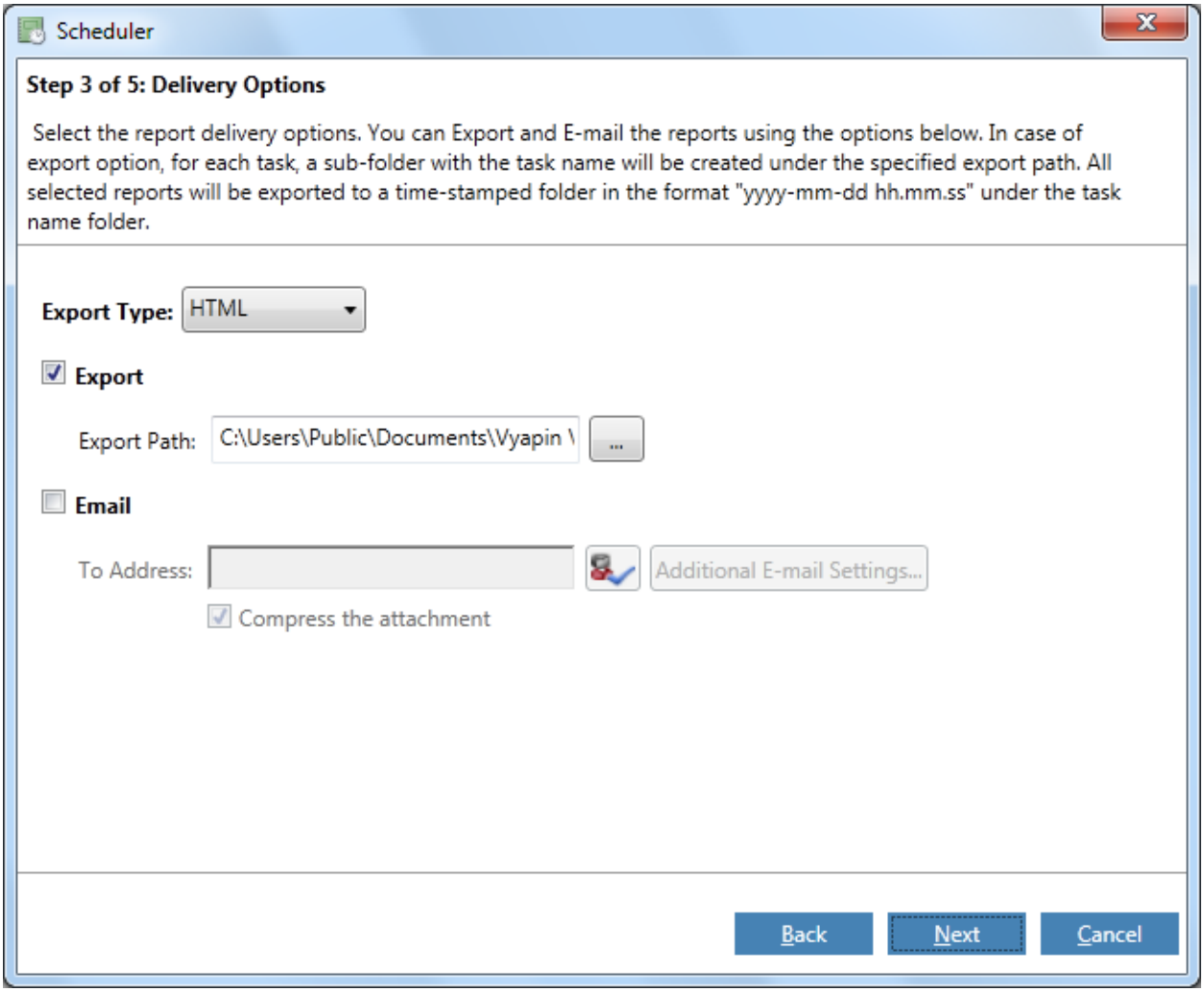
1. **Select** the report(s) using the checkboxes to the left of the reports. You may select any number of reports to run in a single task.
2. Click **Next** to proceed to the next step.

Step 2: Host/VM Selection



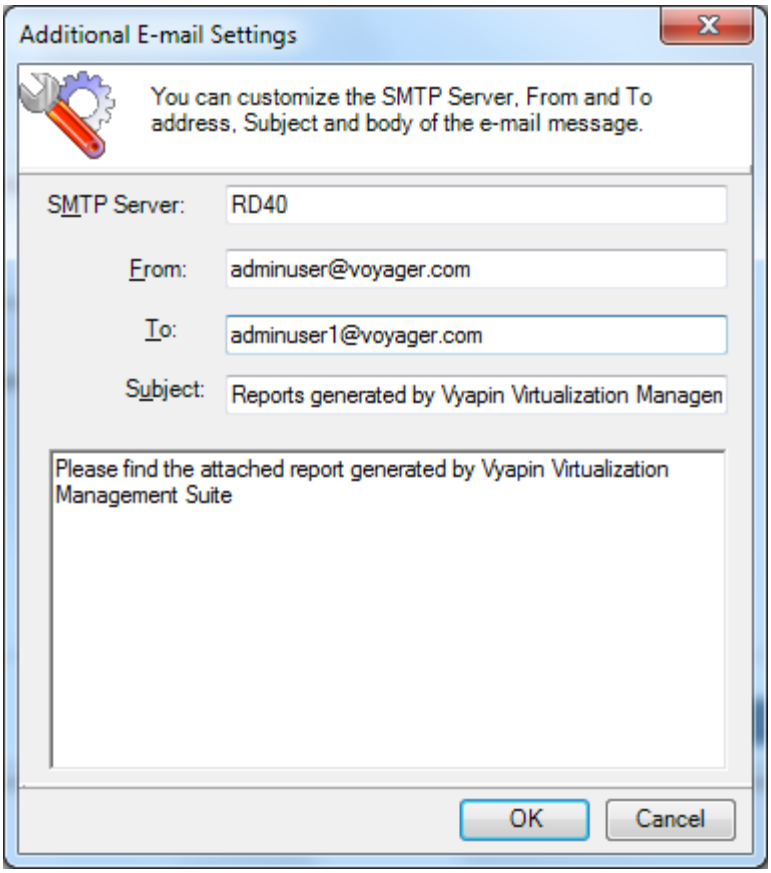
1. Select the Hosts and VMs for which you wish to run the reports selected in Step 1.
2. Click Next to proceed to the Next step.

Step 3: Delivery Options

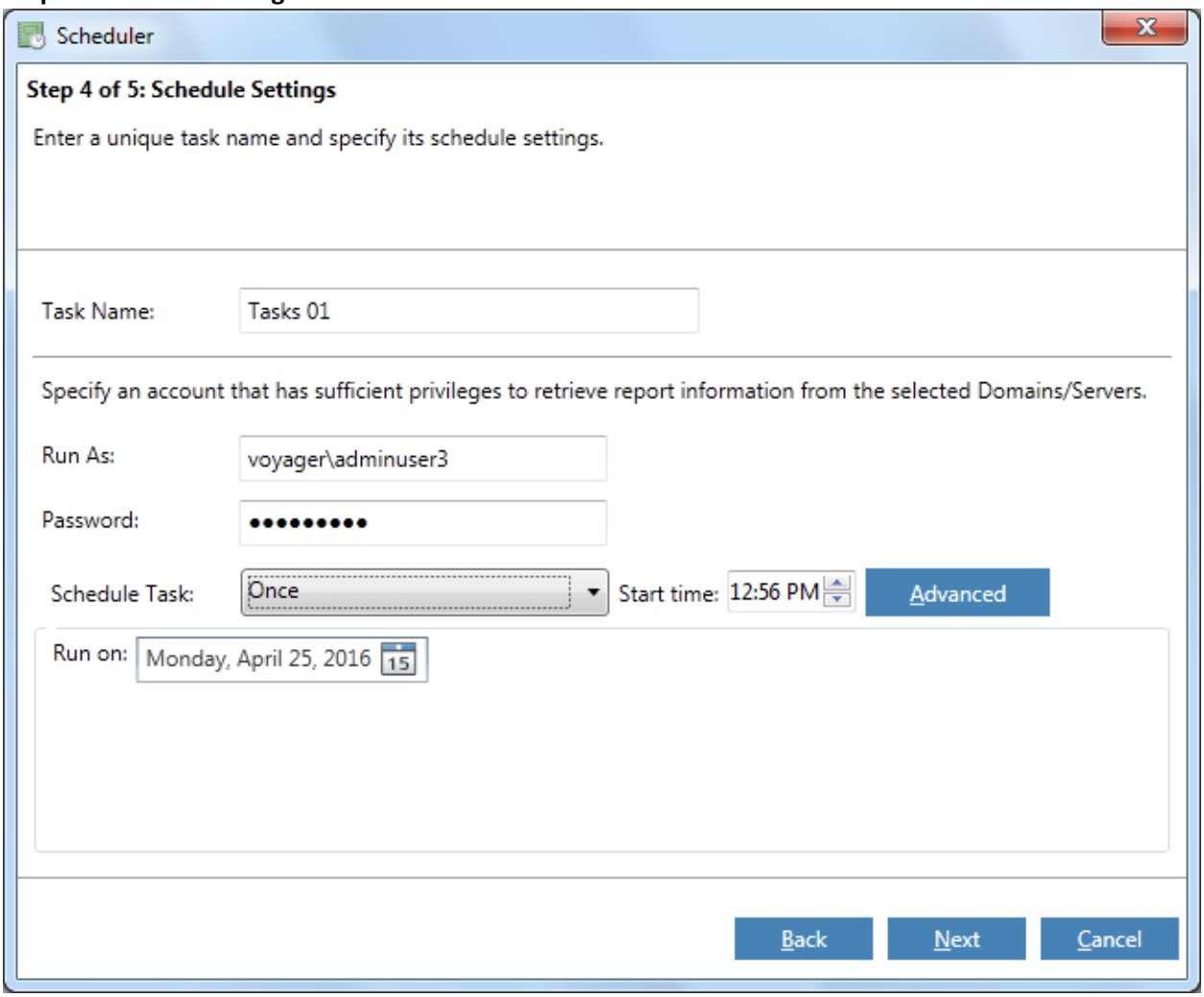


1. Change the Export or E-mail settings as necessary.
2. Use Browse button to change the export path.

- Click **Additional E-mail Settings** button to specify optional e-mail settings as shown below.

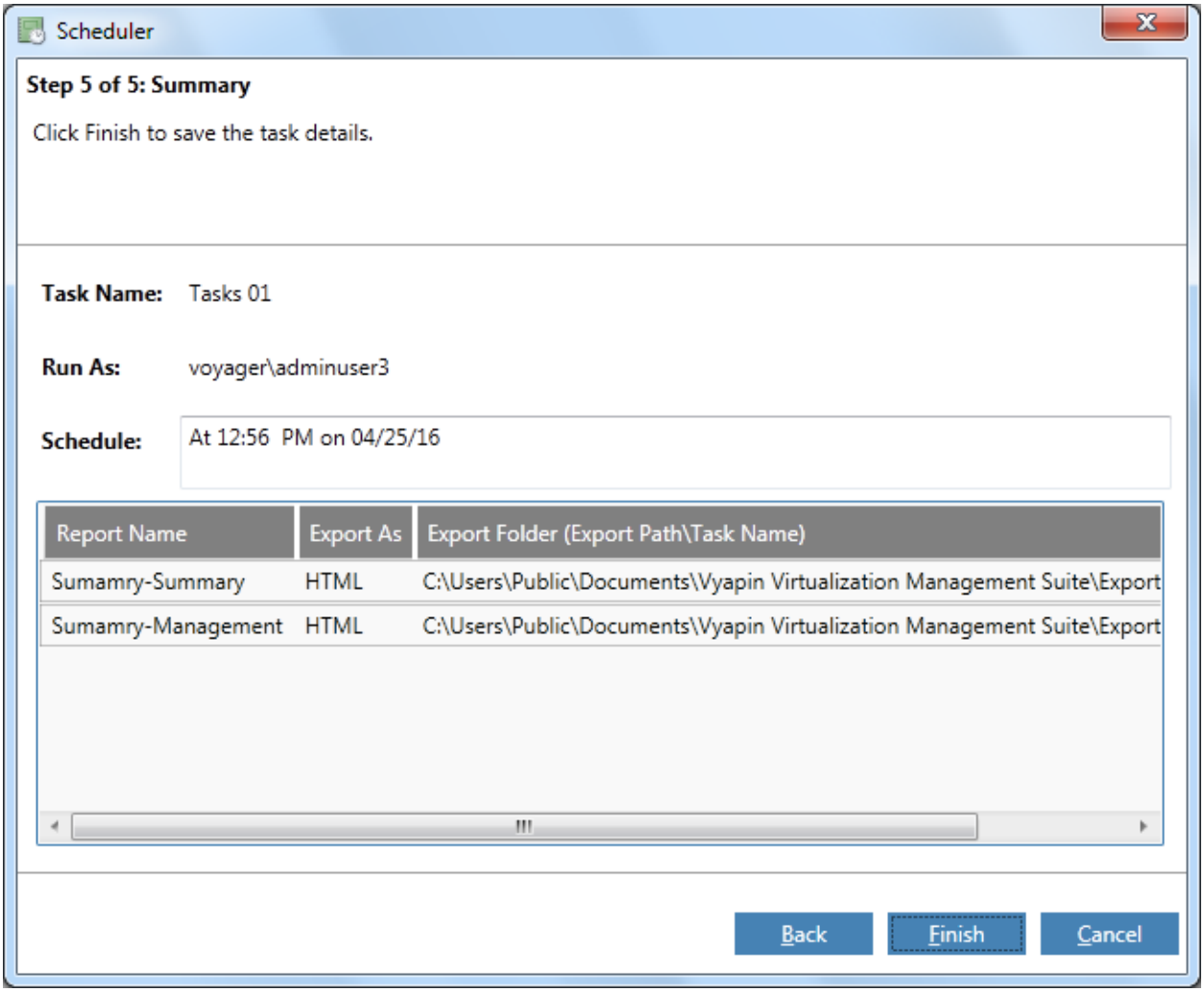

Additional E-mail Settings
You can customize the SMTP Server, From and To address, Subject and body of the e-mail message.
SMTP Server:
RD40
From:
adminuser@voyager.com
To:
adminuser1@voyager.com
Subject:
Reports generated by Vyapin Virtualization Managen
Please find the attached report generated by Vyapin Virtualization Management Suite
OK
Cancel

Step 4: Schedule Settings

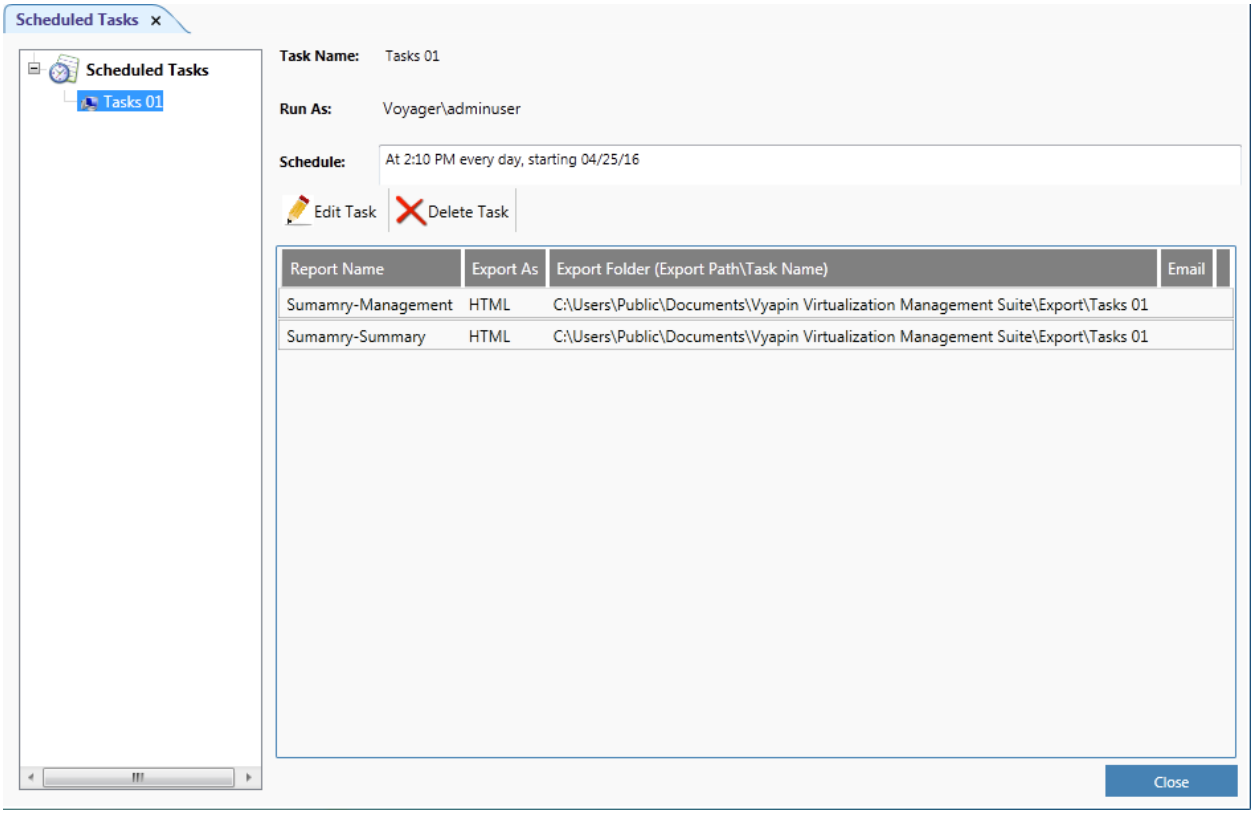


1. Enter a unique name for the task.
2. Change the Run as parameter, if necessary and set the password for the specified user.
3. Change the task schedule settings as required.
4. Click Next to proceed to the next and final step.

Step 5: Summary



1. This step displays the summary information of the task.
2. Click Finish to save the task details.
3. The task will be added to Windows Scheduled Tasks and will be displayed in the Scheduled Tasks Manager Window as shown below:


Scheduled Tasks
Scheduled Tasks
Tasks 01
Task Name: Tasks 01
Run As: Voyager\adminuser
Schedule: At 2:10 PM every day, starting 04/25/16
Edit Task
Delete Task
Report Name
Export As
Export Folder (Export Path\Task Name)
Email
Sumamry-Management HTML C:\Users\Public\Documents\Vyapin Virtualization Management Suite\Export\Tasks 01
Sumamry-Summary HTML C:\Users\Public\Documents\Vyapin Virtualization Management Suite\Export\Tasks 01
Close

VM Performance Analyzer

Data Collector

Live Performance Data

Performance Reports

Data Collector

[About Data Collector]

[How to configure a host and VM for data collection?]

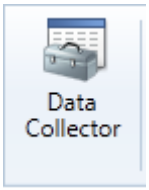
About Data Collector

The **Data Collector** feature provides the option to configure hosts and virtual machines for collecting their performance counter data at regular interval of time. Based on the setting, it collects the performance counter data to report any changes made to the host/virtual machine. Data Collector feature allows you to create a schedule task for a host and its virtual machines in a single task.

For more information about data collector, follow the links given below:

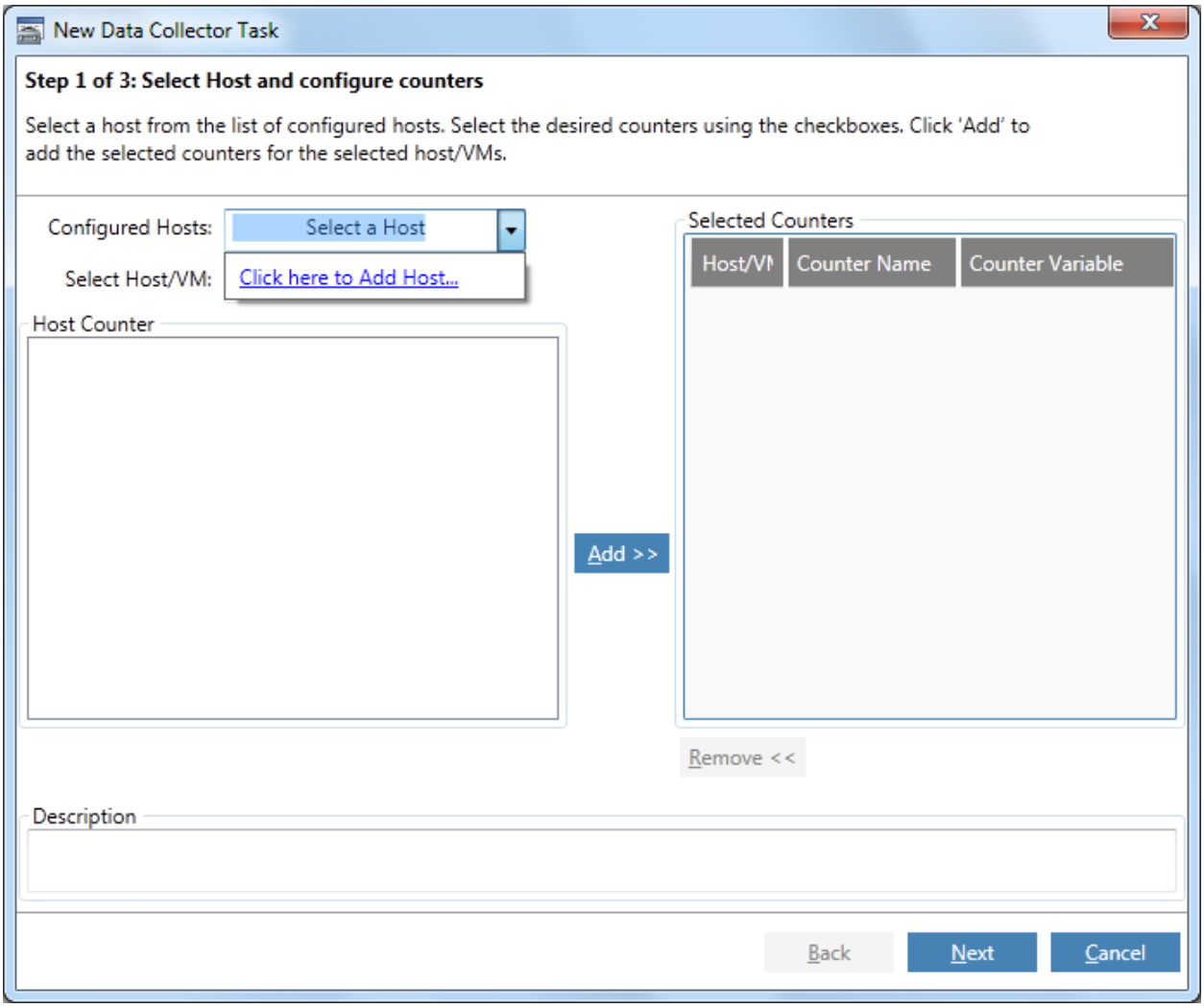
How to configure a host and VM for data collection?

How to configure a host and VM for data collection?



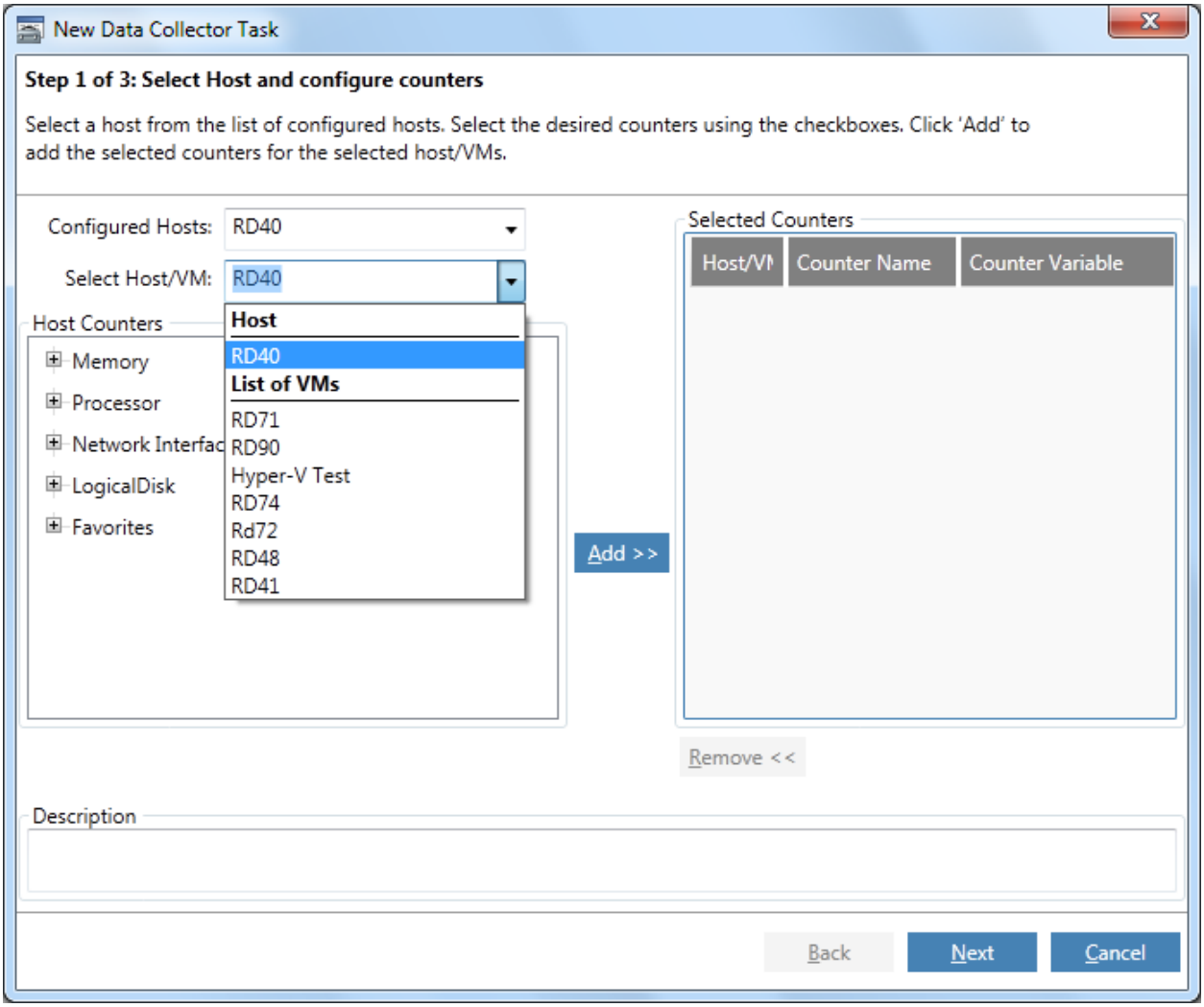
Click under VM Performance Analyzer module. This will bring up the New Data Collector Task Wizard as displayed below:

Step 1: Select Host and configure counters

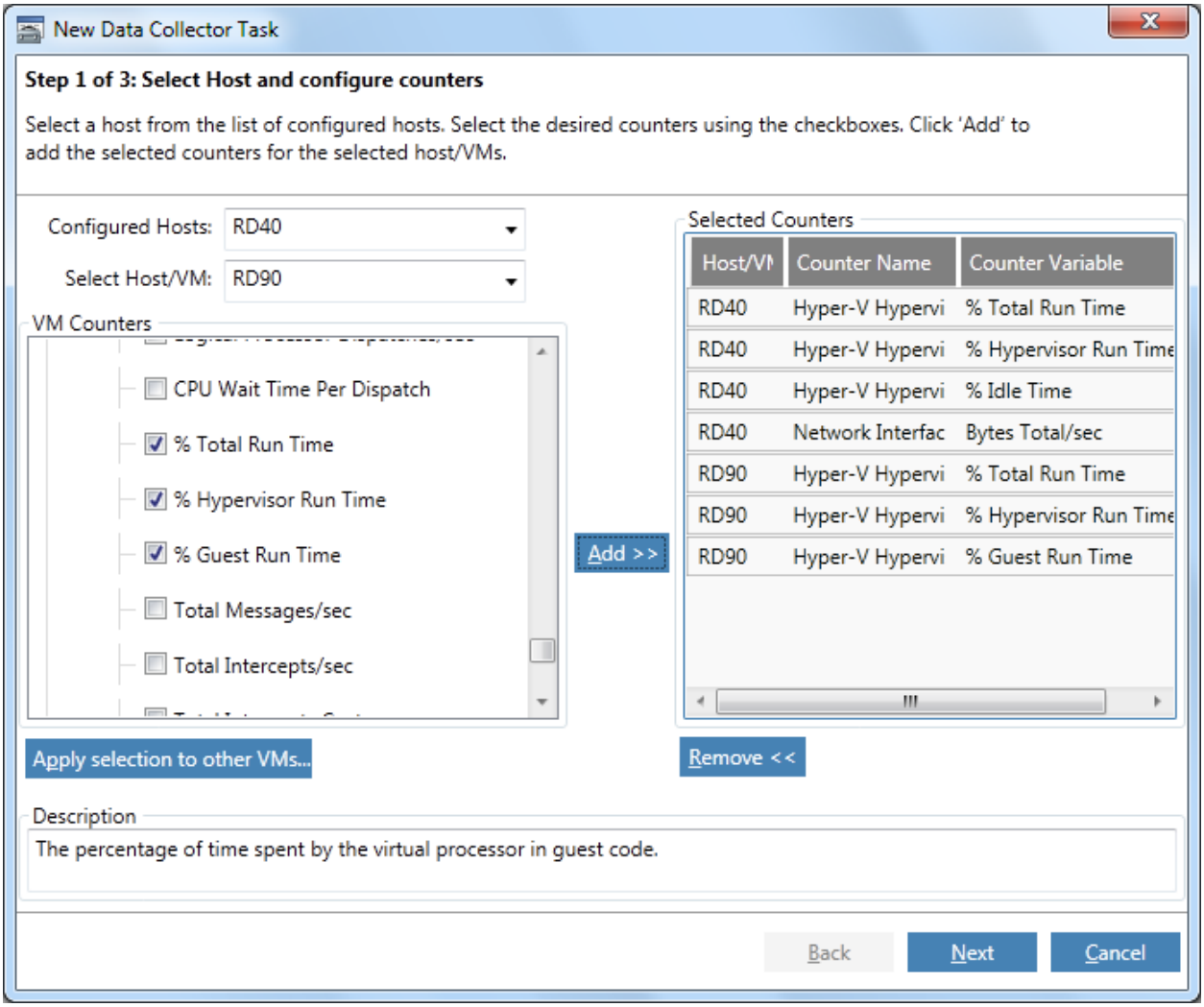


To configure a host for analysis, click Click here to Add Host... menu.

Select a host from the list of **Configured Hosts** drop-down. The list of VMs in the selected host will be displayed in the **Select Host/VM** drop-down, as shown below**:**

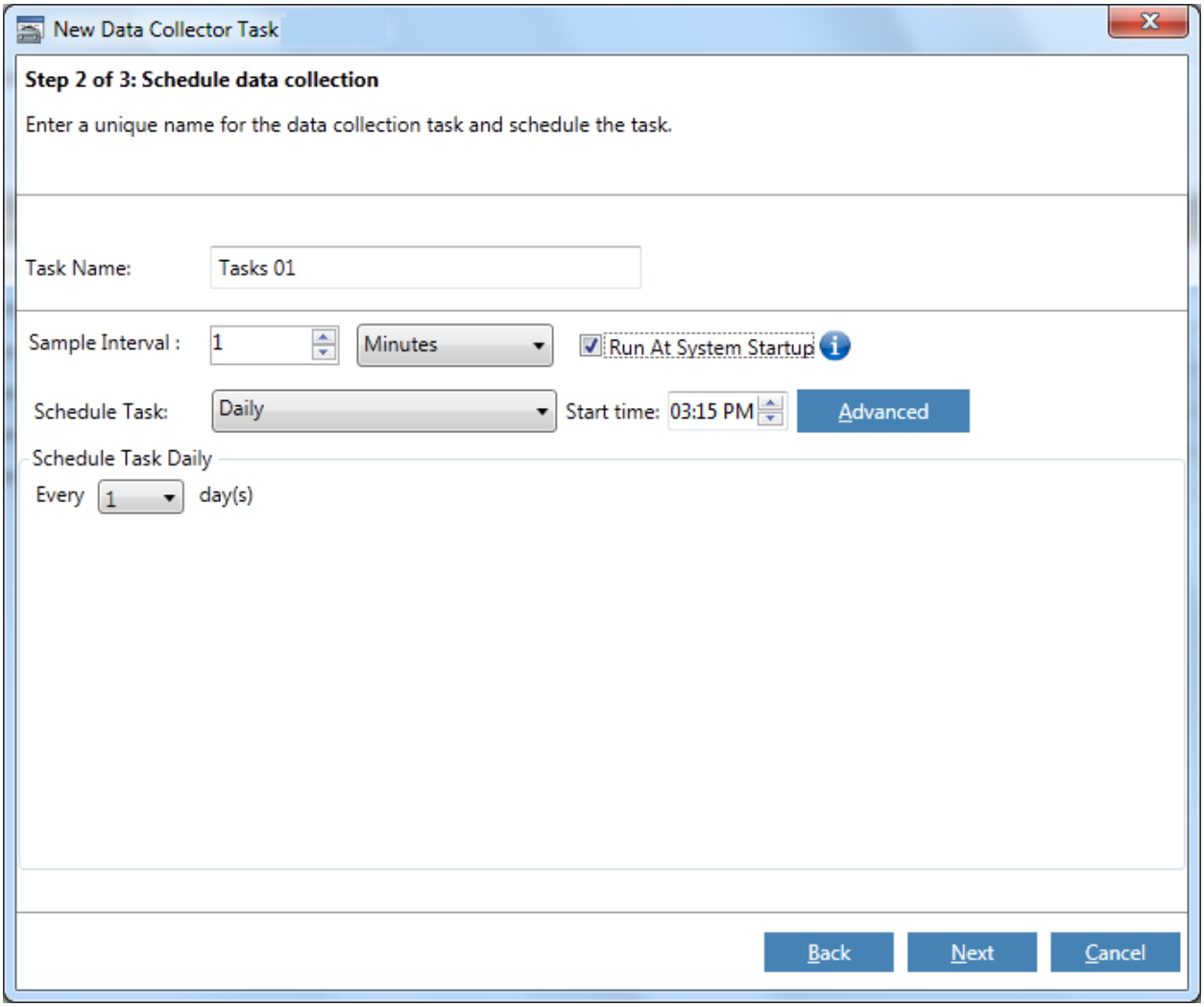


1. Select a host/VM. This will display the Performance counters for the selected host/VM in the tree view.
2. Select the desired counters using the checkboxes.
3. Click Add >> to add the selected counters for the selected host/VMs.



4. You may also use Apply selection to other VMs... option to apply the selected counters to the desired VMs.
5. Use Remove << button to remove the selected counters.

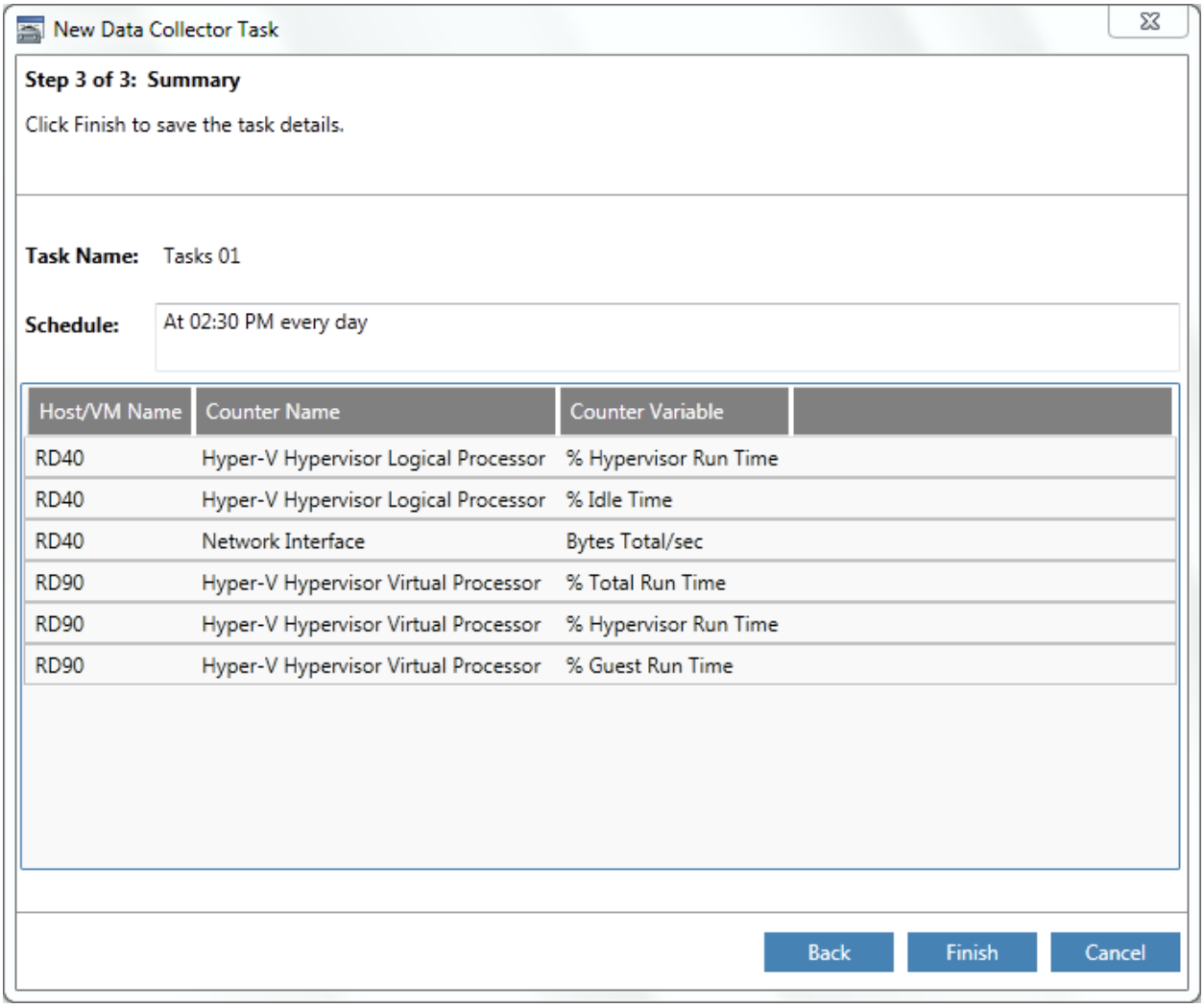
Click **Next** to proceed.



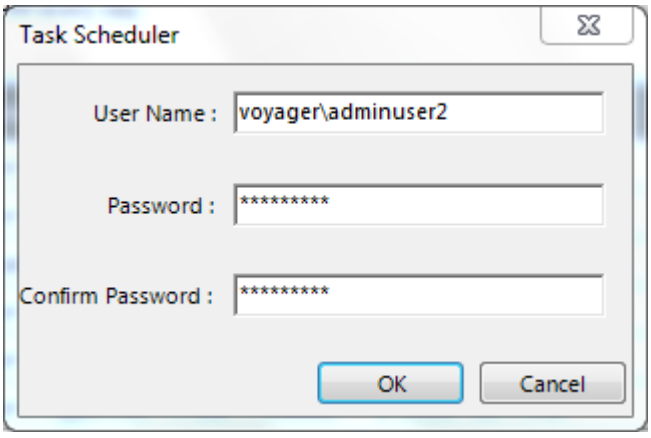
1. Enter a unique name for the data collection task and schedule it.
2. Change the data collection task schedule settings as required.
3. Select a Sample Interval time at which the selected counters have to be collected.
4. Use **Run At System Startup** option as required. To set this option in the scheduled task, the currently logged on user to have administrative privileges. If User Access Control (UAC) is enabled and if the currently logged on user does not have administrative privileges, UAC prompt will appear to elevate the user's privileges.
5. Click **Next** to proceed to the final step.

Step 3: Summary

1. This step displays the summary information of the task.

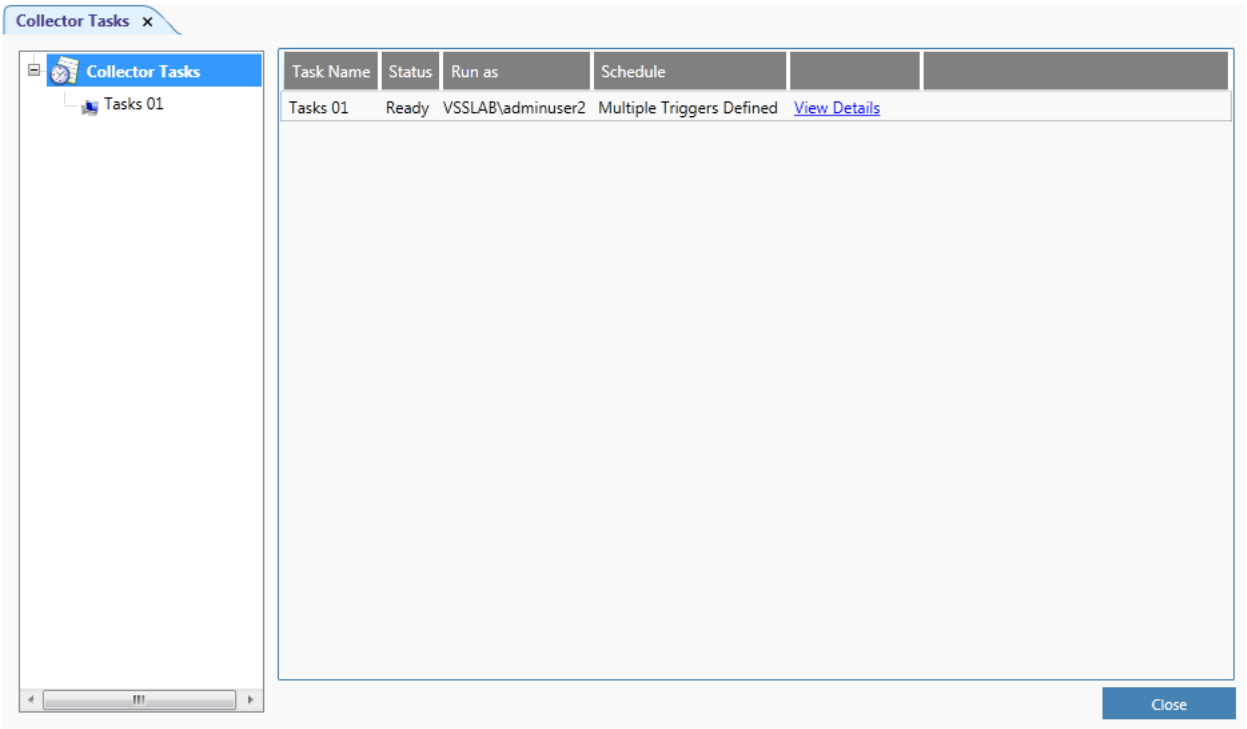


2. Click **Finish** to save the task details. User credential dialog will appear, as shown below:



Specify Run As account and password, click **OK** to create a Data Collector Task.

3. The task will be added to Windows Scheduled Tasks and will be displayed in the Collector Tasks window as shown below:

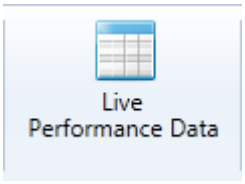


Live Performance Data

[How to view the occurrence of configured performance counters in Data Collector**?**]

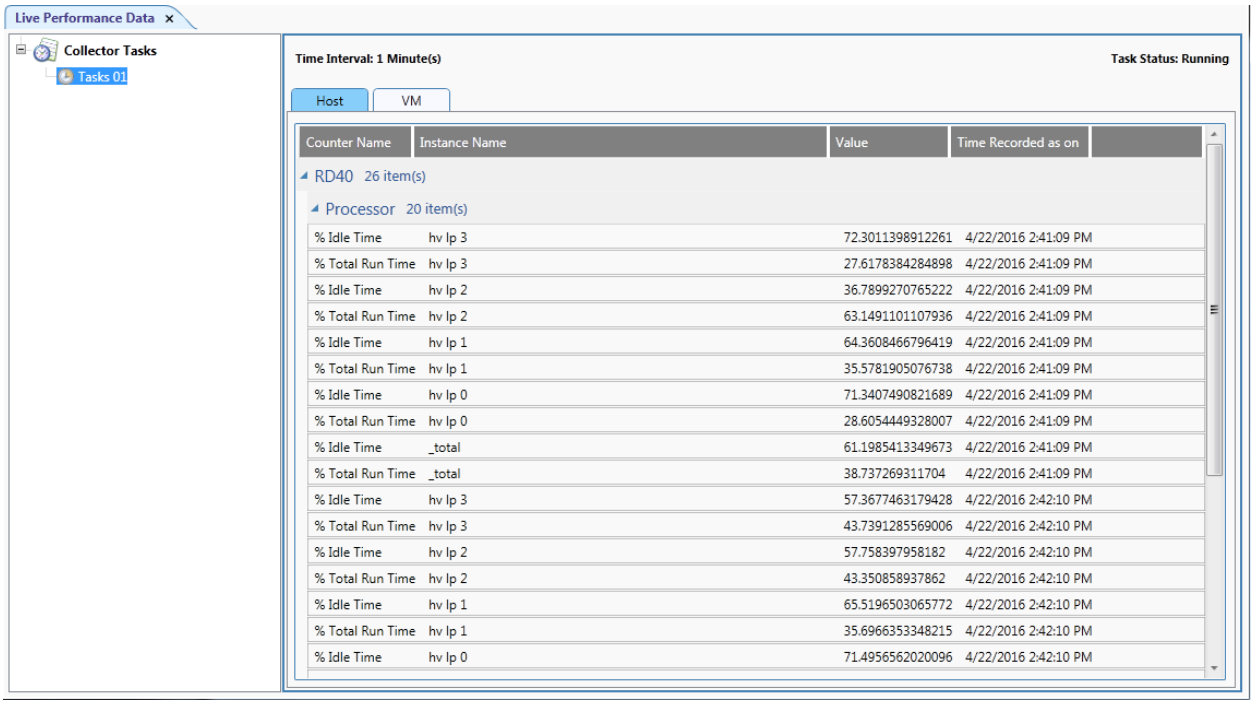
How to view the occurrence of configured performance counters in Data Collector?

Live Performance Data feature allows you to view the occurrence of all performance counters for the host or virtual machines configured in the Data Collector Task in the application. This feature will display you the collected performance counters at the time intervals specified in the data collector task.

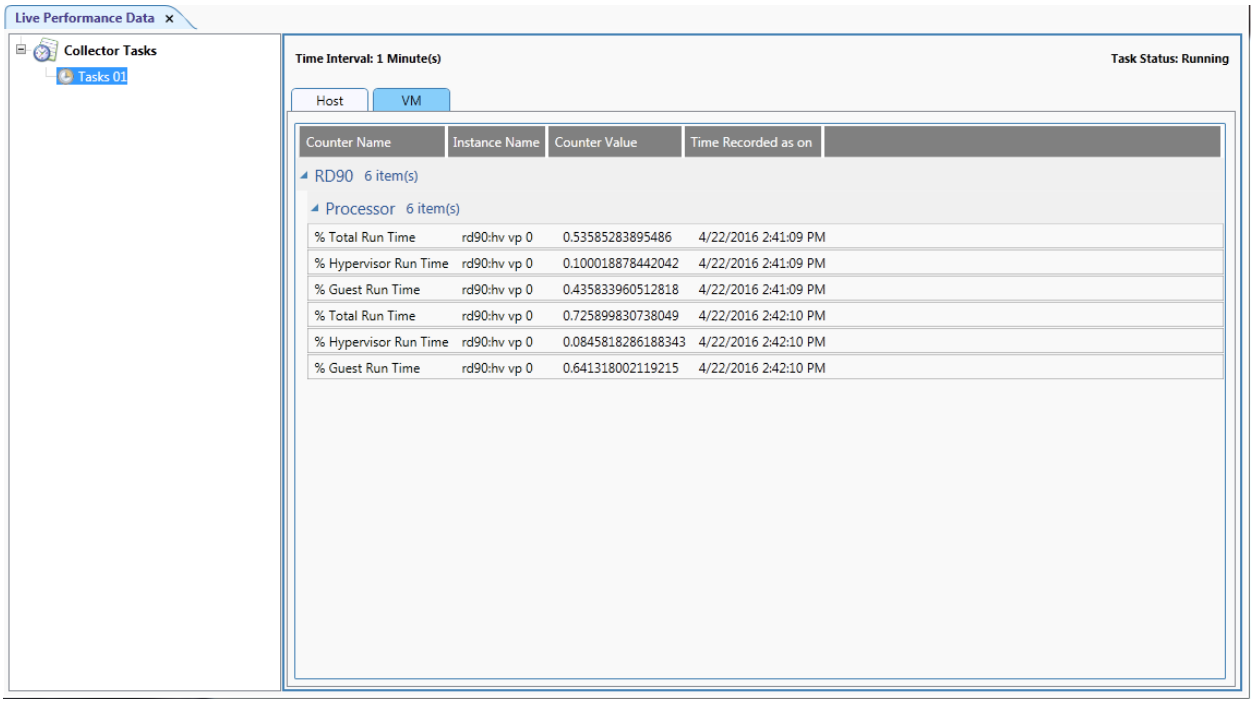
Click 

under Performance Analyzer module. This will launch the Live Performance Data window as shown below.

In the left pane, it will show the list of tasks configured in the **Data Collector** feature. Select a task and view the occurrence of the performance counters for a host and virtual machines at different times.



You can also view the performance of Virtual Machines as shown below:


Live Performance Data
Collector Tasks
Tasks 01
Time Interval: 1 Minute(s)
Task Status: Running
Host
VM
Counter Name
Instance Name
Counter Value
Time Recorded as on
RD90 6 item(s)
Processor 6 item(s)
% Total Run Time rd90:hv vp 0 0.53585283895486 4/22/2016 2:41:09 PM
% Hypervisor Run Time rd90:hv vp 0 0.100018878442042 4/22/2016 2:41:09 PM
% Guest Run Time rd90:hv vp 0 0.435833960512818 4/22/2016 2:41:09 PM
% Total Run Time rd90:hv vp 0 0.725899830738049 4/22/2016 2:42:10 PM
% Hypervisor Run Time rd90:hv vp 0 0.0845818286188343 4/22/2016 2:42:10 PM
% Guest Run Time rd90:hv vp 0 0.641318002119215 4/22/2016 2:42:10 PM

Performance Report

About Performance Report

How to generate Host Performance Summary reports?

How to generate VM Performance Summary reports?

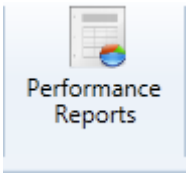
About Performance Reports

The Performance Reports in VM Performance Analyzer module is a powerful feature that shows reports of host and virtual machine performance counters that are configured in the Data Collector feature. This feature also displays the summarized reports of performance counters such as "By Every 15 minutes of the day", "By Every Half hour of the day", "By Day" etc.,. It may be useful to analyze the workload by aggregating data from pre-defined time intervals such as Daily, Weekly and Monthly as subsets of data.

See also

- How to generate Host Performance Summary Reports?
- How to generate VM Performance Summary Reports?

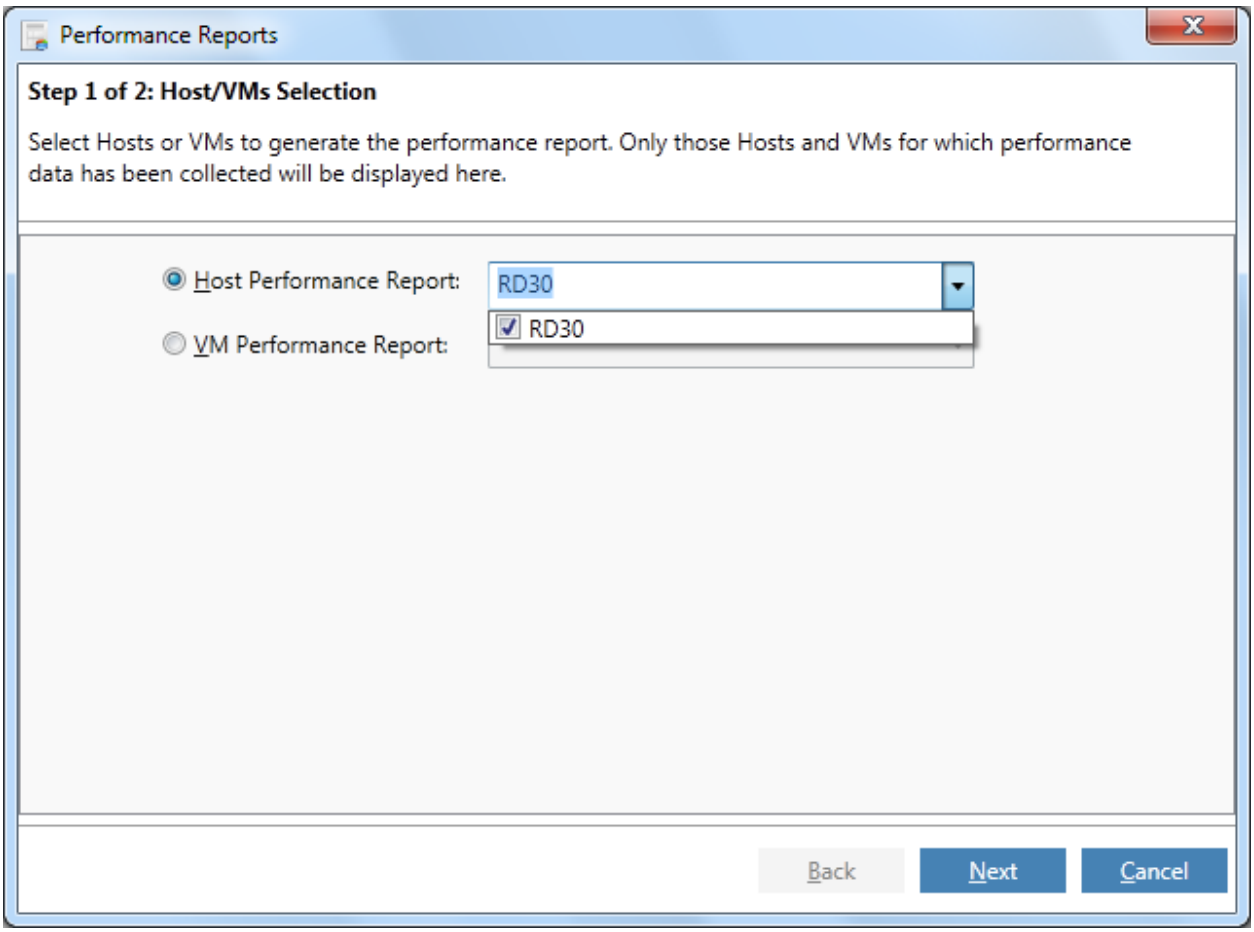
How to generate Host Performance Summary Reports?



Click under VM Performance Analyzer module. This will bring up the Performance Reports Wizard as shown below:

Step 1: Host/VMs Selection

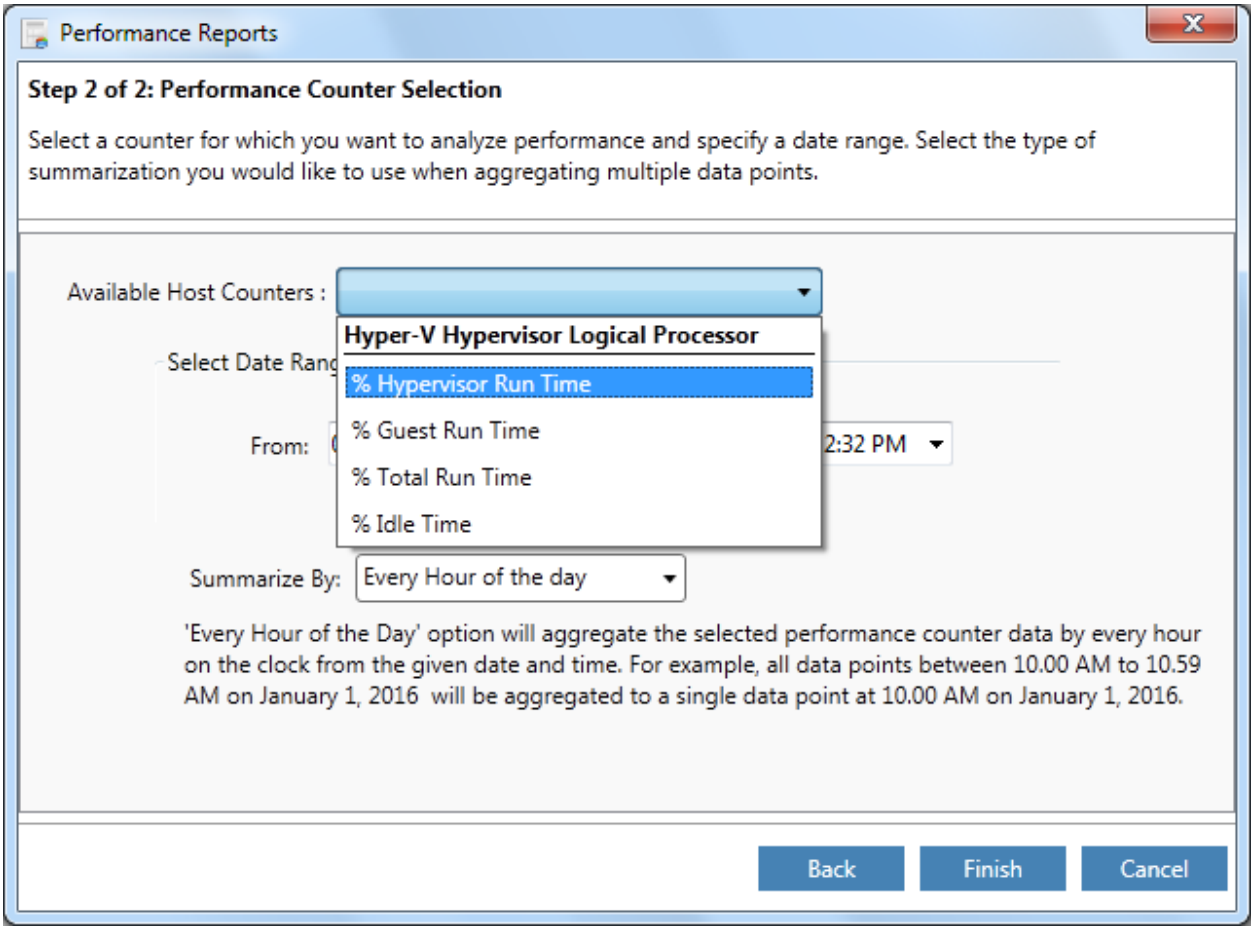
Select the hosts from the list of Host Performance Report drop-down. The hosts for which performance counter data has been collected will be displayed here.

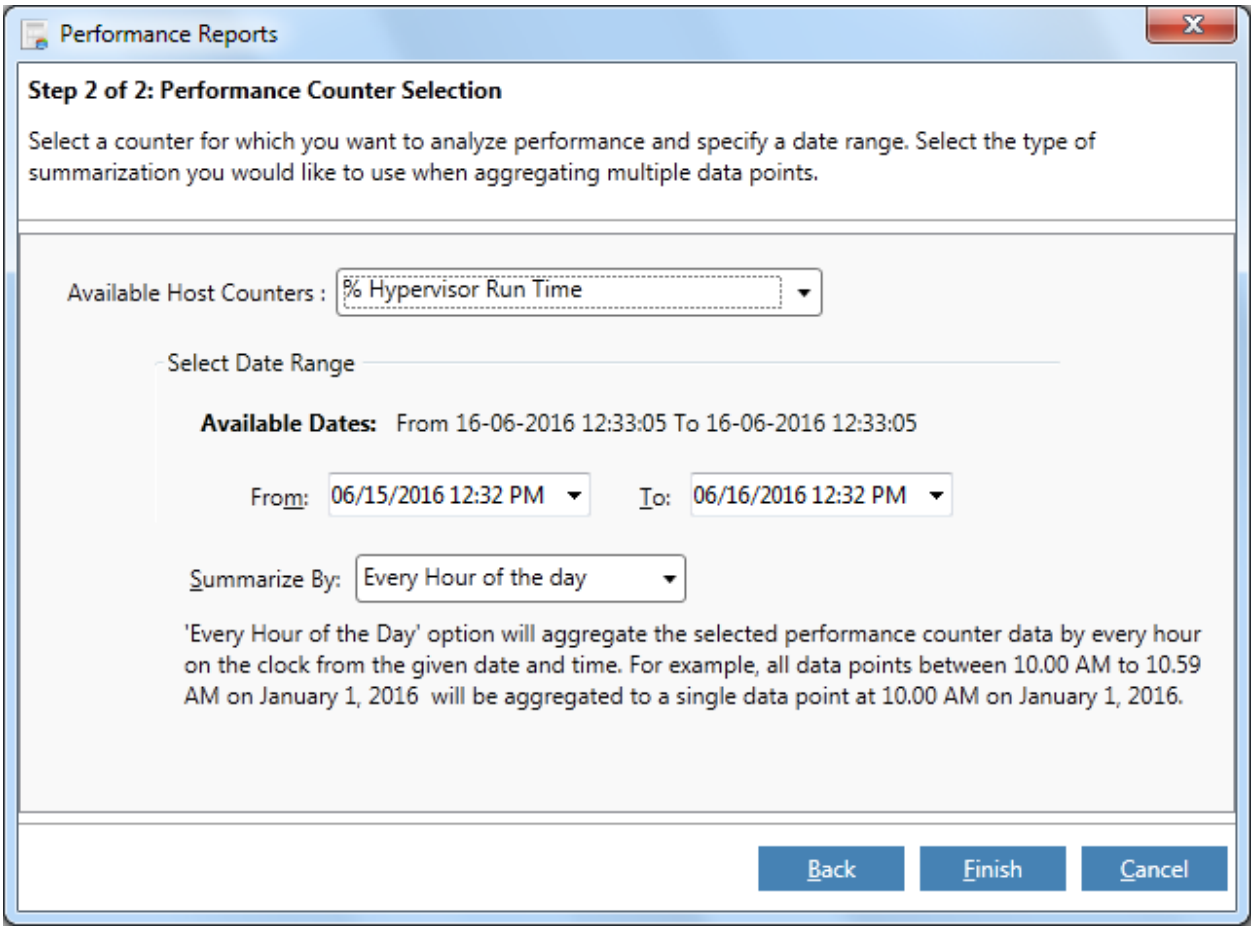


Click Next to proceed.

Step 2: Performance Counter Selection

Select a Performance counter from the list of Available Host Counters. Select a Date Range and the type of summary you would like to use when aggregating multiple data points.





Available Dates shows the start and end date range value for which collected data of the selected counter is available.

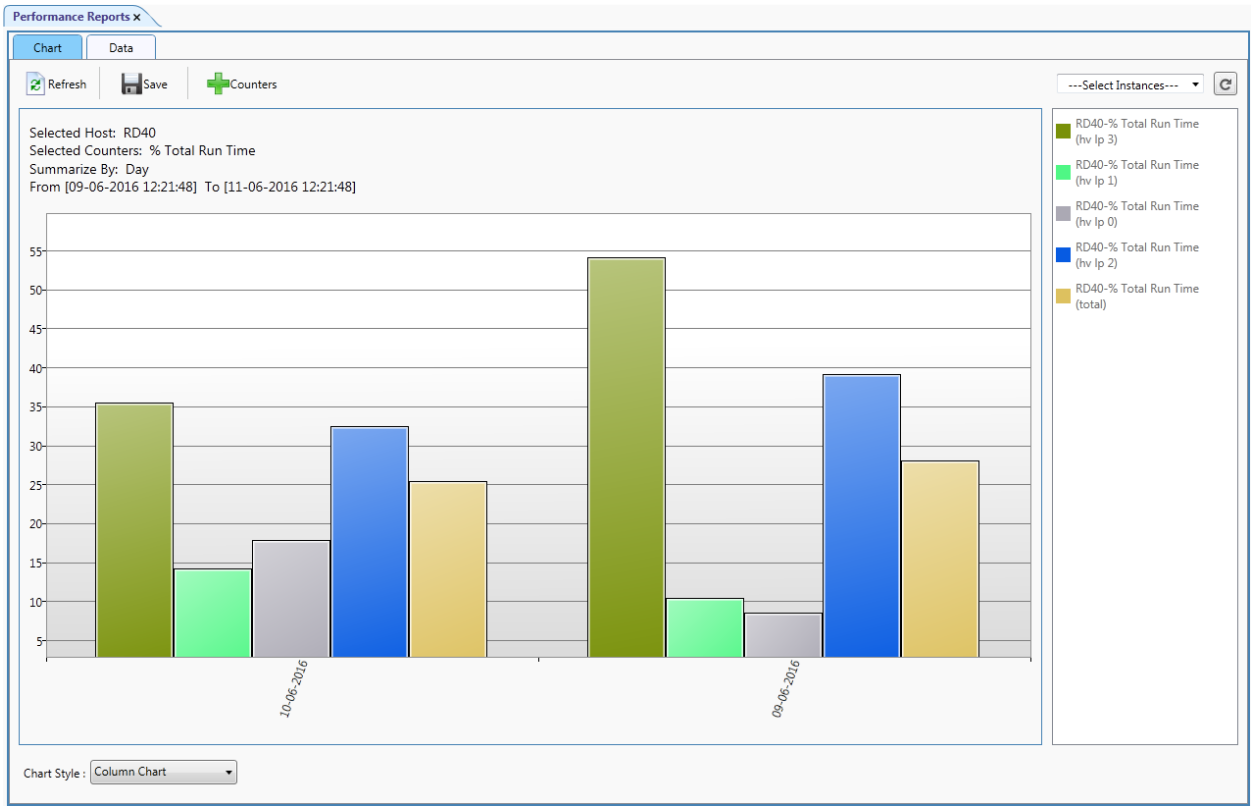
Summarize By option shows the following details as shown below:

- **Every 15 minutes of the day** - 'Every 15 minutes of the day' option will aggregate the selected performance counter data by every 15 minutes on the clock from the given date and time. For example, all data points between 10.00 AM to 10.14 AM on January 1, 2016 will be aggregated to a single data point at 10.00 AM on January 1, 2016.
- **Every Half hour of the day** - 'Every Half Hour of the day' option will aggregate the selected performance counter data by every half hour on the clock from the given date and time. For example, all data points between 10.00 AM to 10.29 AM on January 1, 2016 will be aggregated to a single data point at 10.00 AM on January 1, 2016.
- **Every Hour of the day** - 'Every Hour of the day' option will aggregate the selected performance counter data by every hour on the clock from the given date and time. For example, all data points between 10.00 AM to 10.59 AM on January 1, 2016 will be aggregated to a single data point at 10.00 AM on January 1, 2016.
- **Day** - 'Day' option will aggregate the selected performance counter by every day from the given date and time.
- **Day of week** - 'Day of week' option will aggregate the selected performance counter by every day of the week such as Monday, Tuesday and so on from the given date and time. For example, all

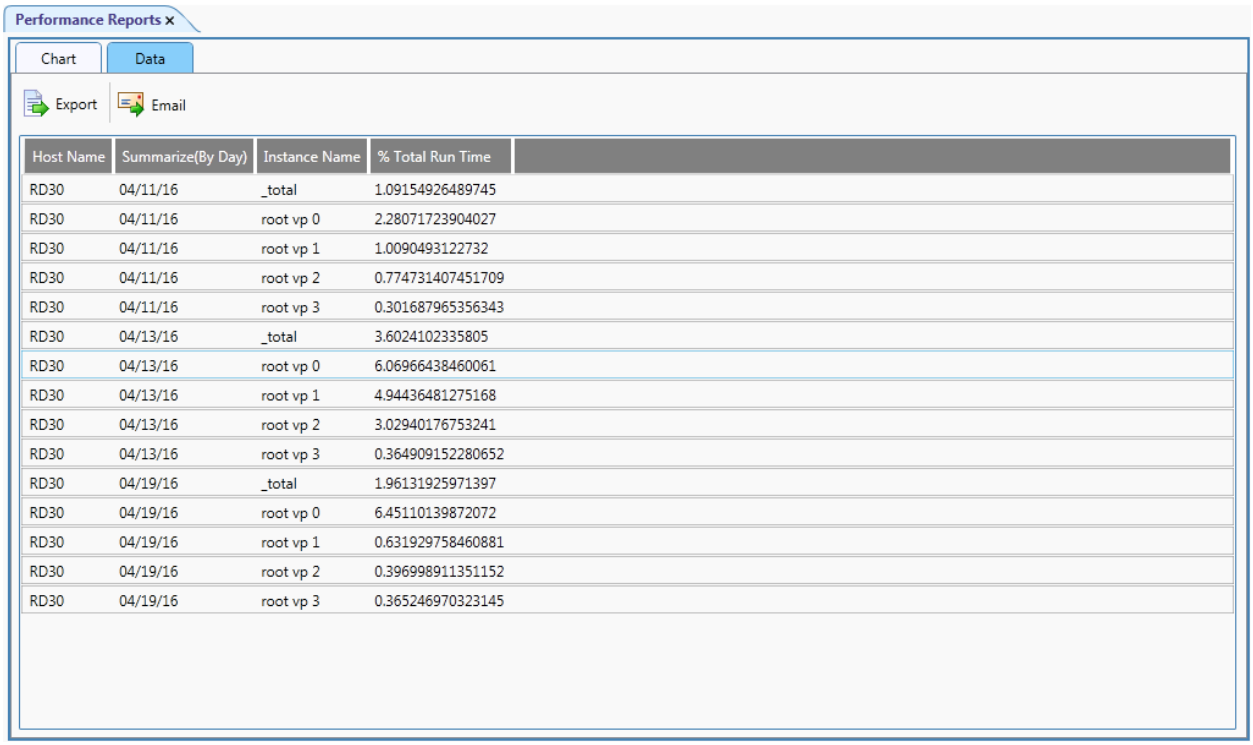
data points of Mondays will be collected and aggregated as a single data point called Monday. This will help you compare performance of each day of the week with the other days of the week.

- **Week** - 'Week' option will aggregate the selected performance counter by the week number from the given date and time.
- **Month** - 'Month' option will aggregate the selected performance counter by month, such as January, February and so on, from the given date and time. This will help analyze performance of workload with respect to seasonal variations such as holiday months.
- **Do Not Summarize** - 'Do Not Summarize' option will show the raw data point for selected performance counter from given date and time.

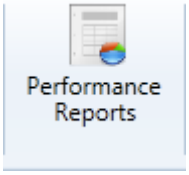
Click **Finish** to generate the report.



- You can use Chart Style option to change the view of the chart style.
- You can use Select Instances option to filter the instances of the performance counter.



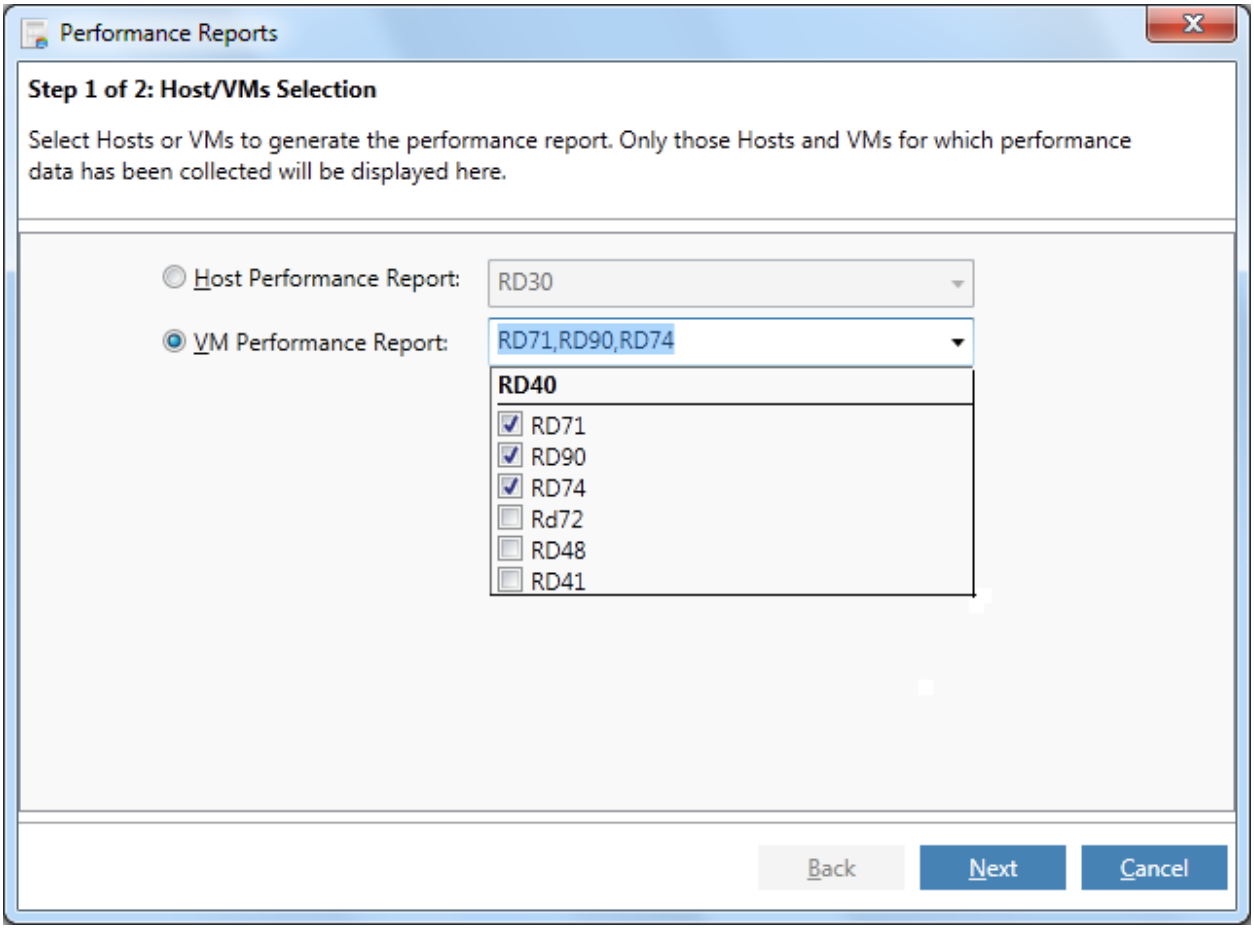
Host Name	Summarize(By Day)	Instance Name	% Total Run Time
RD30	04/11/16	_total	1.09154926489745
RD30	04/11/16	root vp 0	2.28071723904027
RD30	04/11/16	root vp 1	1.0090493122732
RD30	04/11/16	root vp 2	0.774731407451709
RD30	04/11/16	root vp 3	0.301687965356343
RD30	04/13/16	_total	3.6024102335805
RD30	04/13/16	root vp 0	6.06966438460061
RD30	04/13/16	root vp 1	4.94436481275168
RD30	04/13/16	root vp 2	3.02940176753241
RD30	04/13/16	root vp 3	0.364909152280652
RD30	04/19/16	_total	1.96131925971397
RD30	04/19/16	root vp 0	6.45110139872072
RD30	04/19/16	root vp 1	0.631929758460881
RD30	04/19/16	root vp 2	0.396998911351152
RD30	04/19/16	root vp 3	0.365246970323145



Click under VM Performance Analyzer module. This will bring up the Performance Reports Wizard as shown below:

Step 1: Host/VMs Selection

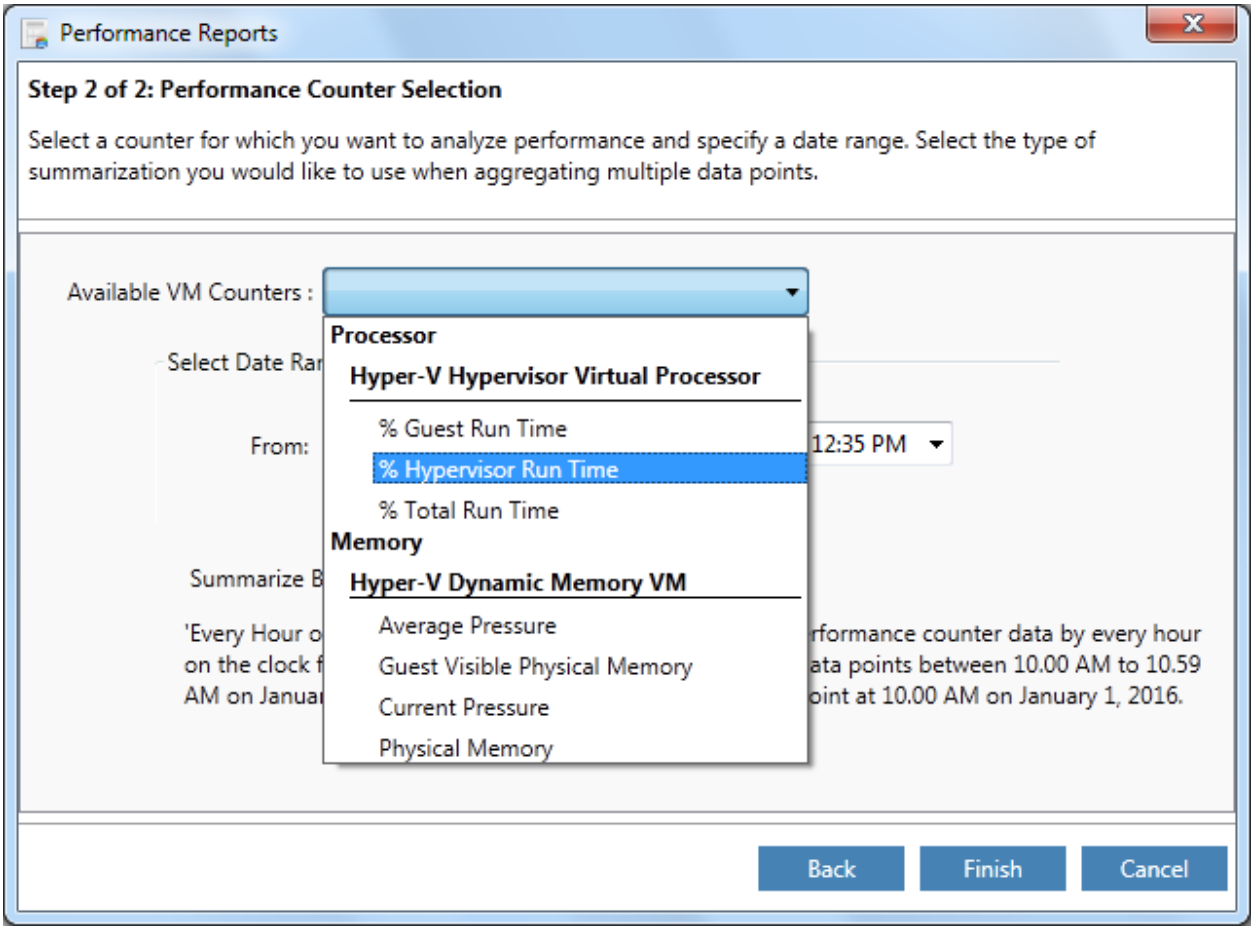
Select the VMs from the VM Performance Report drop-down. The VMs for which performance counter data has been collected will be displayed here.

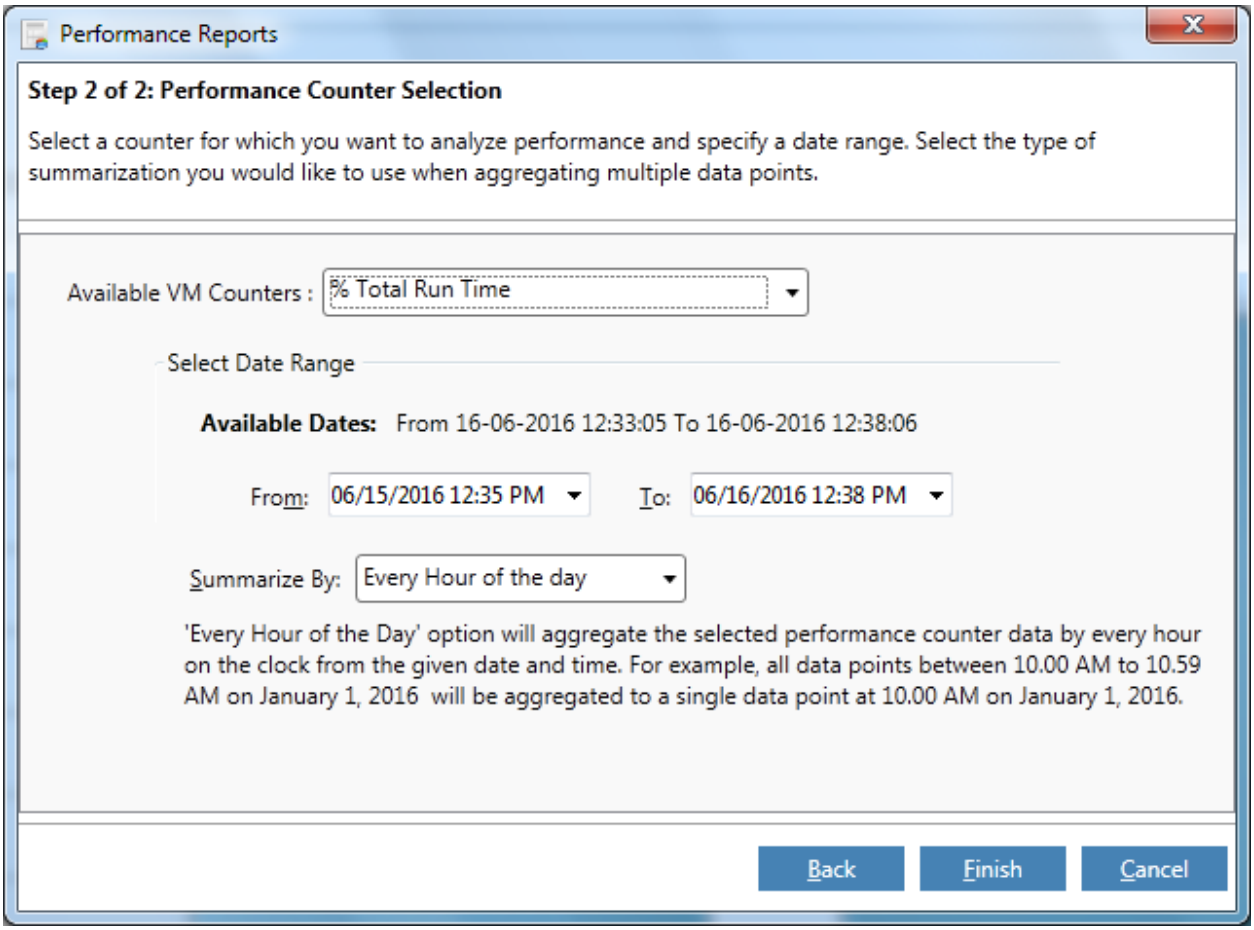


Click Next to proceed.

Step 2: Performance Counter Selection

Select a Performance counter from list of Available VM counters. Specify a Date Range and Select the type of summary you would like to use when aggregating multiple data points.





Available Dates shows the start and end date range value for collected data of the selected counter

Summarize By option shows the following details as shown below:

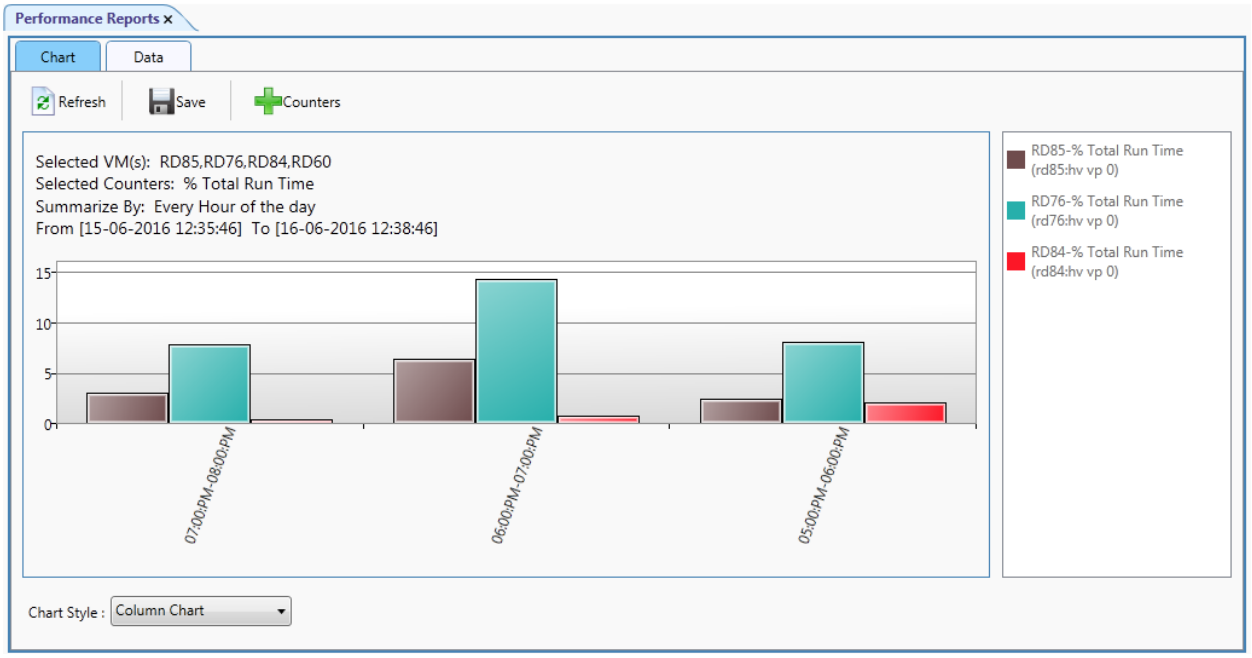
- **Every 15 minutes of the day** - 'Every 15 minutes of the day' option will aggregate the selected performance counter data by every 15 minutes on the clock from the given date and time. For example, all data points between 10.00 AM to 10.14 AM on January 1, 2016 will be aggregated to a single data point at 10.00 AM on January 1, 2016.
- **Every Half hour of the day** - 'Every Half Hour of the day' option will aggregate the selected performance counter data by every half hour on the clock from the given date and time. For example, all data points between 10.00 AM to 10.29 AM on January 1, 2016 will be aggregated to a single data point at 10.00 AM on January 1, 2016.
- **Every Hour of the day** - 'Every Hour of the day' option will aggregate the selected performance counter data by every hour on the clock from the given date and time. For example, all data points between 10.00 AM to 10.59 AM on January 1, 2016 will be aggregated to a single data point at 10.00 AM on January 1, 2016.
- **Day** - 'Day' option will aggregate the selected performance counter by every day from the given date and time.
- **Day of week** - 'Day of week' option will aggregate the selected performance counter by every day of the week such as Monday, Tuesday and so on from the given date and time. For example, all

data points of Mondays will be collected and aggregated as a single data point called Monday. This will help you compare performance of each day of the week with the other days of the week.

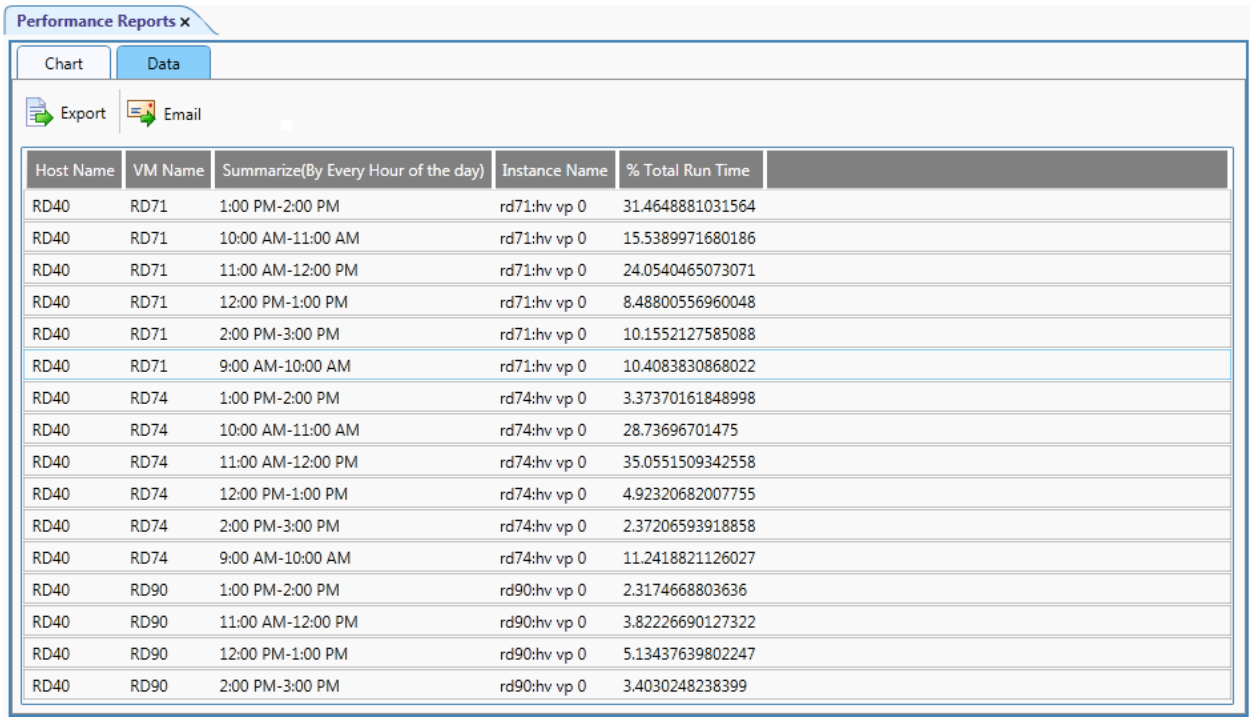
- **Week** - 'Week' option will aggregate the selected performance counter by the week number from the given date and time.
- **Month** - 'Month' option will aggregate the selected performance counter by month, such as January, February and so on, from the given date and time. This will help analyze performance of workload with respect to seasonal variations such as holiday months.
- **Do Not Summarize** - 'Do Not Summarize' option will show the raw data point for selected performance counter from given date and time.

Click **Finish** to generate the report.

Once the data collection process is complete, the report would be generated in a report window as shown below:



You can use **Chart Style** option to change the view of the chart style.



Host Name	VM Name	Summarize(By Every Hour of the day)	Instance Name	% Total Run Time
RD40	RD71	1:00 PM-2:00 PM	rd71:hv vp 0	31.4648881031564
RD40	RD71	10:00 AM-11:00 AM	rd71:hv vp 0	15.5389971680186
RD40	RD71	11:00 AM-12:00 PM	rd71:hv vp 0	24.0540465073071
RD40	RD71	12:00 PM-1:00 PM	rd71:hv vp 0	8.48800556960048
RD40	RD71	2:00 PM-3:00 PM	rd71:hv vp 0	10.1552127585088
RD40	RD71	9:00 AM-10:00 AM	rd71:hv vp 0	10.4083830868022
RD40	RD74	1:00 PM-2:00 PM	rd74:hv vp 0	3.37370161848998
RD40	RD74	10:00 AM-11:00 AM	rd74:hv vp 0	28.73696701475
RD40	RD74	11:00 AM-12:00 PM	rd74:hv vp 0	35.0551509342558
RD40	RD74	12:00 PM-1:00 PM	rd74:hv vp 0	4.92320682007755
RD40	RD74	2:00 PM-3:00 PM	rd74:hv vp 0	2.37206593918858
RD40	RD74	9:00 AM-10:00 AM	rd74:hv vp 0	11.2418821126027
RD40	RD90	1:00 PM-2:00 PM	rd90:hv vp 0	2.3174668803636
RD40	RD90	11:00 AM-12:00 PM	rd90:hv vp 0	3.82226690127322
RD40	RD90	12:00 PM-1:00 PM	rd90:hv vp 0	5.13437639802247
RD40	RD90	2:00 PM-3:00 PM	rd90:hv vp 0	3.4030248238399

VM Performance Monitor

Live Monitor

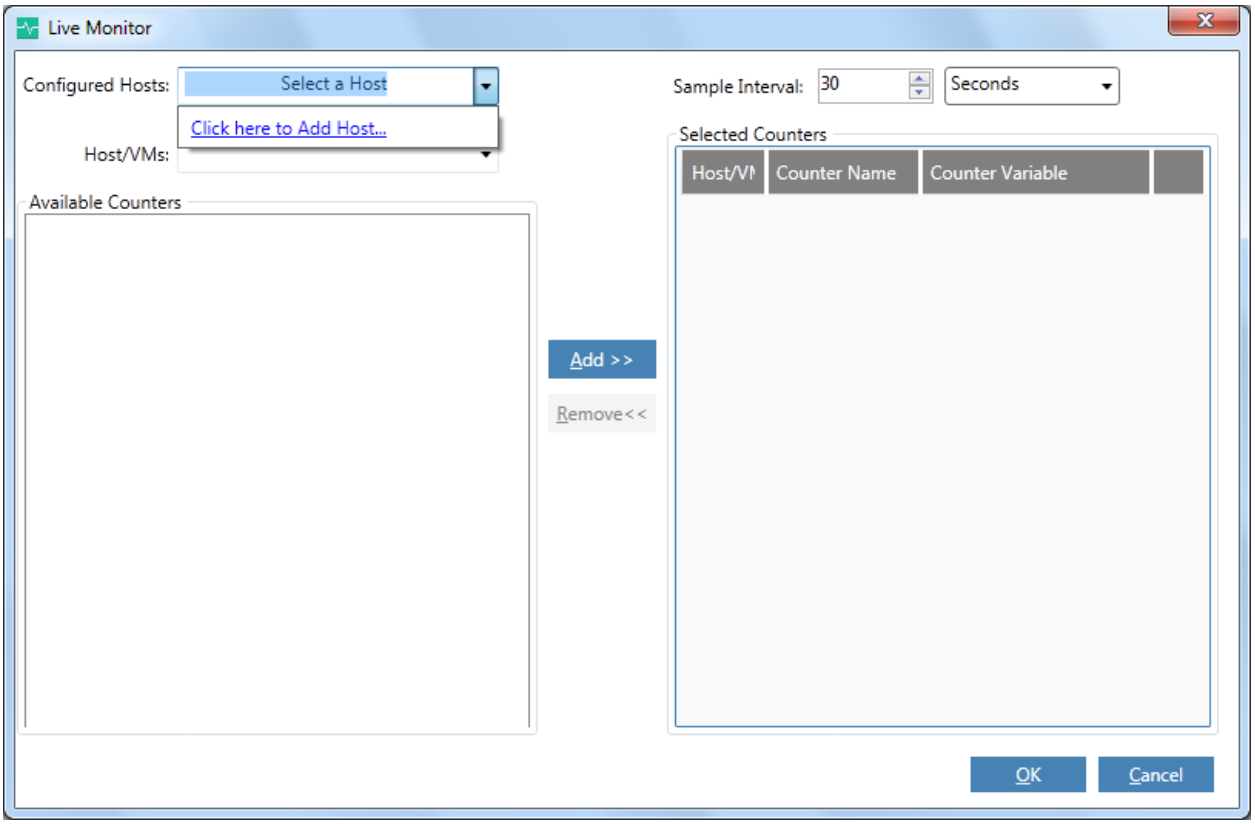
How to view the performance metrics in Live Monitor?

How to view the performance metrics in Live Monitor?

Live Monitor allows the administrators to keep a tab on the performance metrics of Hyper-V hosts and their VMs. It enables them to monitor important CPU, Memory, IO and Network resources using charts and tables in their environment.

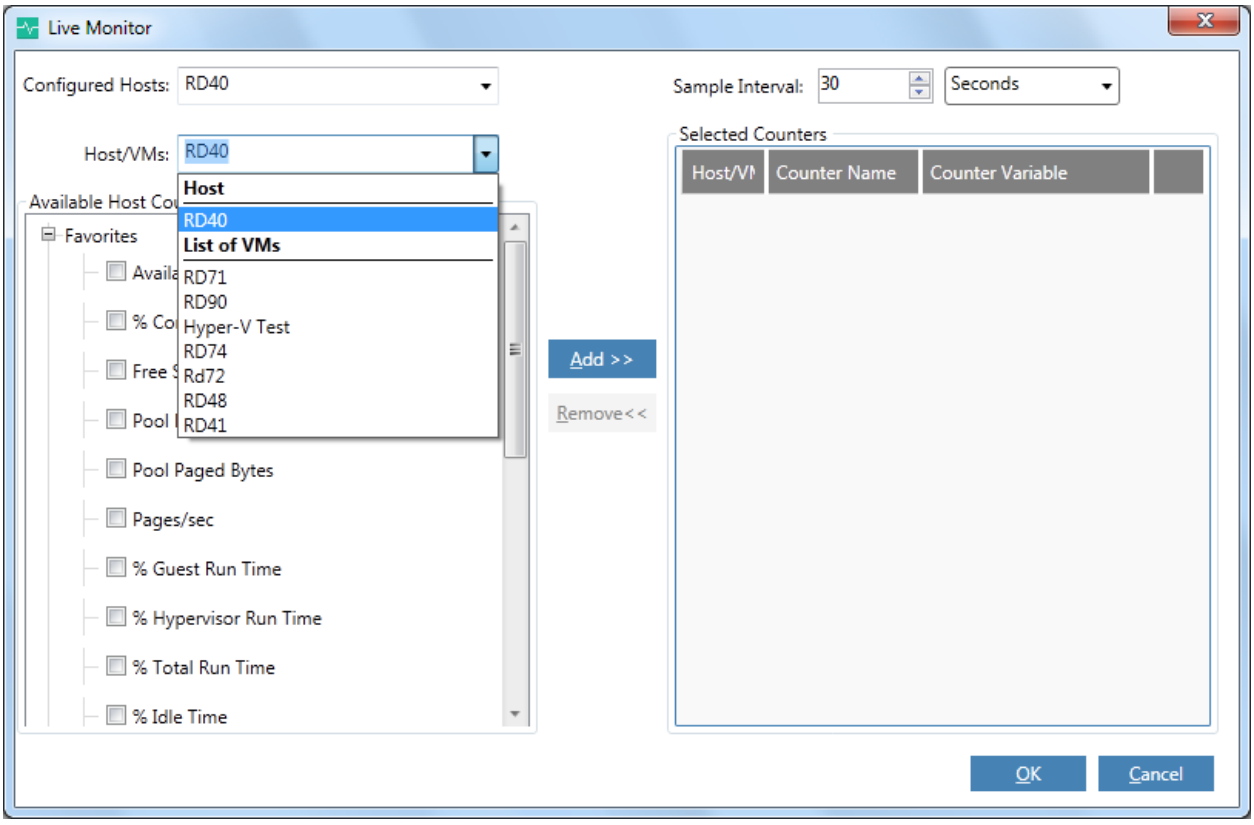
Click

under VM Performance Monitor module. This will show the Live Monitor window as shown below:

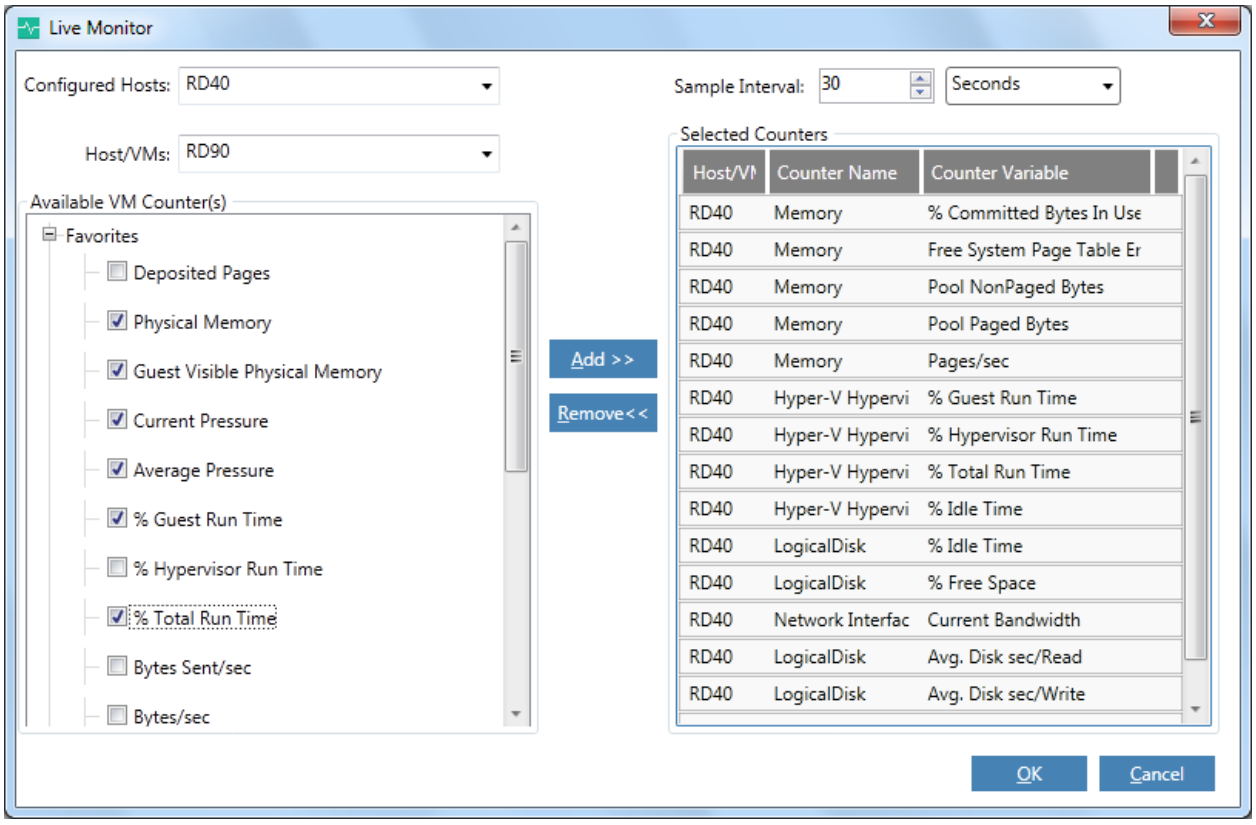


To configure a host for monitoring, click Click here to Add Host... menu.

Select a host from the list of Configured Hosts drop-down. The list of VMs in the selected host will be displayed in the Host/VM drop-down, as shown below:



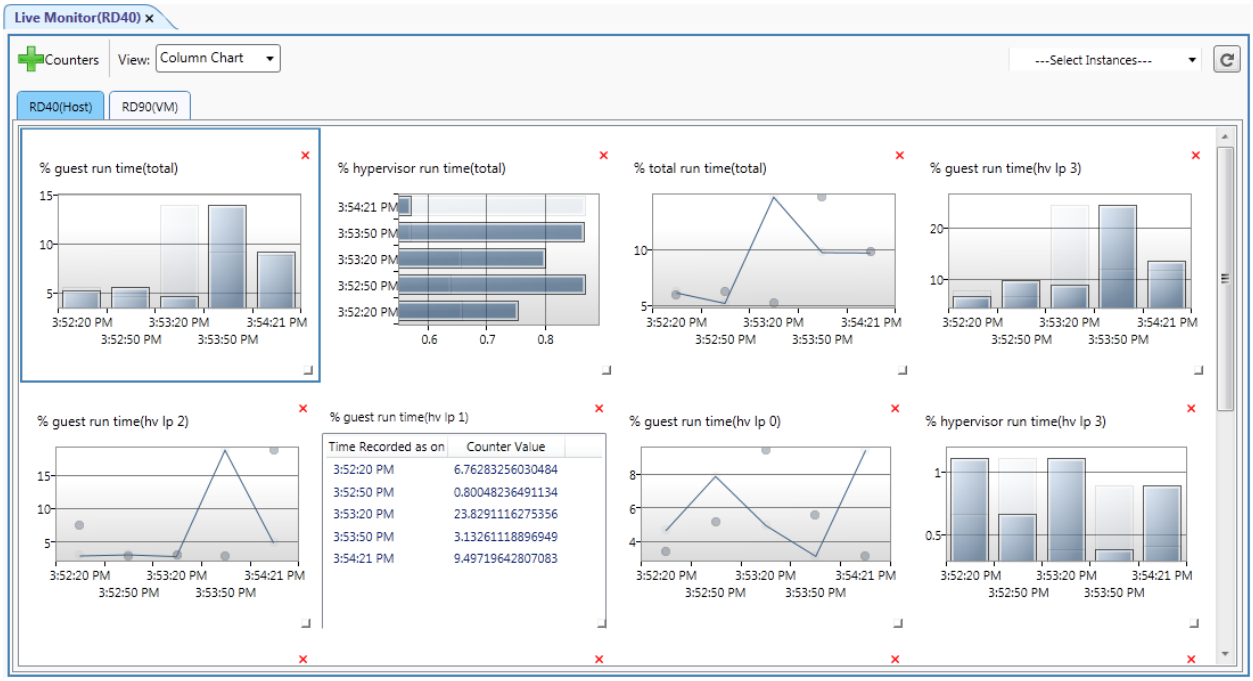
1. Select a host/VM. This will display the Performance counters for the selected host/VM in the tree view.
2. Select the desired counters using the checkboxes.
3. Click Add >> to add the selected counters.



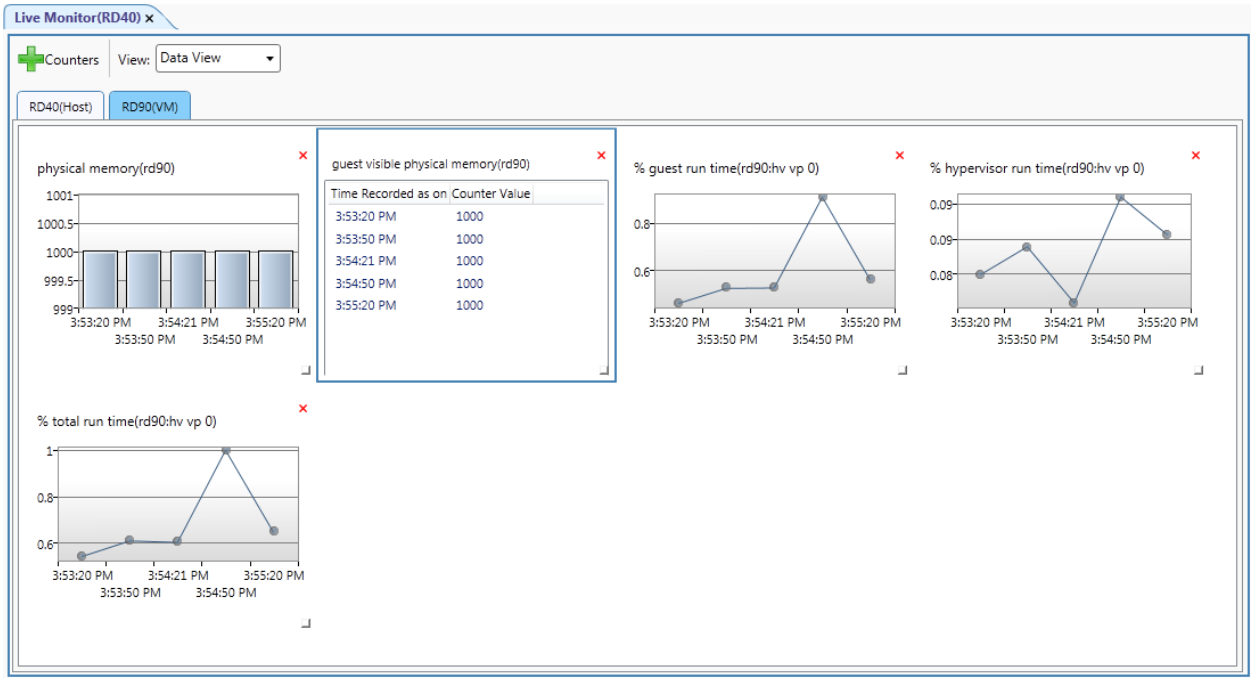
4. Set a Sample Interval time to collect and display the selected counters every sample interval.
5. Use button to remove the selected counters.

Click **OK** to proceed.

Once the data collection process is complete, the report would be generated in a report window as shown below:



You can also view the performance of Virtual Machines as shown below:



Additional Features

How to Add host?

How to Customize Fields?

How to Apply Filters?

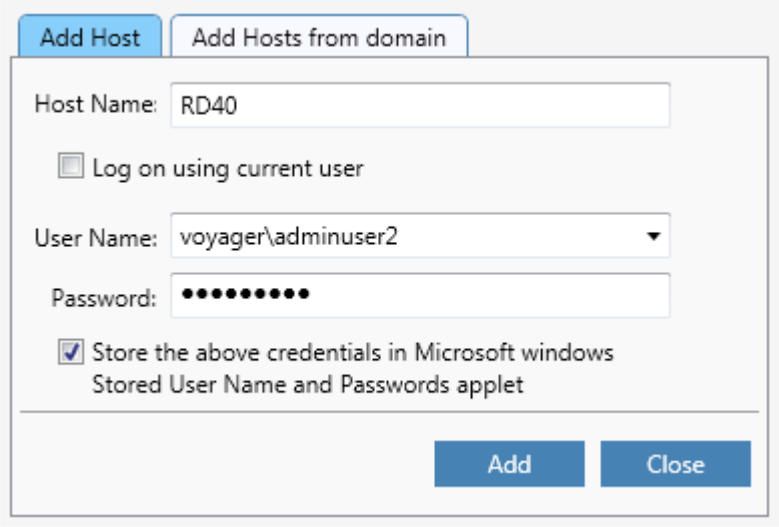
How to Refresh Data?

How to Export data?

How to E-mail data?

How to Add host?

Click **Add Host** tab to enter the host details manually.

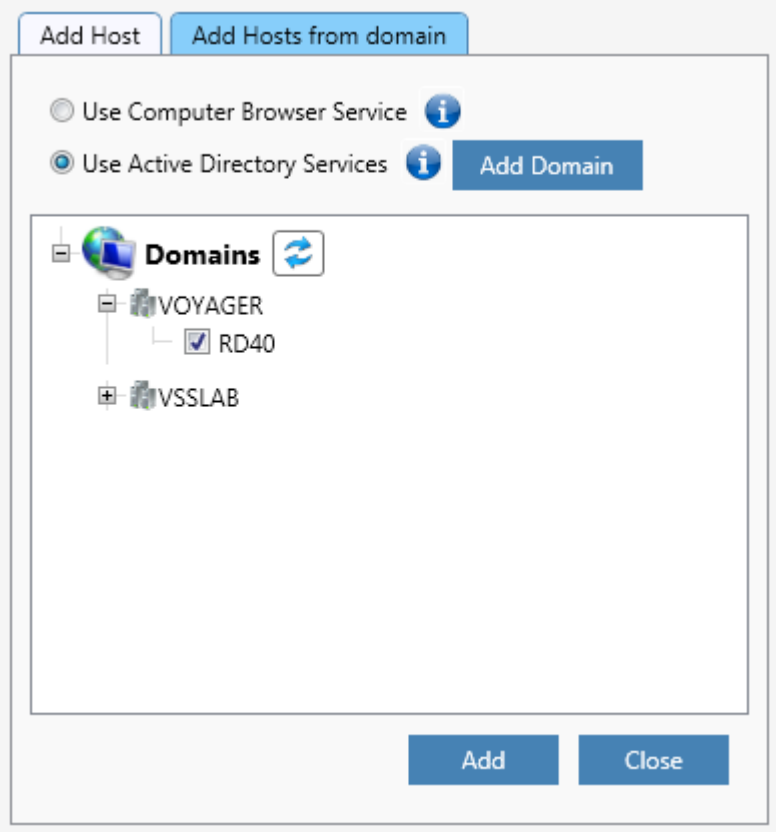


- Enter a valid host name.
- Deselect the 'Log on using current user' checkbox, if you like to connect to the host using a different user context.
- Specify an user name and the corresponding password to connect to the specified host.
- **Click**

button to configure the specified host

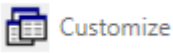
Click **Add hosts from domain** tab for enumerating hosts in your network automatically.

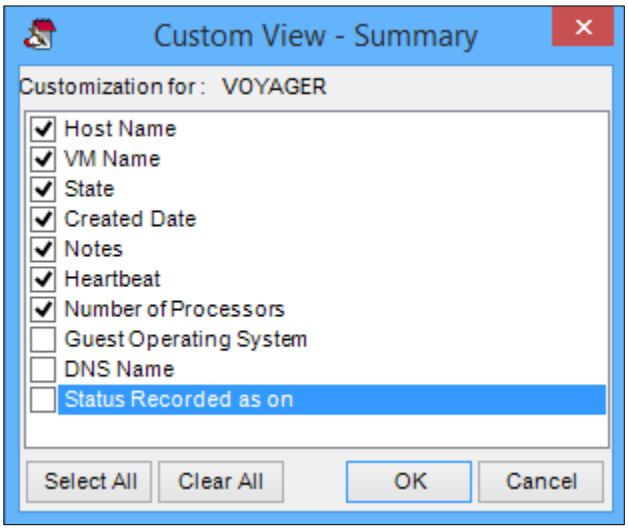
Vyapin Virtualization Management Suite uses either Computer Browser Service or Active Directory Services to enumerate computers in a network. You may use the Use Computer Browser service option if you have a smaller network, as it may take time for the Browser service to respond to data requests on large networks. The advantage of a Browser service is that it lists only those computers that are currently active/alive on your network. You may use the Active Directory Services option if you have a large network and you need a quicker enumeration of computers in your domain. However, this option requires that the domain controller is contacted and queried by using an user account. Accordingly, the currently logged on user must have sufficient privileges to connect to a domain controller or you may specify an alternate domain user credential for a domain controller. Select an option for enumerating computers in your domain as shown below:

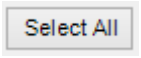


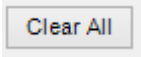
- Expand the desired domain to enumerate the list of hosts that are available in the domain.
- Click Add Domain to add a new domain to the domain list.
- Click Add button to add the selected host for using it across the product.

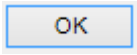
How to Customize fields?

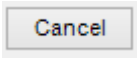
Click  for customizing the information.



Click  for selecting all the check boxes.

Click  for clearing all the check boxes.

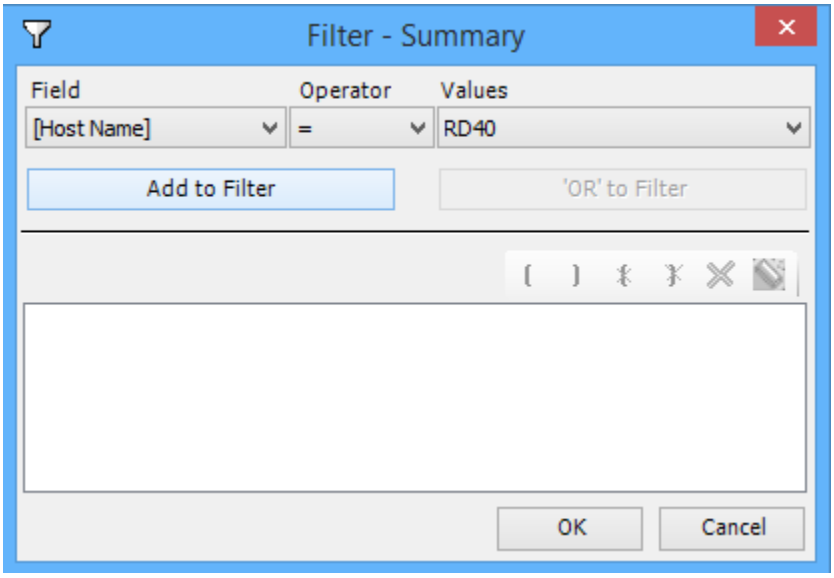
Click  button for confirming the changes.

Click  button for canceling the operation.

How to apply Filters?

Click for setting filter options.

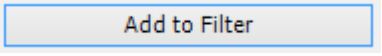
The Vyapin Virtualization Management Suite Filter window will be displayed.



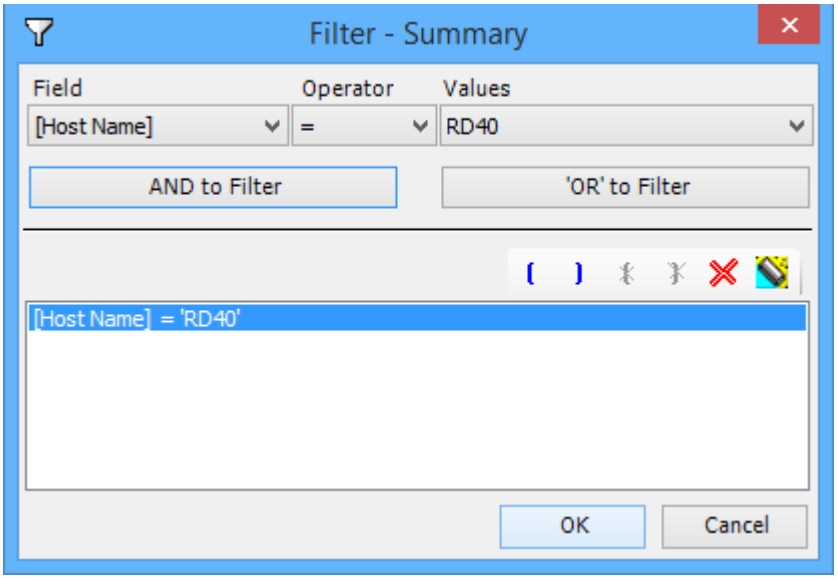
To set a filter condition, follow these steps.

1. Click (Clear All) button and clear the filter.

2. Choose a field name, an operator and a possible value from the respective dropdown options.

3. Click 

4. The **Add to Filter** will change to **AND to Filter**. The **OR to Filter** button will be enabled. The selected condition will be set as a filter and displayed (as shown below).



5. Click OK to apply the filter.

Note:

* Use the AND to Filter, 'OR' to Filter and to build enhanced filter condition as shown below:

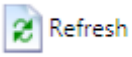
* (Field A = Value 1 AND Field B = Value 2) OR (Field C = Value 3 AND Field D = Value 4)

* Use to remove the parenthesis

* Use to delete a selected condition.

How to Refresh Data?

Refresh the current report data to view the latest information.

Click 

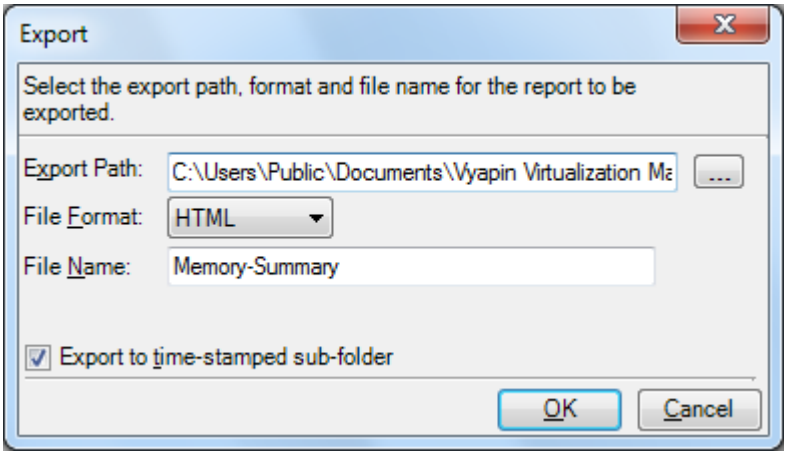
button in the toolbar available in the report window to refresh report data. The existing data will be cleared and latest data will be loaded in the report window.

How to Export Data?

The Export feature helps the user to export report data generated by Vyapin Virtualization Management Suite to a file using various formats namely HTML/CSV/XLSX.

Click

for exporting the information in the desired format or select Export option to export report data to a file in the desired format.



Specify a file name to export report data to or accept the default file name. Specify the export path and select a desired file format. The path refers to the destination location where the output file generated should be stored. It can be given using the Browse button. To avoid overwrite existing files, if any, in the specified export path, By default, the report will be exported to a time-stamped sub-folder, in the format 'YYYY-MM-DD HH.MM.SS', under the specified export path.

In XLSX file format, the information is stored as sheets in Excel file. For each report, a XLSX file will be generated. The name of the XLSX file will be the name of the report and is stored in the specified destination path if "Export to time-stamped folder" option is cleared. The XLSX file will be stored under a sub-folder, of the form YYYY-MM-DD HH.MM.SS, under the specified export path, if "Export to time-stamped folder" option is set.

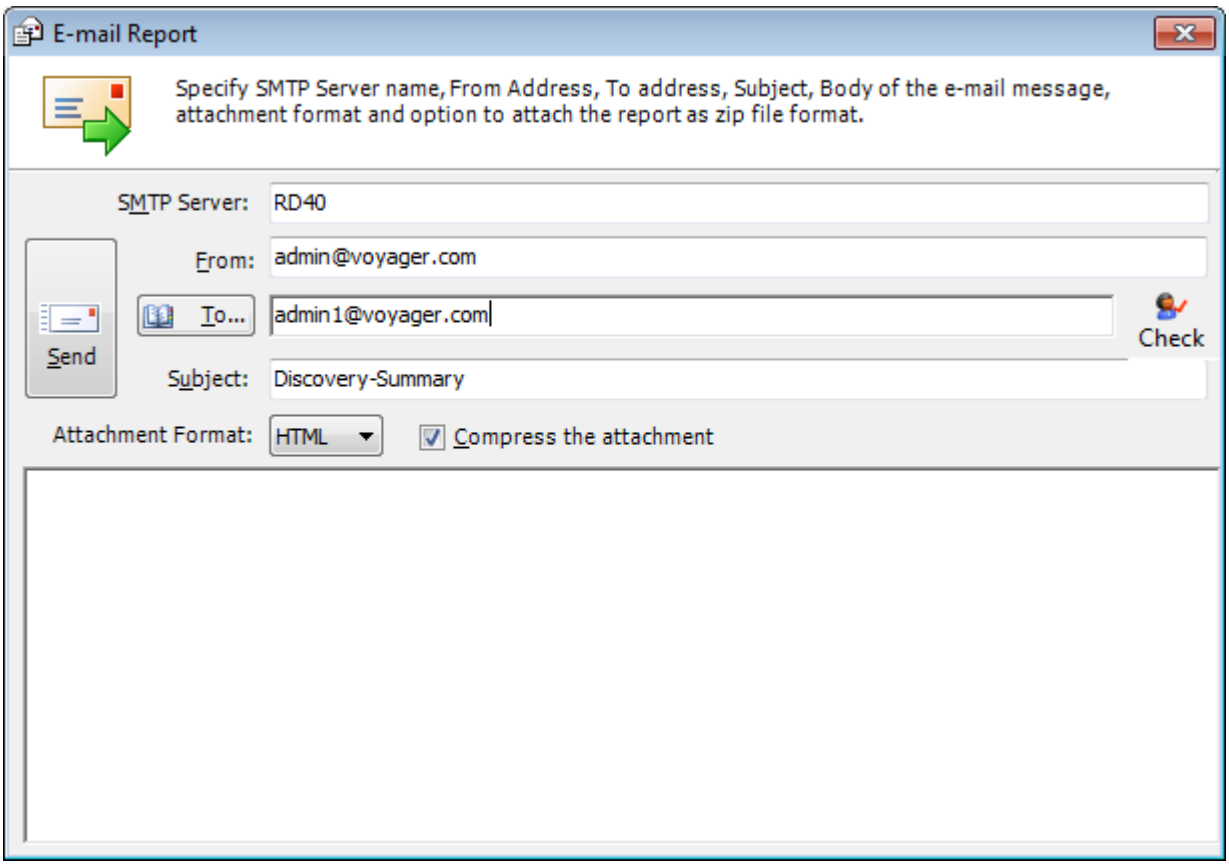
In CSV file format, the information is stored as comma separated values. For each report, a CSV file will be generated. The name of the CSV file will be the name of the report and is stored in the specified destination path if "Export to time-stamped folder" option is cleared or under a sub-folder, of the form YYYY-MM-DD HH.MM.SS, under the specified export path if "Export to time-stamped folder" option is set.

In HTML file format, the information is stored as a html file. For each report, a HTML file will be generated. The name of the HTML file will be the name of the report and is stored in the specified destination path if "Export to time-stamped folder" option is cleared or under a sub-folder, of the form YYYY-MM-DD HH.MM.SS, under the specified export path if "Export to time-stamped folder" option is set.

How to Email Data?

Vyapin Virtualization Management Suite provides the option to e-mail the reports generated.

Click button in the toolbar to e-mail the report to e-mail recipients. E-mail dialog will be displayed as shown below:



For e-mailing reports, Vyapin Virtualization Management Suite requires SMTP Server, From E-mail Address, To E-mail Addresses (recipients separated by semicolon) and the report attachment format.

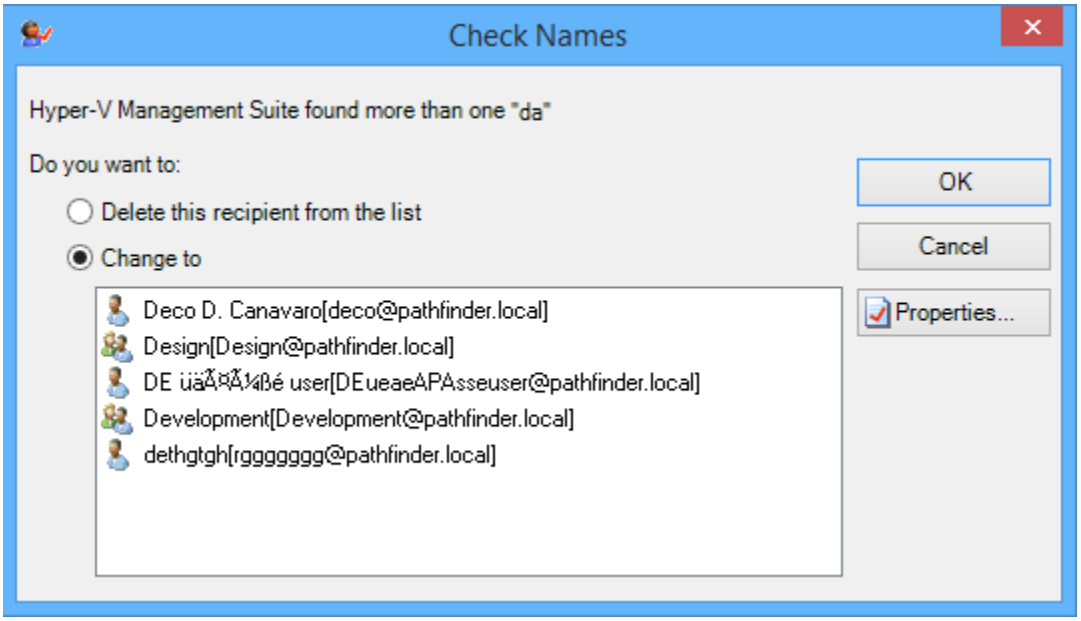
Specify SMTP server name, from Address, To address, mail subject, mail content, attachment format and option to compress the attachment.

Click button to send the report by e-mail to the selected recipients.

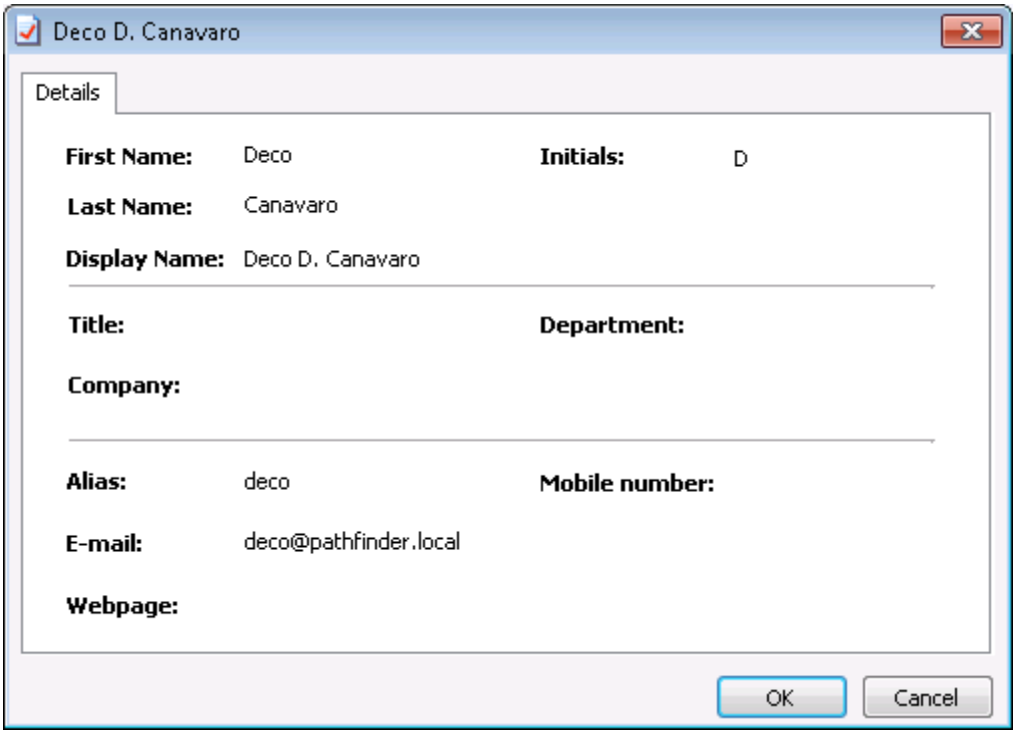
Check names

Vyapin Virtualization Management Suite provides check name feature to check the existence of corresponding mail-enabled recipient object in Active Directory. To check name, click

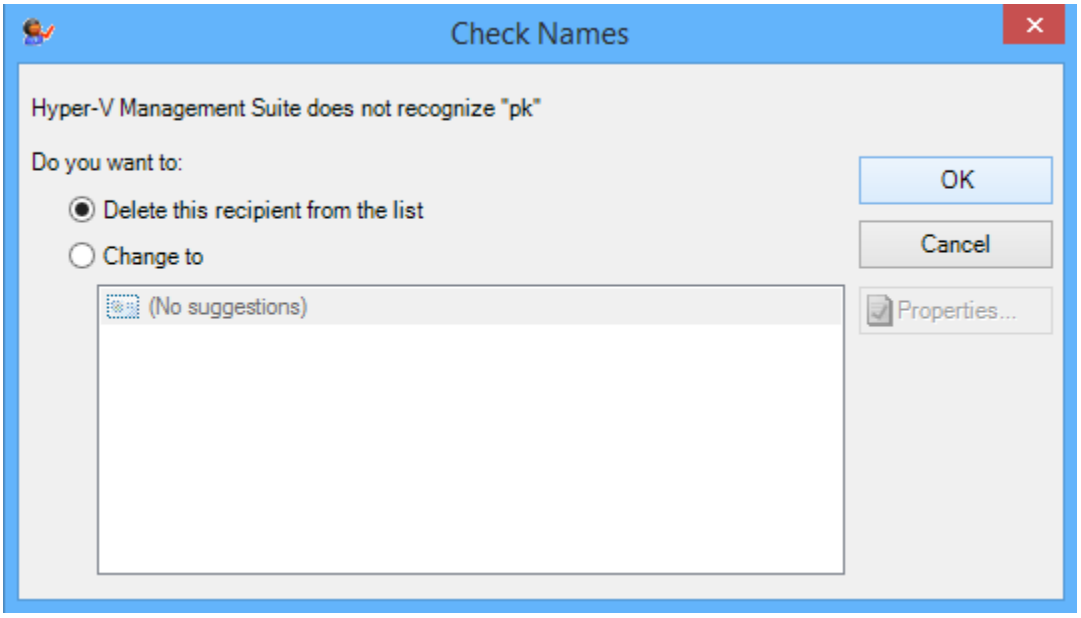
button. If the entered name matches with a mail object in the Active directory / its trusted domain, name entered in From address textbox will be replaced by the corresponding active directory recipient object. If there is more than one match, a dialog which contains matching Active Directory recipients will appear as shown below. You can select one or more recipient and click OK.



***** To get more information about the listed recipients under Change to, select the name, and then click.

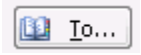


If there is no match for the name entered by the user in Active Directory, a dialog will appear as shown below:

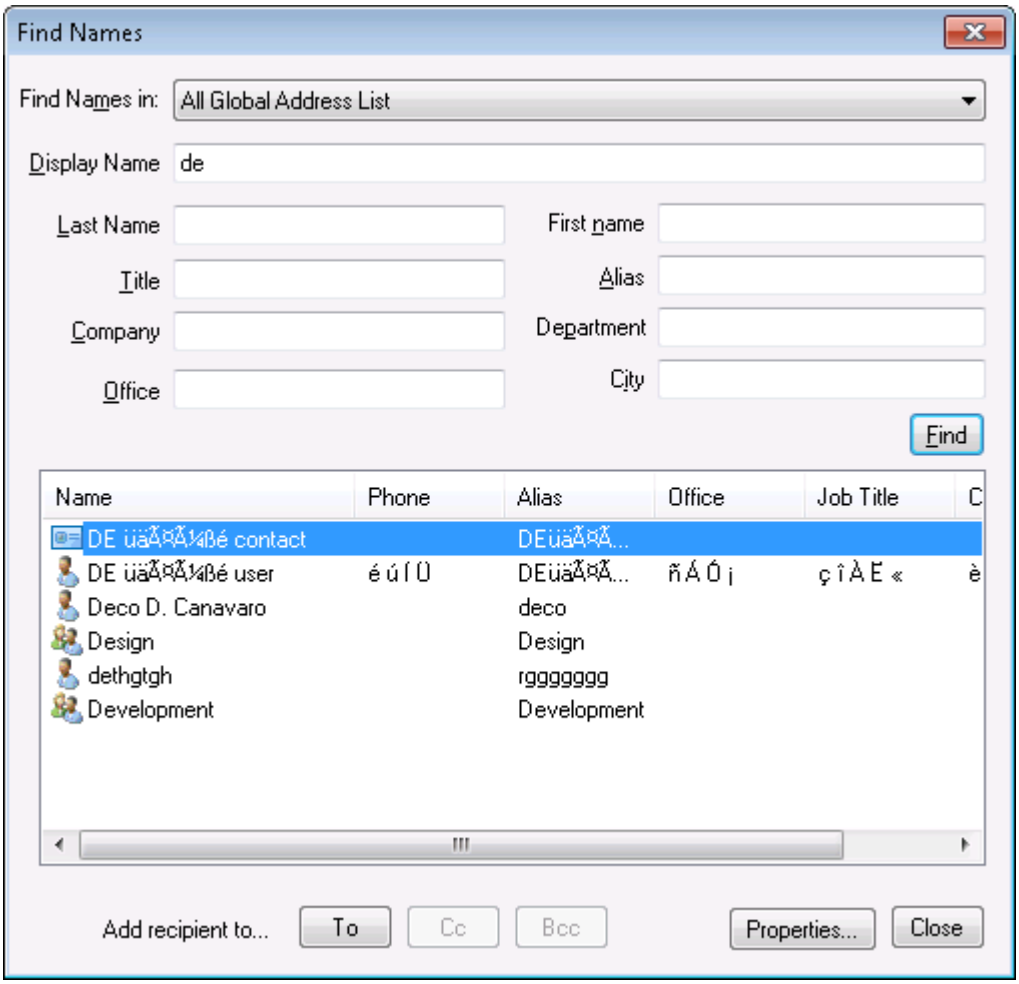


Select Delete option in the above dialog to remove the recipient name from To address text box. Click Cancel button to close this dialog and the unresolved recipient(s) will appear in red color.

Address Book

Vyapin Virtualization Management Suite provides Address Book feature to search for any mail enabled recipient object (say, person, distribution list, contact, public folder) you want to send a message to. Click 

button and then use the **Find Names** dialog box to search for the recipient object you want to send a message to. (Note that you can't use the **Find Names** dialog box to search for distribution lists in your Contacts folder.) Select the object's name in the list and then click **Add recipient to...To**.



To get more information about one of the names in the list, such as department or phone number, select the name, and then click.

References

Troubleshooting

How to uninstall Vyapin Virtualization Management Suite?

Troubleshooting

If and when a problem arises, please forward the following information to support@vyapin.com to revert back to you with a solution. These files will be available where Vyapin Virtualization Management Suite is installed.

Error Log File

E.g., <Application Data Folder>\Vyapin Virtualization Management Suite.Log

Note

<Application Data Folder> is the common area where Vyapin Virtualization Management Suite settings will be stored in the machine running Vyapin Virtualization Management Suite. The <Application Data Folder> can be found from the Help -> About screen. The default path of <Application Data Folder> is as follows:

Windows 7, Windows 8, Windows 8.1, Windows 10, Windows Server 2008, Windows Server 2008 R2 Windows Server 2012, Windows Server 2012 R2 - C:\Users\Public\Documents\Vyapin Virtualization Management Suite

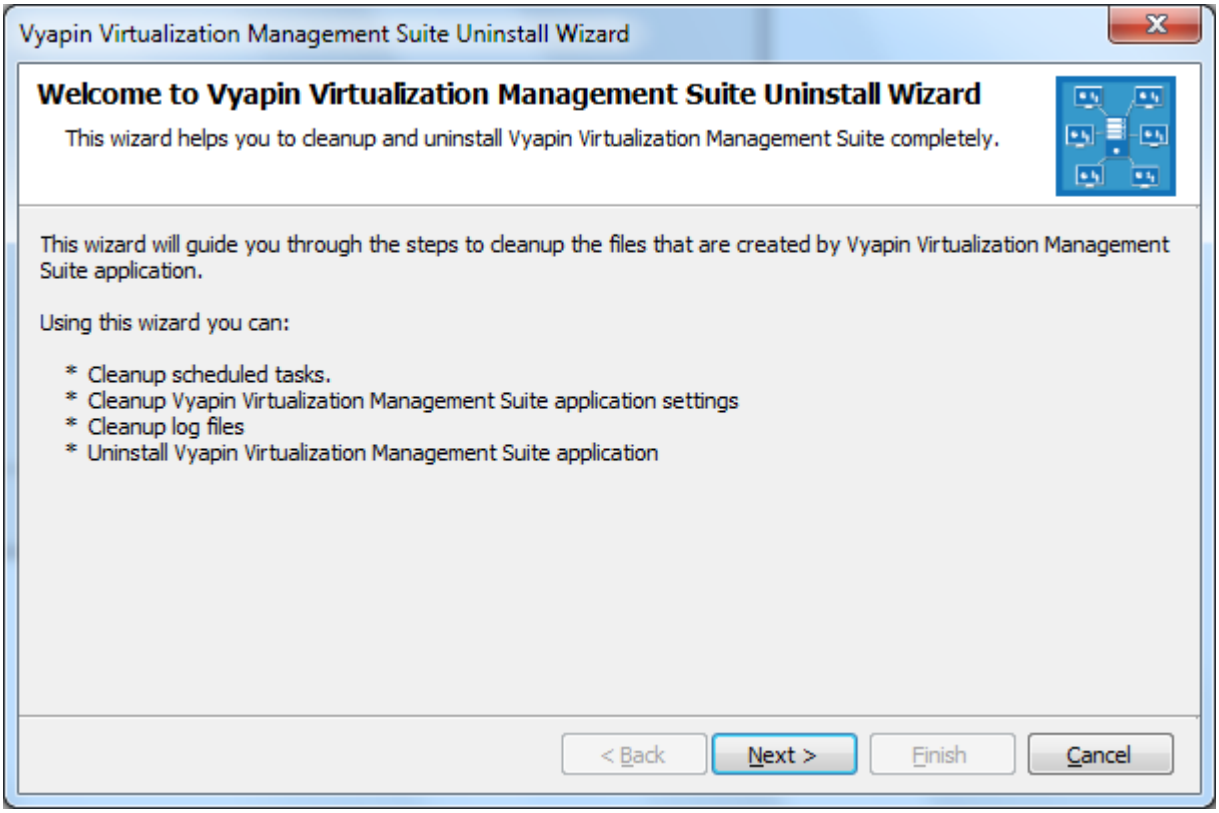
How to uninstall Vyapin Virtualization Management Suite

When you uninstall Vyapin Virtualization Management Suite through Control Panel - Add / Remove Programs applet, Windows Installer program will remove only the application files from your machine. But, the application related files created by Vyapin Virtualization Management Suite remain in the computer. In order to remove Vyapin Virtualization Management Suite worker files completely, the uninstall wizard provides a set of cleanup options to perform the cleanup operation based upon your selection.

Use this wizard to cleanup the files that are created by Vyapin Virtualization Management Suite application selectively and uninstall Vyapin Virtualization Management Suite completely from the machine.

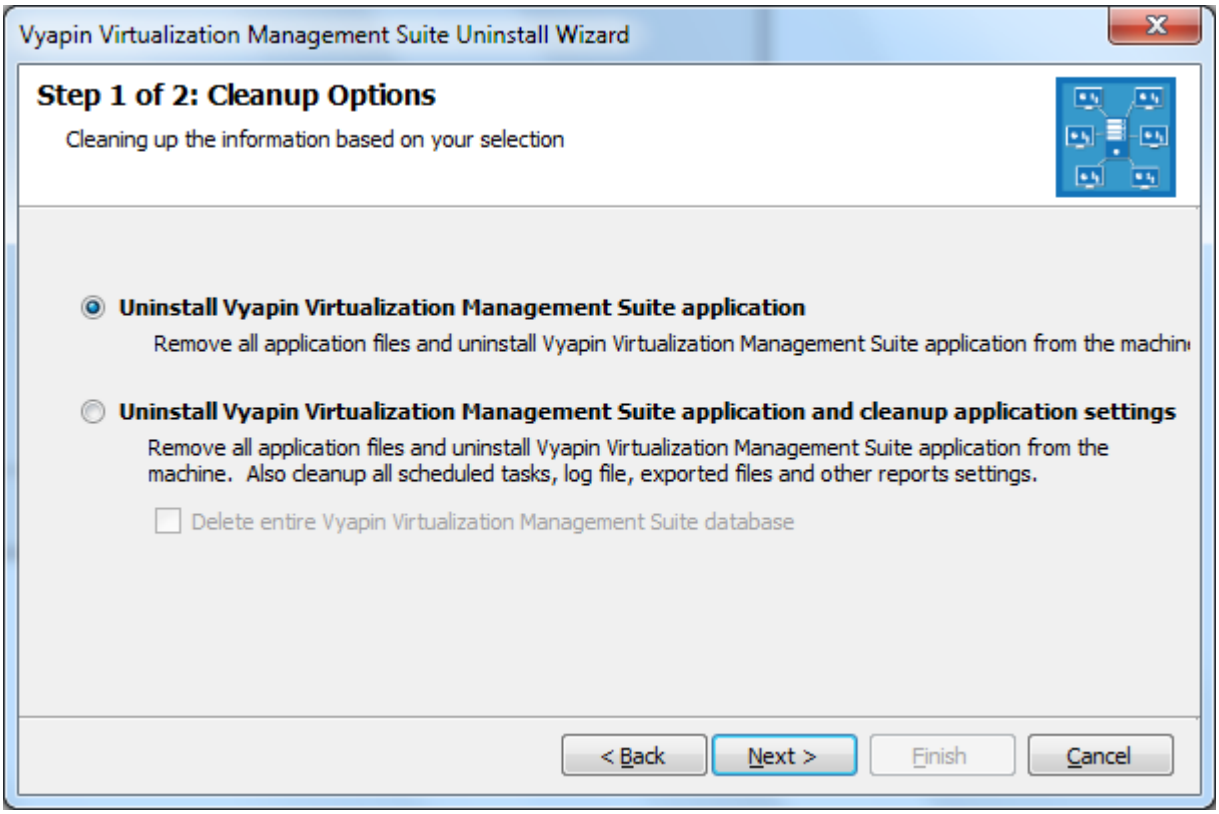
1. Launch the uninstall wizard by clicking Start -> Programs -> Vyapin Virtualization Management Suite -> Uninstall Hyper-V Management Suite.

   The **Vyapin Virtualization Management Suite Uninstall Wizard** dialog will be shown as below:



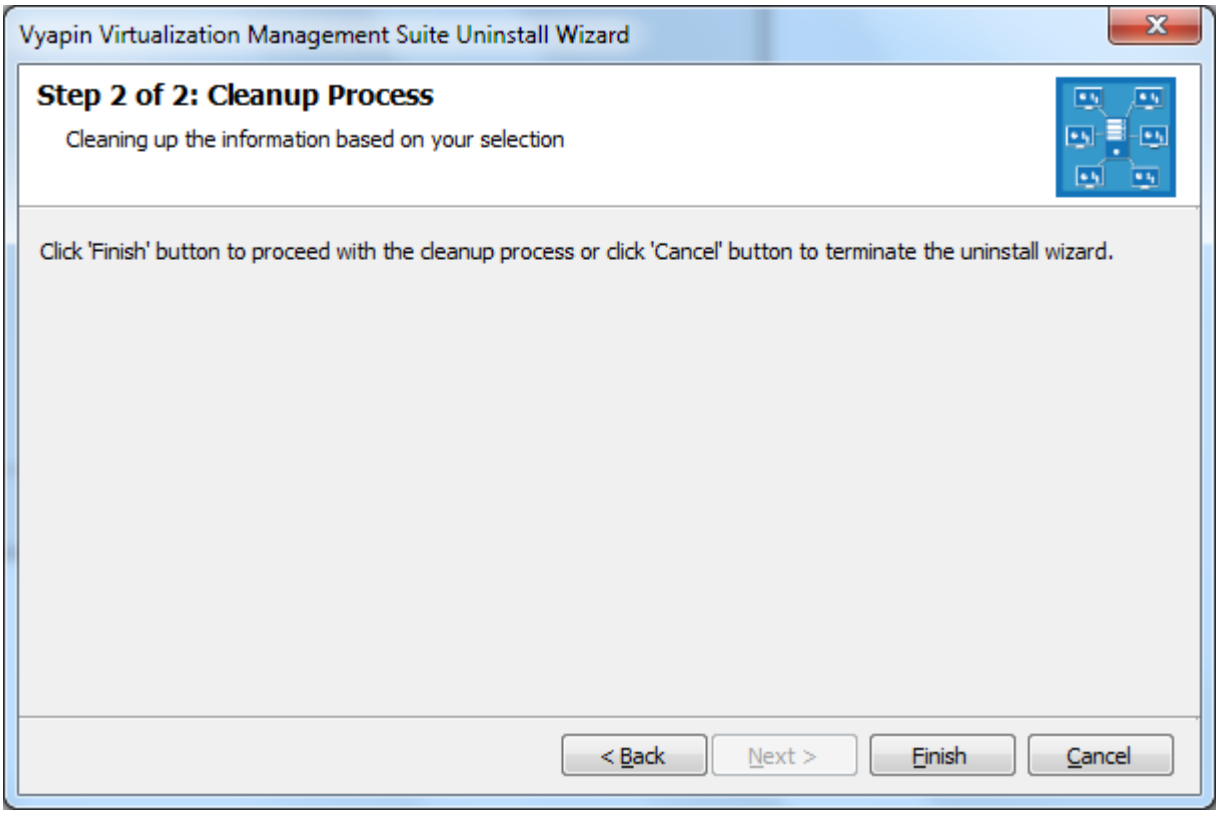
   Click Next to proceed.

2. Select required cleanup options as shown below:



Click Next to proceed.

3. Confirm the cleanup and/or uninstall process.



Click **Finish** to run cleanup and/or uninstall process. Click **Cancel** to close the wizard.

4. Once the file cleanup process is complete, the uninstall wizard will automatically run Windows Installer program to remove **Vyapin Virtualization Management Suite** application from the machine.