

Asset Performance Management On-Premises APM V5.2.2.0.0

Advanced Visualization

Contents

Chapter 1: Overview	1
About Advanced Visualization	2
Access the Advanced Visualization Page	2
Chapter 2: Deployment	3
Deploy Advanced Visualization for the First Time	4
Required Server Ports	4
System Requirements	4
Advanced Visualization Installation Steps	6
Advanced Visualization Post-Installation Steps	15
Uninstall Advanced Visualization	16
Chapter 3: Upgrade	17
Upgrade or Update Advanced Visualization to V5.2.2.0.0	18
Upgrade from any version V5.2.0.0.0 through V5.2.1.0.0	18
Upgrade from any version V5.1.0.0.0 through V5.1.4.0.0	18
Upgrade from any version V5.0.1.0.0 through V5.0.7.0.0	18
Chapter 4: Data Sources	19
About Advanced Visualization Data Sources	20
Create a Data Source using an APM Query	20
Chapter 5: Migrating Data into HyperStage	25
Migrate Data into HyperStage	26
Chapter 6: Creating Visualizations	27
Create Charts using Data Sources	28
Create Charts using Queries	28
Configure Filters in Visualizations	29

Chapter 7: Navigating from Charts	33
About Navigating from a Chart or Dashboard to the Corresponding APM Module	34
About Configuring Drill-Downs using URLs	34
Configure a Drill-Down for a Chart to Access Data in the Corresponding Module	34
Chapter 8: Setting Dashboard as Home Dashboard	38
Set a Dashboard as the Home Dashboard	39
Chapter 9: Exporting Dashboard	40
About Exporting Dashboard	41
Chapter 10: Baseline Dashboards	43
Baseline Dashboards	44
Chapter 11: Reference	45
General Reference	46

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Chapter

Overview

Topics:

- About Advanced
 Visualization
- Access the Advanced Visualization Page

About Advanced Visualization

Advanced Visualization provides you a powerful way to visualize and collaborate on the data that is available within APM Classic by connecting, aggregating, and analyzing data through business intelligence (BI) like capability.

The APM Advanced Visualization module enables you to create customized dashboards and portals that display APM information in the form of charts or reports. This provides advanced business intelligence type capabilities to connect, aggregate, and analyze the vast amount of data that is available to you in the system. These visualizations provide you with access to powerful tools that can be used to monitor asset health, manage reliability, plan strategy, and maintain integrity by sharing and collaborating with various users and stakeholders within your organizations.

Access the Advanced Visualization Page

Before You Begin

Access the APM log in page and then navigate to the Applications menu.

Procedure

In the **Applications** menu, navigate to the **TOOLS** section, and then select **Advanced Visualization**.

≡ 🏠 Advance...ization E Q @ @ & Query Helper Advanced Visualization My Workspace Shared with Me Workspaces + Visualize Data 💷 RECENTS VIEW ALL 49 K ٢ alth alth ACA Report APM Overview PLANNED PRODUCTION VS LOSSES PlannedProductionVsLosses Production Loss Analysis PLA dashboard FAVORITES VIEW ALL Looks like you haven't added any favorites yet PORTALS VIEW ALL

The Advanced Visualization page appears.

Chapter 2

Deployment

Topics:

- Deploy Advanced Visualization for the First Time
- Required Server Ports
- System Requirements
- Advanced Visualization
 Installation Steps
- Advanced Visualization
 Post-Installation Steps
- Uninstall Advanced
 Visualization

Deploy Advanced Visualization for the First Time

APM delivers an installation package that includes files needed for a successful implementation of Advanced Visualization. The topics outline the steps that you must complete to deploy and configure this module for the first time. These instructions assume that you have completed the steps for deploying the basic APM system architecture. Ensure that you install Advanced Visualization on a different server from the one on which you have installed APM.

About This Task

These tasks may be completed by multiple people in your organization. We recommend, however, that the tasks be completed in the order in which they are listed.

Task	Notes
Open the required server ports.	This step is required.
Review the Advanced Visualization system requirements.	This step is required.
Review the database requirements.	This step is required.
Run the Advanced Visualization Installer.	This step is required.

Required Server Ports

To provide communication between Advanced Visualization and other systems, make sure the listed ports are open.

Table 1: Port Details

Port Numbers	Description
80, 8005, 8080, 8120, 9090	Used by Advanced Visualization User Interface.
9006	Used by Advanced Visualization User Interface. This port is required only if Advanced Visualization is installed on the same machine as APM.

System Requirements

License Requirements

This feature is available with the core APM application; no specific license is required.

Hardware Requirements

The following hardware requirements outline the minimum hardware required for any computer that will be set up for Advanced Visualization. These minimum requirements may not be sufficient, depending upon how your system is configured and the anticipated user load the system must service.

Table 2: Hardware Requirements

Component	Minimum Requirements
Core	4-core processor, 2.5 GHz minimum per core 8-core processors are recommended for optimal performance
RAM	16 GB RAM or higher for optimal performance
Hard Drive	40 GB of free disk space

Software Requirements

The following software is required on any machine that will be set up for Advanced Visualization.

Table 3: Server Details

Software Name and Version	Where you can obtain it
Windows Server 2012 (64-bit) or	Microsoft
Windows Server 2016 (64-bit) or	
Windows Server 2019 (64-bit)	

Table 4: Browser Details

Browser	Notes
Google Chrome or	For recommended browser versions, refer to the TIBCO
Mozilla Firefox or	browser information.
Microsoft Edge	

Database Requirements

You must create a database before installing Advanced Visualization. Advanced Visualization supports the following relational databases.

- PostgreSQL
- Microsoft SQL Server
- Oracle

Table 5: Database Details

Database Provider	Requirements
Microsoft SQL Server	 For the database, use SQL Server authentication instead of Windows authentication. The user ID must have db_owner rights to the repository database. Set the database collation to case sensitive. Case-insensitive collation is not supported. For install, upgrade, and configuration tasks, grant db_datawriter, db_datareader, and db_ddladmin roles on the repository database and schema, to the account that is used by the Advanced Visualization install process to connect to the repository database and schema. For run-time tasks, grant db_datawriter and db_datareader roles on the repository database and schema. For run-time tasks, grant db_datawriter and db_datareader roles on the repository database and schema, to the account that is used by the Advanced Visualization to connect to the repository database and schema, to the account that is used by the Advanced Visualization to connect to the repository database and schema.
Oracle	 User CHAR semantics when creating a database for use with Advanced Visualization. Oracle database blocks (db_block_size) require 8K or higher. Set the maximum number of open cursors (open_cursors) to 500 or higher when all tables are created and inserted. Tablespace requirements depend on customer usage. Advanced Visualization requires case-sensitive collation. By default, for Oracle, the string comparisons are case sensitive. Use the NLS_COMP and NLS_SORT sort system parameters for comparison and sorting. The RDBMS user account privileges that are used by Advanced Visualization must have the ability to create tables, modify tables, execute queries, and insert and delete records.

Advanced Visualization Installation Steps

Before You Begin

Before you can run the Advanced Visualization installer, you must:

- Ensure that your system meets the system requirements.
- Ensure that you install Advanced Visualization on a different server from the one on which you have installed APM.
- Ensure that you have access to the Advanced Visualization installation package.

• Ensure that you can access the APM Server host URL from the server where you plan to install Advanced Visualization.

About This Task

Procedure

- 1. Log on as a user with administrative privileges to the server where you plan to install Advanced Visualization.
- 2. Access the APM distribution package and then navigate to the folder Setup\Advanced Visualization.
- 3. Run the file setup.exe.

The APM Advanced Visualization	n page appears.	
APM Advanced Visualization - Inst	allShield Wizard	\times
ی ا	Welcome to the InstallShield Wizard for APM Advanced Visualization	
	The InstallShield Wizard will install APM Advanced Visualization on your computer. To continue, click Next.	
	< Back Next > Cancel	

4. Select Next.

The License Agreement page appears.

APM Advanced Visualization - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	
END-USER LICENSE AGREEMENT IMPORTANT - READ CAREFULLY This program contains material that is proprietary and confidential to GE Digital LLC and/or its affiliates ("Licensor") and is protected by copyright law and international treaties. Use of this program is limited and restricted by the terms of your license agreement with Licensor. This program may not be copied or distributed except as specifically permitted in the license agreement. Any unauthorized use, reproduction or distribution of this program can result in severe civil or criminal penalties and will be prosecuted to the maximum extent possible. You may not alter, remove or destroy any copyright notice or confidential, proprietary, secret or other similar legends placed on or with this product.	~
I accept the terms of the license agreement I do not accept the terms of the license agreement InstallShield	
< Back Next > Canc	el

 Read the license agreement, and if you agree to the terms, select I accept the terms of the license agreement, and then select Next.

The **Choose Destination Location** page appears.

Note:

- By default, the Advanced Visualization software will be saved to C:\Meridium. If you want to change the location, select **Change...**, and then navigate to the location where you want to install the software.
- Ensure that the installation path does not contain any space characters.

•				
	ed Visualization - InstallShield Wi	zard	V	×
Choose De	estination Location			
Select fold	der where setup will install files.			
	Install APM Advanced Visualization	to:		
_	C:\Meridium			Change
 InstallShield –				
		< Back	Next >	Cancel

6. Select Next.

The APM Serv	ver URL page appears.			
APM Advance	ed Visualization - InstallShield	d Wizard		\times
APM Serve	r URL			No.
	ull URL to the APM Server. https://apmhost.meridium.com	n:222/Meridium		
APM URL	1			
InstallShield —		< Back	Next >	Cancel

- 7. In the **APM URL** box, enter the APM Server URL.
- 8. Select Next.

APM Advanced Visualization - InstallShield Wiz	zard	×
Setup Type Select the setup type that best suits your needs	i.	
What type of Database are you using?		
MS SQL		
○ Postgress		
Oracle		
InstallShield		
	< Back Next >	Cancel

9. Select your database provider and select **Next**. The **Database Server Login** page appears.

APM Advanced Visualization - InstallShield Wiz	zard		×
Database Server Login Database server requires login credentials to co	ontinue.		K
Specify the DB User Login and Password			
Login ID:			
Password:			
InstallShield ————————————————————————————————————	< Back	Next >	Cancel

10. In the **Login ID** box, enter your database user ID.

11. In the **Password** box, enter your database password.

The database information page appears.

12. Based on your database provider, enter the following credentials, and then select Next:

- MS SQL
 - Host: Enter the MS SQL Server host name.
 - Port: Enter the MS SQL Server port number.
 - Name: Enter the name for your MS SQL Server database.
- PostgreSQL
 - URL: Enter the Database Connection URL.
- Oracle
 - Host: Enter the Oracle database host name.
 - Port: Enter the Oracle database port number.
 - SID: Enter the system identifier for your Oracle database instance.
- 13.Select Next.

The Ready to Install the Program page appears.

APM Advanced Visualization - InstallShield Wizard	×
Ready to Install the Program The wizard is ready to begin installation.	Z
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. Cli exit the wizard.	ick Cancel to
InstallShield	
< <u>B</u> ack Install	Cancel

14.Select Install.

The **Setup Status** page appears displaying a progress bar. After the installation is complete, the **License Agreement** page of HyperStage appears.

perStage - InstallShield Wizard icense Agreement	
Please read the following license agreement carefully.	
Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at	^
http://www.apache.org/licenses/LICENSE-2.0	
Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either ex See the License for the specific language governing permissions an limitations under the License.	

15. Select **Yes** to accept the license agreement. The **Select Initial Settings** page appears.

Select the Program Folder				
Setup will add program icons to the selected Program Folder.				
Program Folder: Experitors Select DB Administantor Credentials		Hyperstage		
DB Administrator Name (default srvadmin)	i≹ sıvadmin)	srvadmin		
DB Administrator Password Re-Enter DB Administrator Password				
Select the TCP/IP ports to be	used by Hyperstage			
Enter Hyperstage Ports (two c	onsecutive ports will be used):	6432		
Port # 6432 will be used for co	onnection to Hyperstage, port # 6433	will be reserved for internal use.		
Select the Installation Root dire Please select a drive and dire	ectory	share and directory name for a net	work install	
Select the Installation Root dire Please select a drive and dire	ectory ctory name for a local install or network Root as a parent directory for the ibitH	share and directory name for a net	······	
Select the Installation Root dir Please select a drive and dire Setup will use the Installation I	ectory	share and directory name for a net	work install. Browse	
Select the Installation Root dir Please select a drive and dire Setup will use the Installation I Installation Root:	ectory ctory name for a local install or network Root as a parent directory for the bitH C:\Meridium\bi	share and directory name for a net	······	
Select the Installation Root dir Please select a drive and dree Setup will use the Installation I Installation Root: Hyperstage ServertMainHeapS	ectory ctory name for a local install or network Root as a parent directory for the bitH C:\Meridium\bi	share and directory name for a net- yperstagePG directory structure.	······	
Select the Installation Root dire Please select a drive and dree Setup will use the Installation I Installation Root: Hyperstage ServerMainHeapS Please enter size in MegaByte The ServerMainHeapSize sho	ectory ctory name for a local install or network Root as a parent directory for the bi/H C:/Meridium/bi ize Configuration (optional)	share and directory name for a net yperstagePG directory structure. ge engine. Physical Memory.Memory used by o	Browse	
Select the Installation Root dire Please select a drive and dree Setup will use the Installation I Installation Root: Hyperstage ServerMainHeapS Please enter size in MegaByte The ServerMainHeapSize sho Processes, including the Bulk Total Physical Memory: 1228 Cotaren Available Memory: 1228	ectory ctory name for a local install or network Root as a parent directory for the bitH C:\Meridium\bi ize Configuration (optional) is that will be reserved for the Hyperst- vald normally be set to 60-80% of Total Data Loader, should be deducted in t 7 56	share and directory name for a net yperstagePG directory structure. ge engine. Physical Memory.Memory used by o	Browse	
Select the Installation Root dir Please select a drive and dire Setup will use the Installation I Installation Root: Hyperstage ServerMainHeapS Please enter size in MegaByte The ServerMainHeapSize sho Processes, including the Buk Total Physical Memory: 1228	ectory ctory name for a local install or network Root as a parent directory for the ib/H [C:\Meridium\bi ize Configuration (optional) is that will be reserved for the Hyperst- suid novely be set to 60-80% of Total Dot Loader, should be deducted in to 7 56 erfMainHeapSize: 5574 MB	share and directory name for a net yperstagePG directory structure. ge engine. Physical Memory.Memory used by o	Browse	

16. Enter values as described in the following table, and then select Next.

Field	Description
Program Folder	Enter the installation folder name for HyperStage or use the default one.
DB Administrator Name	Enter a name for the database administrator. The default value is srvadmin.
DB Administrator Password	Enter a password for the database.
Enter Hyperstage Ports	Enter 6432.
Installation Root	Enter the path to the root directory of Advanced Visualization (for example, C:\Meridium\ibi).
Hyperstage ServerMainHeapSize	This field is calculated and populated automatically. We recommend minimum 5000MB.

The Review Selected Product Parameters window appears.

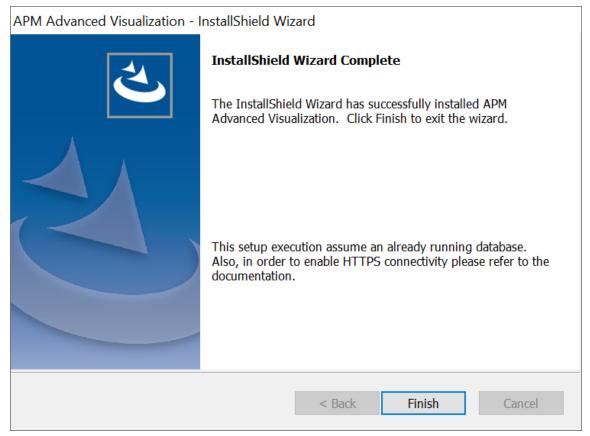
eview Selecter	l Product Param	eters		×
Please	e review selec	ted Installation	parameters before conti	nuing.
Version:1.0.	erstage DB Serve	đ		
DB Administ				
Hyperstage S	ierverMainHeapSi	ze: 5574 MB		
Installation D		ories: um\ibi\HyperstagePG idium\ibi\HyperstageF		
Disk Space I				
Required: Available:	1287 MB 25762 MB			
		< Back	Continue >	Cancel

17. Review the values that you have entered, and then select **Continue**. The **Setup Status** page appears, displaying a progress bar. After the installation is complete, the **InstallShield Wizard Complete** page appears.

HyperStage - InstallShield Wiza	rd
2.	InstallShield Wizard Complete
	Setup is finished successfully.
41	
1	Yes, I want to launch HyperStage Server now.
	Click Finish to complete Setup.
	K Back Finish Cancel

18. Clear the **Yes, I want to launch HyperStage Server now** check box, and then select **Finish**.

Installation for the remaining Advanced Visualization components is resumed. When the installation is complete, the **InstallShield Wizard Complete** page appears.



19. Select Finish.

The APM Advanced Visualization - InstallShield Wizard closes.

Results

The APM Advanced Visualization is successfully installed in your machine. To verify that the installation is successful, perform one of the following steps:

- Log in to http://localhost:8080/ibi_apps with the credentials admin and secret.
- Access Windows services to view the Advanced Visualization services.

Next Steps

Perform the post-installation steps.

Advanced Visualization Post-Installation Steps

Before You Begin

Install Advanced Visualization.

Procedure

1. On the machine on which you have installed APM, install IIS extensions. This step is required only if an error occurs when you try to access Advanced Visualization.

- a) Copy the files C:\Meridium\utils\install_iis_extensions.bat and C:\Meridium\utils\install_iis_extensions.ps1 from the Advanced Visualization machine to the APM host machine.
- b) Run the C:\Meridium\utils\install_iis_extensions.bat file as an administrator.

The required extensions are installed.

- 2. On the machine on which you have installed APM, set the reverse proxy.
 - a) Copy the file C:\Meridium\utils\setReverseProxyCmd.bat from the Advanced Visualization machine to the APM host machine.
 - b) Run Command Prompt as an administrator, and then run the following command:

```
setReverseProxyCmd.bat http://<Advanced Visualization host
URL>:<port number>
```

- 3. If you have set up a load balancer for multiple APM nodes:
 - a) Set the reverse proxy on all the APM machines by performing the previous step.
 - b) Run the following command to set the APM host as the load balanced URL on the Advanced Visualization server:

```
C:\Meridium\utils\setAPMHost.bat http://<APM host URL>
```

Next Steps

Access the Advanced Visualization page.

Uninstall Advanced Visualization

This procedure uninstalls APM Advanced Visualization after the initial installation.

Procedure

- 1. On the server machine where Advanced Visualization is installed, via the Control Panel, access the **Programs and Features** window.
- 2. In the grid, select **APM Advanced Visualization**, and then select **Uninstall**. The Advanced Visualization installer appears, displaying the **Preparing Setup** screen, which contains a progress bar. After completion, a message appears, asking if you want to remove the selected application and all of its features.
- Select Yes. The Setup Status screen appears, displaying a progress bar. After the application and all of its features are removed, the Uninstall Complete screen appears.
- 4. Select **Finish**. The APM Advanced Visualization installer closes.

Results

The APM Advanced Visualization is uninstalled from your machine.

Chapter 3

Upgrade Topics:

- iopics:
- Upgrade or Update
 Advanced Visualization to
 V5.2.2.0.0
- Upgrade from any version V5.2.0.0.0 through V5.2.1.0.0
- Upgrade from any version V5.1.0.0.0 through V5.1.4.0.0
- Upgrade from any version V5.0.1.0.0 through V5.0.7.0.0

Upgrade or Update Advanced Visualization to V5.2.2.0.0

The following table provides you the reference to procedures to upgrade from an earlier APM version to the latest version.

Upgrade from	Upgrade to	Procedure
V5.2.x	V5.2.2.0.0	Upgrade from any version V5.2.0.0.0 through V5.2.1.0.0 on page 18
V5.1.x	V5.2.2.0.0	Upgrade from any version V5.1.0.0.0 through V5.1.4.0.0 on page 18
V5.0.x	V5.2.2.0.0	Upgrade from any version V5.0.1.0.0 through V5.0.7.0.0 on page 18

Upgrade from any version V5.2.0.0.0 through V5.2.1.0.0

This module will be upgraded to V5.2.2.0.0 automatically when you upgrade the components in the basic APM system architecture. No additional steps are required.

If an error occurs, delete the following folders:

- C:\Program Files (x86)\InstallShield Installation Information\<UUID>
- C:\Meridium\temp

Upgrade from any version V5.1.0.0.0 through V5.1.4.0.0

This module will be upgraded to V5.2.2.0.0 automatically when you upgrade the components in the basic APM system architecture. No additional steps are required.

If an error occurs, delete the following folders:

- C:\Program Files (x86)\InstallShield Installation Information\<UUID>
- C:\Meridium\temp

Upgrade from any version V5.0.1.0.0 through V5.0.7.0.0

This module will be upgraded to V5.2.2.0.0 automatically when you upgrade the components in the basic APM system architecture. No additional steps are required.

If an error occurs, delete the following folders:

- C:\Program Files (x86)\InstallShield Installation Information\<UUID>
- C:\Meridium\temp

Chapter 4

Data Sources

Topics:

- About Advanced
 Visualization Data Sources
- Create a Data Source using an APM Query

About Advanced Visualization Data Sources

Advanced Visualization provides out of the box capabilities that enable you to visualize data for the following APM features and modules:

- Baseline entities and queries
- General recommendations

Each of these features is associated with a set of data sources in Advanced Visualization. The data sources contain a set of logically related fields that allow you to create and customize the visualizations based on the access privileges that you have for the specific feature.

Note: Although you have access to all the data sources, you must also have access to the required capabilities to create visualizations using these data sources. . You can visualize the data for the assets based on the security groups and roles assigned to your APM user account.

The following table provides high-level information about the data sources available for the supported modules or features:

Module/Feature	Data Source Description
General Recommendations	You can visualize data based on the general recommendations data available within APM.
APM Baseline Queries	You can visualize data using the baseline query views available in APM.
	Note:
	 The baseline query view displays the result of a query. As needed, you can create a curated view for the query result within your tenant.

Create a Data Source using an APM Query

Before You Begin

• Make sure that the baseline query or the custom query that you want to use to create a data source exists in the Catalog.

About This Task

This topic describes how to create a data source using a baseline query or a custom query, and configure the data source to enable the Advanced Visualization users to create charts or dashboards using the data source.

Procedure

- 1. Access the Advanced Visualization page.
- 2. Select **•**, and then select **Prepare and Manage Data**. The **SERVER** page appears.
- 3. Select **Get Data**. The **Get Data** window appears.

- 4. In the **CONNECT TO DATA** section, select **REST**, and then select **Select**. The **Configure Connections** window appears.
- 5. Select **APM_QUERY**, and then select **Select**. The **Create Synonym for REST** window appears.
- 6. In the Create Synonym options section, specify the following parameters:

Note: We recommend that you use the Query Helper to validate the query parameters and copy the field values to the corresponding fields in the **Create Synonym options** section. For more information on how to use the Query Helper to validate the query parameters, refer to the Retrieve Query Details of a APM Query using Query Helper on page 22 topic.

- a) In the Select REST Operation box, select Post.
- b) In the Service URL Extension box, enter: v2/catalog/query/path/execute

Note: If you use a APM version older than V4.5.0.0.0, enter: v1/catalog/query/path/ execute

- c) In the **Provide document sample** box, enter the request body parameters for the Insert (POST) request.
 - The following example provides a template for the request body:

```
{
"QueryPath":"query path",
"Page":0,
"PageSize":100,
"InputSingleParams":
{
    "parameter1":"value",
    "parameter2":"value2"
}
,
"InputMultiParams":
{
    "parameter1":["value1","value2"],
    "parameter2":["value1","value2"]
}
```

• The following example provides a sample request body for a query:

```
{
  "QueryPath": "Public\\Meridium\\Modules\\Generation Management
\\Queries\\NERC Queries\\NERC Event Report 07",
  "InputSingleParams": {
    "unitKey": "-1",
    "endDate": "2021-03-04T04:15:20.795",
    "startDate": "2021-03-04T04:15:20.795"
  },
  "InputMultiParams": null
}
```

- 7. In the **Synonym Field Name Processing Options** section, select the following check boxes:
 - Validate
 - Make Unique
- 8. In the Miscellaneous settings section, specify the following details:
 - a) In the **Application** box, navigate to the application directory that will contain the data source that you want to create.

b) In the **Synonym Name** box, enter a name for the data source that you want to create.

9. Select Add.

The data source is created in the Application Directory.

10. Select **Prepare and Manage Data** and access the Application Directory that contains the data source that you created, right-click the data source, and then select **Open** Alternatively, select **Visualize Data** to view the Chart Creation workflow

A page appears, displaying the **Table/Column** panel that contains a hierarchy of the query parameters.

11. Configure the following query parameters:

Important: We recommend that you use the Query Helper to validate the query parameters, and copy the parameter values from the **XDEFAULT** section of the **APM Query Helper** window to the **XDEFAULT** box of the **Properties** window for the corresponding parameters. For more information on the Query Helper, refer to the Retrieve Query Details of a APM Query using Query Helper on page 22 topic.

Query Parameter	Actions to be Performed
INPUTSINGLEPARAMS	a. Expand the object to view the parameters.
INPUTMULTIPARAMS	 b. Right-click a parameter, and then select Properties. The Properties window appears. c. In the Miscellaneous section, in the XDEFAULT box, enter the parameter value, and then select Apply.

12. In the **SERVER** page, select the **Save** button to save the parameters. The data source is configured.

Next Steps

• Create Charts using a Baseline or Custom Query on page 28

Retrieve Query Details of a APM Query using Query Helper

About This Task

When creating a data source using a baseline or custom query, you must have the following query details:

- Sample request body for the Insert (POST) operation
- Service URL extension
- Valid query path
- Valid query parameters and parameter values

Using Query Helper, you can retrieve the parameters of a query and validate the parameter details to ensure that correct data is available for creating the data source.

This task describes how to retrieve and validate the parameter details of a query to create a data source.

Procedure

- 1. Access the **Advanced Visualization** page.
- 2. Select **Query Helper**. The **APM Query Helper** window appears.

- In the Enter Query Catalog Path box, enter the query for which you want to fetch the parameter details, and then select Get Details. The following boxes are populated:
 - Service URL Extension
 - Sample Request Body
 - Query Path
 - <Parameter Name>

Note: To copy the data contained in each box, select **a**.

The following table describes the fields available in the **APM Query Helper** window:

Field	Description	Behaviour
Service URL Extension	Displays the following service URL extension by default: v2/catalog/query/path/ execute	You cannot modify data in this field.
	Note: If you use a APM version older than V4.5.0.0.0, the following service URL extension is displayed: v1/catalog/query/path/ execute.	
Sample Request Body	Displays the parameter details returned by the query. The following example provides a sample request body returned by a query:	 If the request body contains valid parameters and the parameter values, you cannot modify data in the field. If the request body does not contain valid parameter or parameter values, a message appears, asking you to update the parameter values. You must update the parameter values section to make the request body valid.
	<pre>{ "QueryPath": "Public\\Meridium\ \Modules\ \Generation Management\\Queries\ \NERC Queries\\NERC Event Report 07",</pre>	
	<pre>"InputSingleParams": { "unitKey": "-1", "endDate": "2021-03-04T04:15:20 .795", "startDate": "2021-03-04T04:15:20 .795" },</pre>	
	"InputMultiParams": null }	
	Note: For APM versions older than V4.5.0.0.0, both the parameter and parameter value appear as	

Field	Description	Behaviour
	parameter values for Id and Value parameters, respectively. The following example provides a sample request body returned by a query:	
	<pre>{ "QueryPath": "Baseline\\Meridium\ \Modules\\AHI\ \Queries\\Health Overview - Tiles", "InputSingleParams": [{ "Id": "unitKey", "Value": "-1" }] }</pre>	
Query Path	Displays the catalog path for the query.	You cannot modify data in this field.
<parameter name=""> Note: The field is displayed only if the query contains at least one parameter.</parameter>	Displays the parameter name and the parameter value contained in the sample request body. Note: If a parameter contains	If there is no valid parameter value for a given parameter, you can add the parameter value to make the request body valid.
	multiple values, only the first value is displayed in the <parameter Name> box.</parameter 	Note: When configuring data source with a APM version older than V4.5.0.0.0, you must manually update the default values for the parameters Id and Value in the corresponding XDEFAULT box of the Properties window.

Chapter 5

Migrating Data into HyperStage

• Migrate Data into HyperStage

Migrate Data into HyperStage

About This Task

This topic describes how to migrate Work History family data from a source family in APM into the HyperStage PostreSQL database. You can then create visualization on the data.

To migrate the data, an ETL tool named the Advanced Visualization Data Migrator tool is used.

Procedure

- 1. Access the Advanced Visualization page.
- 2. Select **•**, and then select **Prepare and Manage Data**. The **SERVER** page appears.
- 3. Under Applications, select meridium > work-history > flows.
- In the Application Directories section, right-click the flow whose data you want to migrate, and then select Submit. The job ID appears in the Submit section.
- In the File Panel section, right-click the flow that you have submitted, and then select Logs > Statistics.
 - The status of the flow appears (for example, pending, running, done).
- 6. Repeat the aforementioned steps for all the flows.

Next Steps

After all the flows are submitted and the status changes to Done, you can create visualizations on the data via HyperStage.

Chapter 6

Creating Visualizations

Topics:

- Create Charts using Data Sources
- Create Charts using Queries
- Configure Filters in Visualizations

Create Charts using Data Sources

Create Charts using Data Sources

About This Task

This topic describes how to create charts or dashboards using data sources in Advanced Visualization.

Procedure

- 1. Access the Advanced Visualization page.
- Select Visualize Data. The Advanced Visualization Designer page appears, displaying a designer canvas to create the chart.
- Select the Add Data button.
 The Select Data Source window appears, displaying the available data sources.
- 4. Select the data source using which you want to create the chart.

Note: You can access the baseline data sources and folders containing the baseline data sources by default. If you want to use a specific data source to create the chart, navigate to the data source in the corresponding folder. You can also change the view to access the data sources for a tenant.

The Dimensions and Variables associated with the data source appear in the **Advanced Visualization Designer** page.

5. As needed, design the chart, and then save the chart.

Note: For more information on how to create and publish charts, refer to the help documentation integrated with Advanced Visualization.

The chart is created.

Note:

For more information on creating charts, refer to KBA 000039563.

For training videos on how to create visualizations, refer to Getting Started With WebFOCUS 8207.

For detailed documentation on how to create visualization, refer to Visualizing Data in 8207.

Create Charts using Queries

Create Charts using a Baseline or Custom Query

Before You Begin

• Ensure that the query you want to use to create a chart has a data source.

Procedure

- 1. Access the **Advanced Visualization** page.
- In the Advanced Visualization home page, select Visualize Data. The Advanced Visualization Designer page appears, displaying a designer canvas to create the chart.
- Select the Add Data button.
 The Select Data Source window appears, displaying the available data sources.
- Navigate to the folder containing the data source associated with the query, and then select the data source.
 The Dimensions and Variables associated with the data source appear in the Advance

The Dimensions and Variables associated with the data source appear in the **Advanced Visualization Designer** page.

5. As needed, design the chart, and then save the chart.

Note:

- When designing a chart, we recommend that you use the fields in the **ROWS** section that appear when you expand the **RESPONSE** node and then expand the **ROWS** node.
- For more information on how to create and publish charts, refer to the help documentation integrated with Advanced Visualization.

The chart is created.

Related Tasks

Configure Filters on a Dashboard using a APM Query on page 31

Configure Filters in Visualizations

Configure Date Filters using Reporting Objects

Before You Begin

 Ensure that you are part of the Security Groups available for users within this module, to manage Advanced Visualization.
 For more information on the roles and groups available for the Advanced Visualization

For more information on the roles and groups available for the Advanced Visualization users, refer to the Advanced Visualization Security Groups on page 46 topic.

About This Task

When visualizing data in a dashboard, you can configure a custom date range as filter criteria to view data for the specified period. However, you can configure the date filters using a reporting object so that the date filters appear on the dashboard by default. For more information on the reporting objects, refer to the help integrated with Advanced Visualization.

This topic describes how to configure the date filters using a reporting object.

Procedure

- 1. Access the **Advanced Visualization** page.
- 2. Select Workspaces.

A hierarchy of the Advanced Visualization workspaces associated with your tenant appears.

3. In the hierarchy, navigate to the workspace folder to which you want to add the reporting object, and then select the **Action Bar** drop-down list box.

The **Data** section appears, displaying the option to create reporting objects.

4. Select Reporting Object.

A new tab appears, displaying a window that contains the data sources available for Advanced Visualization.

- Navigate to the folder containing the data source using which you want to create the reporting object, select the data source, and then select **Open**. The **Reporting Object** folder appears.
- 6. Right-click **Preprocessing Other**, and then select **Edit**. The **Preprocessing Other** window appears.
- 7. In the **Preprocessing Other** window, enter the following code:

```
SET DTSTANDARD = STANDARD
-DEFAULTH &STARTTIME='2019-04-01T00:28:03.000Z';
-DEFAULTH &ENDTIME='2020-03-31T00:28:03.000Z';
-DEFAULT &STARTDATE='April 01 2019';
-DEFAULT &ENDDATE='March 31 2020';
-PROMPT &STARTDATE.(|FORMAT=MDYY,REQUIRED=TRUE).Start
Date.QUOTEDSTRING;
-SET &STARTTIME = DATETRAN(&STARTDATE, '(YYMD)', '(-)', 'EN', 15,
'A10') | 'T00:00:00.000Z';
-TYPE &STARTTIME
-PROMPT &ENDDATE.(|FORMAT=MDYY,REQUIRED=TRUE).End Date.QUOTEDSTRING;
-SET &ENDTIME = DATETRAN(&ENDDATE, '(YYMD)', '(-)', 'EN', 15, 'A10')
| 'T23:59:59.999Z';
-TYPE &ENDTIME
```

- 8. Select the Save button.
- 9. Right-click **Where Statements**, and then select **New**. The **Create a filtering condition** window appears.
- 10.Based on the data source that you selected, create the WHERE clause as described in the following table:

Data Source	WHERE Clause
alerts_custom_business_view	EVENTSTARTDATE Greater than or equal to Simple Parameter (Name:STARTTIME)
	AND
	EVENTSTARTDATE Less than or equal to Simple Parameter (Name:ENDTIME)
cases_custom_business_view	CREATEDDATE Greater than or equal to Simple Parameter (Name:STARTTIME)
	AND
	CREATEDDATE Less than or equal to Simple Parameter (Name:ENDTIME)

11. Select the **Save** button to save the reporting object.

The reporting object is created and the date filters are configured.

Note: When you create a visualization using the reporting object and add the visualization to a dashboard, the default date range appears to filter data.

Configure Filters on a Dashboard using a APM Query

Before You Begin

• Make sure that the catalog query that you want to use for populating filter parameters is valid and returns the correct set of values.

About This Task

Advanced Visualization enables you to use a data source to populate filter parameters for filtering a dashboard created for another data source. The data sources are created using APM queries. You must use a query that retrieves a set of values from the APM database, which can be used as the filter parameters.

For example, you have created a dashboard to visualize work order details, such as work order ID, asset, work order status, and so on. Each of these parameters may have multiple values. If you want to filter the dashboard with work order types which are not a part of the fields list returned by visualization data source, you will need to create a filter using the work order type field available in a separate data source. You must populate the work order type filter with the values coming from this separate data source so that you can specify filter criteria. To populate the values, you will need this separate data source that can be associated with the first data source used for visualizing work order details.

This topic describes how to configure a filter and populate filter parameters using a data source created for a APM query.

Procedure

- 1. Access the Advanced Visualization page.
- 2. Perform the following steps to create and configure the data source for populating filter parameters in the filter:
 - a) Create a data source using the query that you want to use for populating filter parameters.
 - b) Access the Application Directory that contains the data source that you created, rightclick the data source, and then select **Open**.
 A page appears, displaying the **Table/Column** panel that contains a hierarchy of the query parameters.
 - c) In the **Table/Column** panel, expand the **RESPONSE** node, and then expand the **ROWS** node.
 - d) In the **ROWS** section, on each field, right-click the field, and then select **Properties**. The **Properties** window appears.
 - e) In the **General** section, in the **Type** drop-down list box, select Character (Fixed).
 - f) Select **Apply**.
- 3. Perform the following steps to configure the filter on the dashboard:
 - a) Access the Application Directory that contains the data source associated with the dashboard, right-click the data source, and then select **Open**.
 A page appears, displaying the **Table/Column** panel that contains a hierarchy of the query parameters.
 - b) On each query parameter, right-click the parameter, and then select **Properties**. The **Properties** window appears.

- c) In the General section, in the Type drop-down list box, select Character (Fixed).
- d) In the **Miscellaneous** section, in the **ACCEPT** drop-down list box, select SYNONYM.
- e) In the **Lookup Synonym** box, navigate to the data source that you created for populating filter parameters.
- f) In the Lookup Field box, enter the filter caption.
- g) Select Apply.
- h) Access the Advanced Visualization page.
- i) In the Advanced Visualization home page, select Visualize Data. The Advanced Visualization Designer page appears, displaying a designer canvas to create the chart.
- j) Select the Add Data button.
 The Select Data Source window appears, displaying the available data sources.
- k) Navigate to the folder containing the data source associated with the query, and then select the data source.

The Dimensions and Variables associated with the data source appear in the **Advanced Visualization Designer** page.

I) As needed, design the chart, and then save the chart.

Note: For more information on how to create and publish charts, refer to the help documentation integrated with Advanced Visualization.

The chart is created.

- m) Drag the query parameter that you want to use as a filter to the chart.
 - The filter is created and populated with the filter parameters. You can add the chart to a dashboard to filter data.

Navigating from Charts

- About Navigating from a ٠ Chart or Dashboard to the Corresponding APM Module
- About Configuring Drill-Downs using URLs
- Configure a Drill-Down for a Chart to Access Data in the **Corresponding Module**

About Navigating from a Chart or Dashboard to the Corresponding APM Module

Advanced Visualization enables you to navigate from a chart or dashboard to the corresponding feature or module within APM. You can create a chart or dashboard using a data source and configure drill-downs for the fields using the filter parameters associated with the data source. When the drill-downs are configured with the filter parameters, you can drill down the chart or dashboard to navigate to the corresponding feature or module, and access the data filtered by the configured filter parameters. For more information on different types of drill-downs and how to configure drill-downs for the charts and reports, refer to the help integrated with Advanced Visualization.

About Configuring Drill-Downs using URLs

You can use APM URLs to configure drill-downs for a visual element (for example, bar) of a chart for accessing data associated with the visual element in the corresponding module. For more information on the APM URLs and URL syntax, refer to the URLs help.

When configuring drill-downs, you can create the following types of URLs that are used to navigate to the specific pages or features of the corresponding module:

- URL with parameters: If the URL associated with the module contains a parameter, you must create a URL with the parameter to pass the parameter value from the chart to the corresponding module for accessing the associated data. If the URL uses dynamic parameters (for example, prompts), parameters with the same name are automatically created to pass the value when you select the visual element in the chart. Thus, you are navigated to the target page or feature of the module.
- URL without parameters: If a URL associated with the module does not contain a parameter, you must create a URL without any parameter value.

Configure a Drill-Down for a Chart to Access Data in the Corresponding Module

Note: This feature is not available in Legacy Predix APM.

Before You Begin

• Create a chart.

About This Task

This task describes how to configure a drill-down for a chart using a URL and navigate to the corresponding module within APM to access the associated data. For more information on different types of drill-downs and how to configure drill-downs for the charts and reports, refer to the help integrated with Advanced Visualization.

Procedure

1. Access the Advanced Visualization page.

- 2. Access the chart for which you want to configure the drill-down.
- Right-click the chart, and then select Edit. The Advanced Visualization Designer page appears, displaying the chart in the designer canvas.
- 4. In the Settings section, in the Vertical box, right-click the field for which you want to configure a drill-down, and then select Configure drill downs. The Configure Drill Downs for <Field Name> window appears.
- 5. In the **Configure Drill Downs for <Field Name>** window, perform the following steps to configure the drill-down:
 - a) In the **Type** section, select the **URL** option.
 - b) In the **URL** box, enter the URL for the page that you want to access when you select the visual element of the chart.

Tip: For more information on the URLs associated with a specific APM module, access the help documentation for the module, and then refer to the **<Module Name> URLs** topic.

- If the URL does not contain any parameter, select Apply.
- If the URL contains parameters (for example, {*entitykey*} and {*sectionname*} in the URL health/asset/{entitykey}/{sectionname}), perform the following steps:
 - i. In the **Parameters** section, select the **Add all target filters** button. A table appears, displaying the following columns:
 - Parameter Name
 - Type
 - Field/Value
 - ii. In the table, enter the values as follows:
 - In the **Parameter Name** box, enter the name of the parameter.
 - In the **Type** box, select **Field**.
 - In the **Field/Value** box, select a field value based on the parameter that you specified in the **Parameter Name** box.
 - iii. Select Apply.
- 6. Select the **Save** button to save the chart in your preferred workspace. The drill-down for the chart is configured.

Example: Access the Number of Health Indicators for an Asset from the Health Indicator Status by Asset Chart

This example provides the steps to configure drill-downs in the Health Indicator Status by Asset chart and view the number of health indicators in the **Health Summary** page.

- 1. Access the **Advanced Visualization** page.
- Select Visualize Data. The Advanced Visualization Designer page appears, displaying a designer canvas to create the chart.
- 3. Select the Add Data button.

The **Select Data Source** window appears, displaying the available data sources.

4. Navigate to the ahi folder, and then select the **health_overview_status_by_asset** data source.

The Dimensions and Variables associated with the data source appear in the **Advanced Visualization Designer** page.

- 5. In the Advanced Visualization Designer page, perform the following:
 - a. From the **Measures** section, drag the following measures to the **Vertical** box of the **Display** section:
 - Alert
 - No Status
 - Normal
 - Warning
 - Asset Key

Note: To hide the asset key, right-click the asset key and select **Hide**.

- b. From the **Dimensions** section, drag the following Asset ID measure to the **Horizontal** box of the **Display** section.
- In the Settings section, in the Vertical box, right-click an indicator status, and then select Configure drill downs. The Configure Drill Downs for <Health Indicator Status> window appears.
- 7. In the **Configure Drill Downs for <Health Indicator Status>** window, perform the following steps to configure the drill-down for the health indicator status:
 - a. In the **Type** section, select the **URL** option.
 - b. In the URL box, enter the URL in the following format: health/asset/{entitykey}/indicator, where {entitykey} denotes the asset in the asset hierarchy for which you want to view the health indicators.

Note: For more information on how to construct the URLs associated with Asset Health Manager, refer to AHM URLs.

- c. In the **Parameters** section, select the **Add all target filters** button. A table appears, displaying the following columns:
 - Parameter Name
 - Type
 - Field/Value
- d. In the table, enter the values as follows:
 - In the **Parameter Name** box, specify entitykey.
 - In the **Type** box, select **Field**.
 - In the Field/Value box, select HEALTH_OVERVIEW_STATUS_BY_ASSET.ROWS.ASSET_KEY.

Note: You must select the field value based on the parameter that you specified in the **Parameter Name** box.

- e. Select Apply.
- 8. Select the **Save** button to save the chart in your preferred workspace. The Health Indicator Status by Asset chart is created and saved in the workspace.
- 9. Access the Health Indicator Status by Asset chart.
- 10. Right-click the chart, select **Run...**, and then select **Run in new window**.

The new tab appears, displaying the chart.

11. Select the visual element (for example, bar) associated with the asset for which you want to view the number of health indicators.A new tab appears, displaying the number of health indicators for the selected asset in the **Health Summary** page.

8

Setting Dashboard as Home Dashboard

Topics:

• Set a Dashboard as the Home Dashboard

Set a Dashboard as the Home Dashboard

About This Task

You can access the home dashboard when you sign in to APM or select $\widehat{\mathbf{h}}$ in the main navigation bar. This topic describes how to set a dashboard created in Advanced Visualization as your home dashboard.

Procedure

- 1. Access the Advanced Visualization page.
- 2. Access the dashboard that you want to set as the home dashboard.
- 3. Right-click the dashboard, and then select **Run in new window**. A new window appears, displaying the dashboard.
- 4. Select **Assign as Home Dashboard**. The **Caution** window appears.
- 5. Select **Apply**. The dashboard is set as the home dashboard for APM.

Tip: To access the home dashboard, select $\widehat{\mathbf{h}}$ in the main navigation bar.

Exporting Dashboard

About Exporting Dashboard ٠

About Exporting Dashboard

Advanced Visualization enables you to export a dashboard to a PDF or PNG file. You must configure the settings to enable the **Export to File** button in the dashboard and the file format to which you want to export the dashboard.

Note: The following configuration options in the dashboard settings enable the **Export to File** button in the dashboard and the file format to which you want to export the dashboard:

- Show Export: Enables the **Export to File** button in the dashboard.
- PDF: Enables you to export the dashboard to a PDF file.
- Image: Enables you to export the dashboard to a PNG file.

Important: The **Export to File** button is enabled in a new dashboard based on the page settings for the dashboard. However, if you want to enable the button for an existing dashboard, you must access and save the dashboard in Advanced Visualization.

The following examples provide steps on how to export a dashboard (namely Inspection Management Overview Dashboard) to PDF and PNG files:

Example: Export the Inspection Management Overview Dashboard to a PDF File

- 1. Access the page settings for the Inspection Management Overview dashboard and ensure that the following check boxes are selected:
 - Show Export
 - PDF

Note: For more information on how to access the page settings for a dashboard, refer to the help documentation for the dashboard in Advanced Visualization.

- 2. Access the Inspection Management Overview dashboard.
- 3. Select the **Export to File** button, and then select **PDF**. The dashboard is exported to a PDF file.

Note: You can access the downloaded file in your local drive.

Example: Export the Inspection Management Overview Dashboard to a PNG File

- 1. Access the page settings for the Inspection Management Overview dashboard and ensure that the following check boxes are selected:
 - Show Export
 - Image

Note: For more information on how to access the page settings for a dashboard, refer to the help documentation for the dashboard in Advanced Visualization.

- 2. Access the Inspection Management Overview dashboard.
- 3. Select the Export to File button, and then select Image.
- The dashboard is exported to a PNG file.

Note: You can access the downloaded file in your local drive.

Baseline Dashboards

Topics:

• Baseline Dashboards

Baseline Dashboards

The APM Overview portal is available with some baseline dashboards as reference that you can readily use without making any changes. You can also customize the baseline dashboards as needed. This allows you to create custom dashboards without having to start from the beginning. The following baseline dashboards are available in the Meridium workspace:

- Asset Health Manager Overview
- Inspection Management Overview
- Production Loss Overview
- Risk Based Inspection Overview

Reference

Topics:

• General Reference

General Reference

Advanced Visualization Terms

The following terms and definitions apply to advanced visualization dashboard components.

Chart

An individual visualization of data using a data source.

Data Source

A repository that contains the data that can be visualized in advanced visualization in the form of charts or reports.

Page

A collection of charts that can be combined to create a view like a dashboard. These pages can be shared with other users or used as private dashboards for the users

Domain

The workspace to create visualizations, where the tenant can configure their own custom data sources. The data sources can be used to access the data and combine that data with the other data that the tenants have access to through the baseline domain that cannot be modified by the users.

Folders

A way to organize data in a user domain. This can be used to create various types of content and then saved in different folders that the users can access later.

Advanced Visualization Security Groups

The following table lists the baseline Security Groups available for users within this module, as well as the baseline Roles to which those Security Groups are assigned.

Table 6: Advanced Visualization Security Groups and Roles

Role	Group	Role Privileges
View Advanced Visualization	Everyone	Allows you to view the visualizations that have been created and which other users have shared.
Create Advanced Visualization	Create ADV	Allows you to create new visualizations based on the data sources that are available.
Manage Advanced Visualization	Manage ADV	Allows you to add new connections or modify existing data connections other than the baseline content that cannot be updated.

Log Files Collection

Procedure

1. Select the **Start** button on Windows, right-click **Command Prompt**, and then select **Run as** administrator.

The Command Prompt window appears.

- 2. Change the directory to the location where you want to save the zip archive with collected files; for example, to save the archive in the C:\Support folder, at the command prompt, enter cd C:\Support, and then press **Enter**.
- 3. At the command prompt, enter <Install_DIR>\utils\collect_logs.bat[number of days to look back], and then press Enter. For example, the <Install_DIR>\utils\collect_logs.bat 2 command creates logs-<current date>.zip in the current directory.

Start or Stop Advanced Visualization Services

Procedure

1. Select the **Start** button on Windows, right-click **Command Prompt**, and then select **Run as** administrator.

The Command Prompt window appears.

2. At the command prompt, enter <Install_DIR>\utils\<command>, and then press Enter.

Use a <command> from the following table, according to the required task.

<command/>	Task
stop_all	Stop all services.
start_all	Start all services.
restart_all	Stop and start all services.
stop_as	Stop Search, Report Caster, and Web Application.
start_as	Start Search, Report Caster, and Web Application.
stop_rs	Stop Reporting Server.
start_rs	Start Reporting Server.
stop_av	Stop Advanced Visualization UI and Advanced Visualization Microservice services.
start_av	Start Advanced Visualization UI and Advanced Visualization Microservice services.

Import Content

Procedure

1. Select the Start button on Windows, right-click Command Prompt, and then select Run as administrator.

The Command Prompt window appears.

2. At the command prompt, enter <Install_DIR>\utils\import_content.bat <IMPORT_FROM> <USER_NAME> <PASSWORD> <OVERWRITE>, and then press Enter.

Table 7: Parameters

Parameter	Description
IMPORT_FROM	An import zip file or folder with multiple zip files; must be a fully-qualified file name.
USER_NAME	A valid WebFOCUS Administrator ID; default value: admin
PASSWORD	A valid WebFOCUS Administrator ID password; default value: secret
OVERWRITE	Overwrite content resources flag. This is optional; default value: false

Set APM Host URL

Procedure

1. Select the **Start** button on Windows, right-click **Command Prompt**, and then select **Run as administrator**. Parameters: APMHostURL URL of the target APM host, for example: http:// apm-ibi.meridium.com

The Command Prompt window appears.

2. At the command prompt, enter <Install_DIR>\utils\setAPMHost.bat <APMHostURL>, and then press Enter.

Table 8: Parameters

Parameter	Description
APMHostURL	URL of the target APM host, for example, http://apm- ibi.meridium.com

Set Reverse Proxy on the APM Host Machine

Procedure

- 1. Copy script <Install_DIR>\utils\setReverseProxyCmd.bat from the Advanced Visualization machine to the APM host machine.
- 2. Select the **Start** button on Windows, right-click **Command Prompt**, and then select **Run as** administrator.

The Command Prompt window appears.

3. At the command prompt, enter setReverseProxyCmd.bat <AVHostURL>, and then press
Enter.

Table 9: Parameters

Parameter	Description
AVHostURL	URL of the target Advanced Visualization host, for example, https://apm-ibi-av.meridium.com:8443.

Install IIS Extension on the APM Host Machine

Procedure

- Copy files <Install_DIR>\utils\install_iis_extensions.bat and <Install_DIR> \utils\install_iis_extensions.ps1 from the Advanced Visualization machine to the APM host machine.
- 2. Run the script using one of these methods:
 - a) **Option 1:** Run install_iis_extensions.bat as administrator to install those two extensions
 - b) Option 2: Select the Start button on Windows, right-click Command Prompt, and then select Run as administrator.
 - The Command Prompt window appears.
 - c) At the command prompt, enter <*Install_DIR*>\utils \install iis extensions.bat and then press Enter.

Note: If you do not have internet access, download the following files separately, drop them in the utils folder (in the server), and rerun the script (as administrator):

- Application request routing extensions (https://www.iis.net/downloads/microsoft/ application-request-routing) (https://download.microsoft.com/download/E/9/8/ E9849D6A-020E-47E4-9FD0-A023E99B54EB/requestRouter_amd64.msi)
- URL rewrite extension (https://www.iis.net/downloads/microsoft/url-rewrite) (https:// download.microsoft.com/download/1/2/8/128E2E22-C1B9-44A4-BE2A-5859ED1D4592/rewrite_amd64_en-US.msi)