

Lab 14: Working with the Dynamic Template Designer

In this lab, you use the Dynamic Template Designer to create and modify a Dynamic templates.

Lab Exercises


This lab includes the following exercises:

- [Exercise A: Modifying an Out-of-the-Box Dynamic Template](#)
- [Exercise B: Creating a Dynamic Template](#)
- [Exercise C: Configuring a Bar Chart Dynamic Template](#)
- [Exercise D: Configuring a Pie Chart Dynamic Template](#)

⚠ It is recommended to use **Google Chrome** to perform the lab exercises. After launching the lab, zoom out the lab browser window to 80% to fit the APTARE Portal interface and view all the tabs within the window.

Exercise A: Modifying an Out-of-the-Box Dynamic Template

In this exercise, you modify an existing Dynamic Template.

- ☐ 1. Sign in to the  **console** system using the credentials provided below.

Username:  **EXAMPLE\Administrator**

Password:  **P@ssw0rd**

- ☐ 2. Locate and double-click the **Aptare Portal** shortcut, located on the desktop of the **console.example.com** system, to launch the **APTARE IT Analytics Portal**.
- ☐ 3. When the **APTARE IT Analytics Portal** login page is displayed, login using the below credentials.

Username  **admin@example.com**

Password  **P@ssw0rd**

- ☐ 4. In the **APTARE IT Analytics Portal**, navigate to **Reports**.
- ☐ 5. On the **Reports** page, click **Backup Manager > Billing and Usage Reports** located in the **Reports Navigation Panel**. The available reports are displayed in the **Reports** view panel.
- ☐ 6. In the **Reports** view panel, select the **Server Consumption Summary** report and click **Customize** as illustrated in the following figure.

Veritas APTARE IT Analytics™ Inventory Reports

Search...

Reports

Home

- My Shared
- My Reports
- Alerts
- Solutions
- System Administration Reports
- Capacity Manager
- File Analytics
- Virtualization Manager
 - Administration Reports
 - Forecast & Planning
 - Performance Reports
 - Storage Capacity & Utilization
- Fabric Manager
- Backup Manager
 - Administration Reports
 - Backup Policies
 - Billing and Usage Reports**
 - Forecasting & Capacity Planning
 - Management Reports

Shared with Me

Billing and Usage Reports

Run Copy Customize

Name	Description	Type	Reports	Template Name
Billing & Chargeback Summary	Displays a table of usage and billing details by host.	Template		
Server Consumption Summary	View a table of consumption details by server. If you a...	Dynamic Temp...		

Server Consumption Summary

By default, the report lists clients in descending order, by total disk backup, which is the total disk space consumed by the backup.

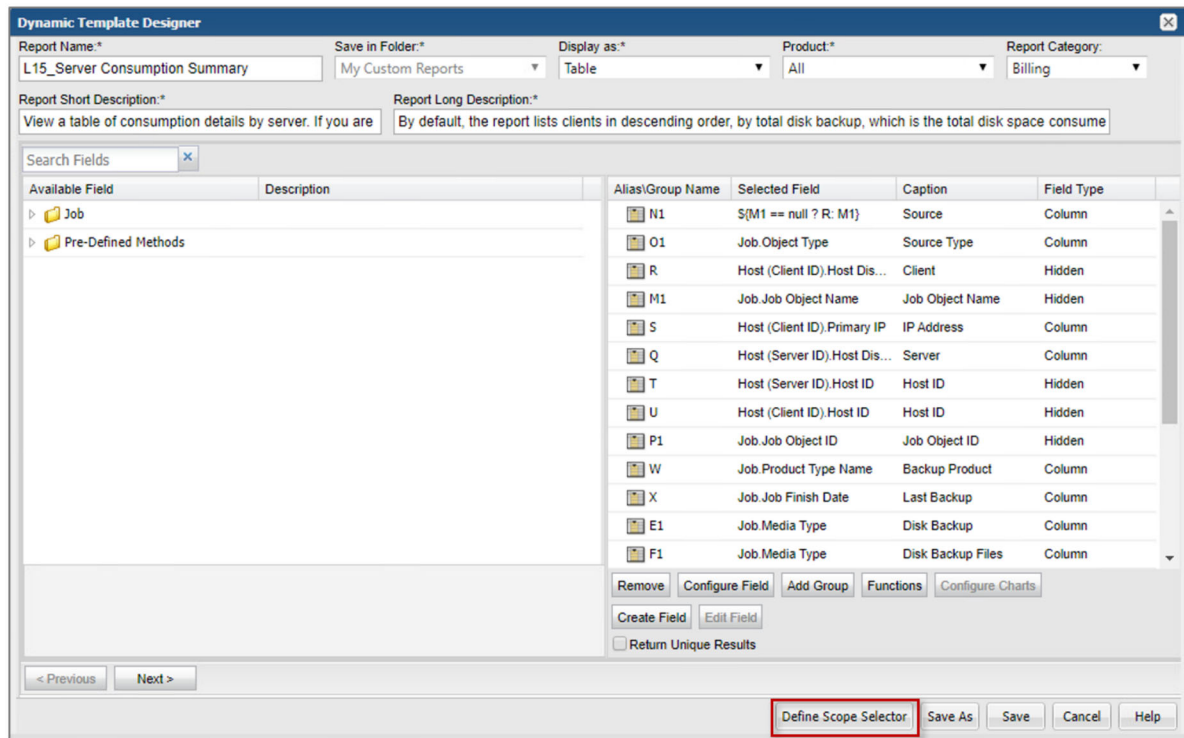
The **Customize** option is only available when a report of type **Dynamic Template** is selected.

By default, the **Server Consumption Summary** report lists clients in descending order, by total disk backup, which is the total disk space consumed by the backup.


- ☐ 7. In the **Dynamic Template Designer** dialog box that is displayed, click **Save As** without making any changes. The **Save** dialog box is displayed.
- ☐ 8. In the **Save** dialog box, enter **L15_Server Consumption Summary** in the **Report Name** field and verify that **My Custom Reports** is selected in the **Save in Menu Group** drop-down list.
- ☐ 9. In the **Save** dialog box, click **OK** to save the report.

You are returned to the **Dynamic Template Designer** dialog box.


- ☐ 10. Click **Cancel** to close the **Dynamic Template Designer** dialog box.
- ☐ 11. On the **Reports** page, click **My Custom Reports** located in the **Reports Navigation Panel**. The available reports are displayed in the **Reports** view panel.
- ☐ 12. In the **Reports** view panel, double-click the **L15_Server Consumption Summary** report. The **L15_Server Consumption Summary Scope Selector** dialog box is displayed.
- ☐ 13. Note the options that are available in the **L15_Server Consumption Summary Scope Selector** dialog box and click **Cancel** to close the **L15_Server Consumption Summary Scope Selector** dialog box.
- ☐ 14. In the **Reports** view panel, select the **L15_Server Consumption Summary** report and click **Customize**. The **Dynamic Template Designer** dialog box is displayed.
- ☐ 15. In the **Dynamic Template Designer** dialog box, click **Define Scope Selector** as illustrated in the following figure.



- ☐ 16. In the **Scope Selector Components** dialog box that is displayed, deselect the **Event Type** and the **Only Parent/Child Jobs** components.
- ☐ 17. In the **Scope Selector Components** dialog box, select the **Job Status** and the **Job Type Detail** components and click **OK** to return to the **Dynamic Template Designer** dialog box.
- ☐ 18. In the **Dynamic Template Designer** dialog box, click **Save** to save the template and return to the **Reports** page.
- ☐ 19. In the **Reports** view panel, double-click the **L15_Server Consumption Summary** report. The **L15_Server Consumption Summary Scope Selector** dialog box is displayed.
- ☐ 20. In the **L15_Server Consumption Summary Scope Selector** dialog box, note that the **Job status** component has been added and can be used to view only **Successful**, **Warning**, **Successful or Warning**, and **Failed** events. Also note the **Advanced** tab is also available.
- ☐ 21. Click **Advanced**, the **Advanced Options** dialog box is displayed.
- ☐ 22. In the **Advanced Options** dialog box, note that the **Job types** component is available and can be used to view only **Full Backup** jobs performed by **Veritas NetBackup** servers.
- ☐ 23. In the **Advanced Options** dialog box, click **Cancel** to return to the **L15_Server Consumption Summary Scope Selector** dialog box.
- ☐ 24. **L15_Server Consumption Summary Scope Selector** dialog box, click **Cancel** to return to the **Reports** page.
- ☐ 25. In the **Reports** view panel, select the **L15_Server Consumption Summary** report and click **Customize**. The **Dynamic Template Designer** dialog box is displayed.
- ☐ 26. In the **Dynamic Template Designer** dialog box, select and remove the **Source Type**, **Disk Backup Files**, **Tape Backup Files**, **Nbr of Files**, **Summary Status** columns.


 To remove a column select the column and click **Remove**.

- ☐ 27. After removing the above columns, rename the **Disk Backup** and the **Tape Backup** column to **Disk Backup Size** and **Tape Backup Size** respectively.

 To rename a column, select the column, click **Configure Field**, and change the **Field Label**.

- ☐ 28. In the **Dynamic Template Designer** dialog box, select and hide the **Job Object Name**, **Host ID**, **Job Object ID**, **Job ID**, and **Kilobytes** columns.

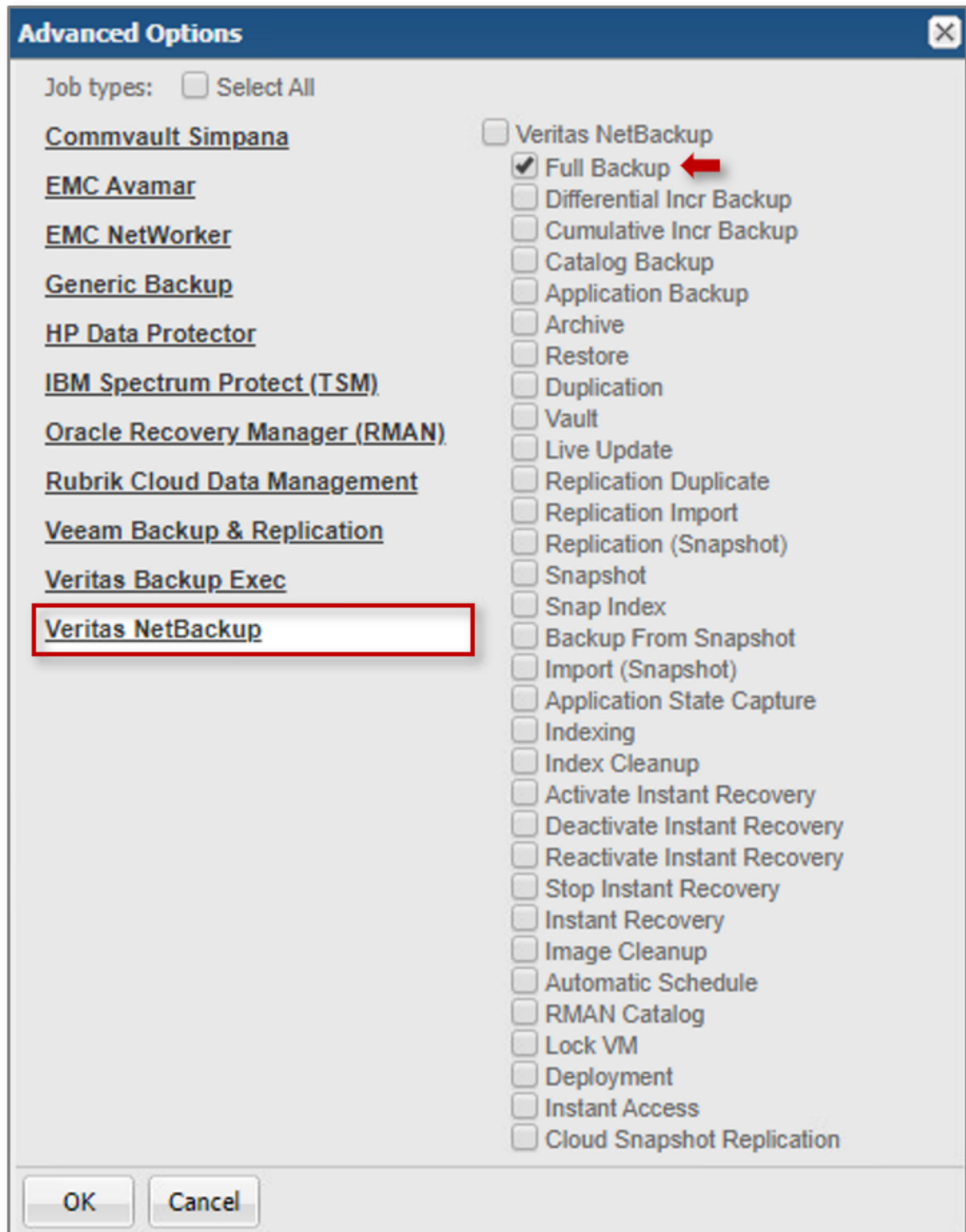
 To hide a column, select the column, click **Configure Field**, and select **Hidden** in the **Type** drop-down list.

 Deleting all the desired columns might not be possible as other columns might depend on the column being deleted. In such scenarios, the column can be hidden from the report if they are not required.

- ☐ 29. In the **Dynamic Template Designer** dialog box, click **Save** to save the template.

You are returned to the Reports page.

- ☐ 30. In the **Reports** view panel, double-click the **L15_Server Consumption Summary** report. The **L15_Server Consumption Summary Scope Selector** dialog box is displayed.
- ☐ 31. In the **L15_Server Consumption Summary Scope Selector** dialog box, select **Failed Events** in the **Job status** drop-down list and click **Advanced**.
- ☐ 32. In the **Advanced Options** dialog box that is displayed, click **Veritas NetBackup** and then select **Full Backup** as illustrated in the figure below.



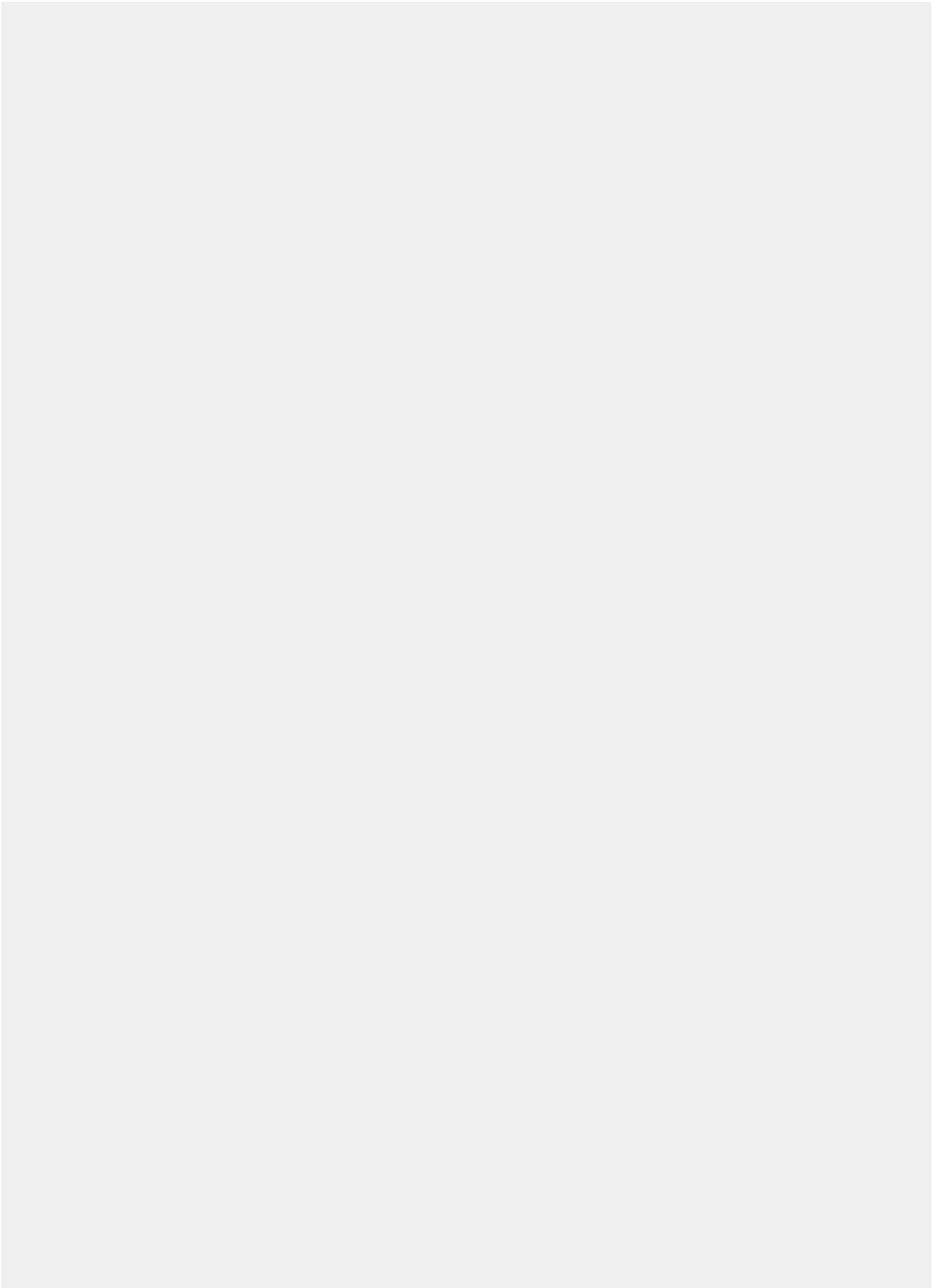
- ☐ 33. In the **Advanced Options** dialog box, click OK to return to the **L15_Server Consumption Summary Scope Selector** dialog box.
- ☐ 34. In the **L15_Server Consumption Summary Scope Selector** dialog box, click **Generate** without making any other changes to generate the report.

The contents of the L15_Server Consumption Summary report are displayed in a new tab.

The **L15_Server Consumption Summary** report now displays all **Veritas NetBackup** clients that don't have a successful full backup.

- ☐ 35. Close the **L15_Server Consumption Summary** tab.

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Exercise B: Creating a Dynamic Template

In this exercise, you create a new Dynamic Template using the Dynamic Template Designer.

Selecting an Enterprise Object


- ☐ 1. On the **Reports** page, right-click **My Reports** located in the **Reports Navigation Panel** and click **New** in the resulting menu to create a new folder.
- ☐ 2. Enter **APT106ADM_L15** as the folder name and press **Enter**.

The new folder, **APT106ADM_L15** is now displayed in the **Reports Navigation Panel** under the **My Reports** folder.

- ☐ 3. In the **Reports Navigation Panel**, right-click the **APT106ADM_L15** folder and in the resulting menu select **New Dynamic Template**.
- ☐ 4. In the **Dynamic Template Designer** dialog box that is displayed, select **Storage Array** and click **OK**. The **Dynamic Template Designer** dialog box is displayed.


Configuring General Dynamic Template Designer Components

- ☐ 5. In the **Dynamic Template Designer** dialog box, enter **APT106ADM_Array_Capacity** in the **Report Name** field and verify that **APT106ADM_L15** is selected in the **Save in Folder** drop-down list.
- ☐ 6. Select **Table** in the **Display as** drop-down list and **NetApp** in the **Product** drop-down list.

-  The Dynamic Template Designer can be used to create two different versions, starting with the same template:
- **Heterogeneous:** The scope selector and fields in the template are designed to select data across multiple vendor products for an enterprise object, such as EMC Symmetrix, Hitachi Data Systems, and IBM SVC arrays.
 - **Homogeneous:** The scope selector and fields in the template are designed to select data for one specific vendor product, such as **NetApp** arrays.

- ☐ 7. Select **Capacity** in the **Report Category** drop-down list and enter **List allocated and available capacity of NetApp Arrays** in the **Report Short Description** and in the **Report Long Description** fields.


-  If a **Report Category** is not selected, report templates are displayed in the **Inventory** under the heading **Uncategorized Report Templates**.


-  The **Report Short Description** will appear in search results, enabling users to determine the intent of the report template and saved reports.

Adding Fields and Methods to a Dynamic Template



8. In the **Dynamic Template Designer** dialog box, locate and double-click the **Array Name**, **Array Type**, **Config Available**, **Config Allocated**, and **Config Total** fields to include it in the template.

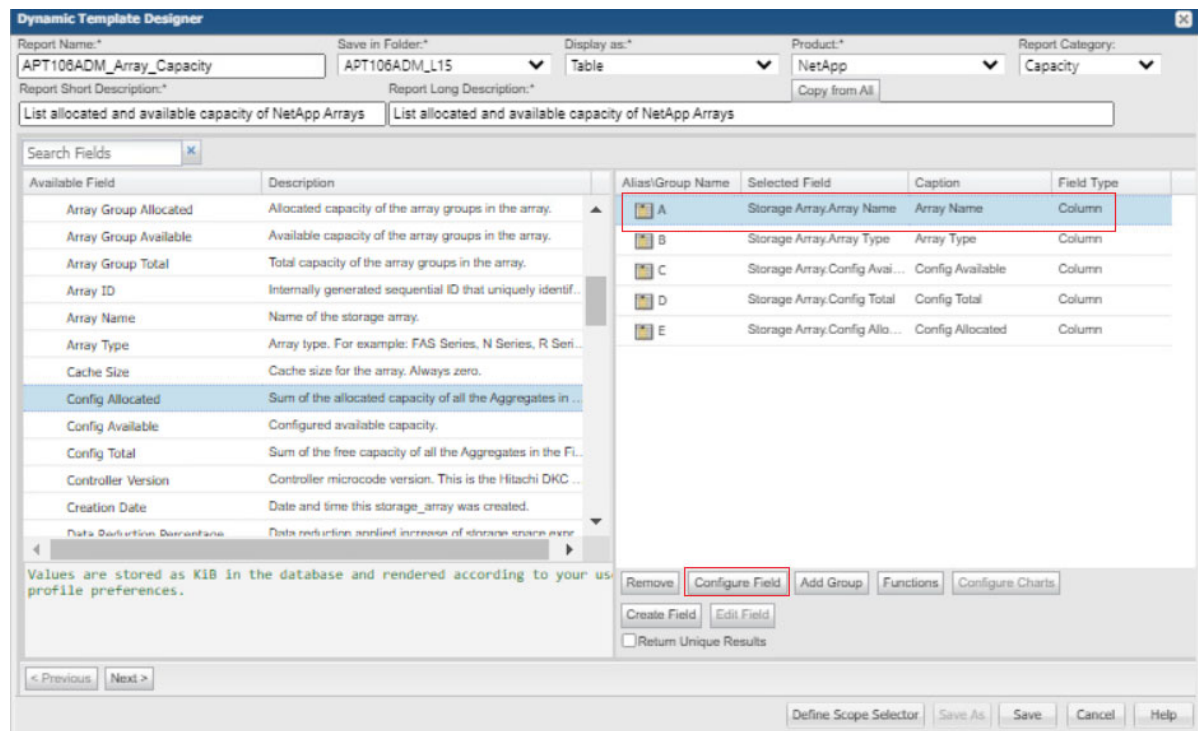
 To enable easier manipulation of fields in the **Dynamic Template Designer**, a simpler name is assigned when a field is dragged into the Selected Fields panel in the Report Designer. This name, typically a single alpha character, can be used to perform operations, such as mathematical calculations, with other fields.

 Note that as you add and remove fields from the selected list, the alphabetic sequence for the alias names is not retained. That is, when a field is removed, its alias name will not be reused when you add fields to the selected list.

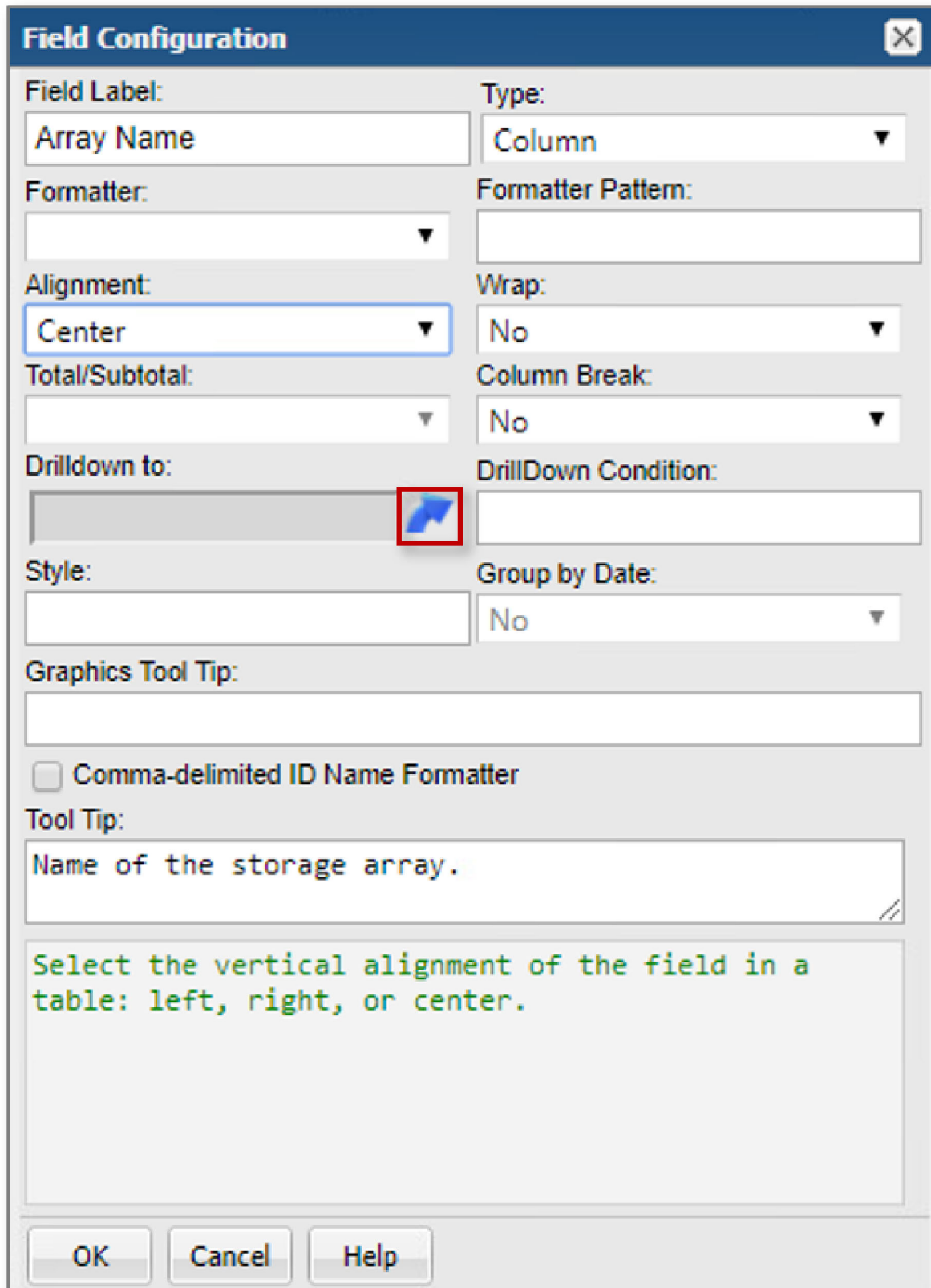
- ☐ 9. In the **Dynamic Template Designer** window, also include the **# Aggregates**, **# Volumes**, and **# CIFS Shares** fields. These fields are located in the **Storage Array > NetApp Storage System** folder.

Dynamic Template Field Configuration

- ☐ 10. In the **Dynamic Template Designer** window, select the **Storage Array.Array Name** field and click **Configure Field** as illustrated in the figure below.



- ☐ 11. In the **Field Configuration** dialog box that is displayed, select **Center** in the **Alignment** drop-down list and click the **Drilldown to** icon as illustrated in the figure below.


The image shows a 'Field Configuration' dialog box with a blue header bar and a close button in the top right. The dialog is divided into two columns. The left column contains: 'Field Label:' with a text box containing 'Array Name'; 'Formatter:' with a dropdown arrow; 'Alignment:' with a dropdown menu showing 'Center'; 'Total/Subtotal:' with a dropdown arrow; 'Drilldown to:' with a list box containing a blue arrow icon (highlighted with a red square); 'Style:' with a text box; and 'Graphics Tool Tip:' with a text box. The right column contains: 'Type:' with a dropdown menu showing 'Column'; 'Formatter Pattern:' with a text box; 'Wrap:' with a dropdown menu showing 'No'; 'Column Break:' with a dropdown menu showing 'No'; 'DrillDown Condition:' with a text box; and 'Group by Date:' with a dropdown menu showing 'No'. At the bottom, there are three buttons: 'OK', 'Cancel', and 'Help'. Below the 'Drilldown to:' list box, there is a checkbox for 'Comma-delimited ID Name Formatter' and a 'Tool Tip:' section with a text box containing 'Name of the storage array.' and a larger text area containing the text: 'Select the vertical alignment of the field in a table: left, right, or center.'

The **Drilldown Configuration** window is displayed and lists the reports that can be selected as a target for the drilldown.


- ☐ 12. In the **Drilldown Configuration** window, select the **Array Details** report and click **OK**.

You are returned to the **Field Configuration** dialog box, note that **Array Details** is listed in the **Drilldown to** field.


- ☐ 13. In the **Field Configuration** dialog box, click **OK** to save the changes.

 A new Field (Storage System ID) of Type Hidden is automatically included in the template. This field will not be displayed in the report, but is required to access the necessary details to link to the sub-report template. There will be cases where the UI will automatically add hidden fields to the report template, to ensure satisfactory performance.

- ☐ 14. In the **Dynamic Template Designer** window, select the **Storage Array.Config Available** field and click **Configure Field**.
- ☐ 15. In the **Field Configuration** dialog box that is displayed, change the **Field Label** to **Available Capacity**.
- ☐ 16. In the **Field Configuration** dialog box, select **Unit Converter** in the **Formatter** drop-down list and enter **KB::GB** in the **Formatter Pattern** field.

 The **Unit Converter** determines the value to be used when converting from one unit to another, for example, from **KB** to **GB**. The "division by" value is determined from the user's profile settings, either **1000** or **1024**.

- ☐ 17. Select **Center** in the **Alignment** drop-down list and enter **Sum of available capacity of all the Aggregates in the NetApp Filer** in the **Graphics Tool Tip** field.

 The description specified in the **Graphics Tool Tip** field is displayed when a user hovers the mouse over a value or an image in a report.

- ☐ 18. In the **Dynamic Template Designer** window, select the **Storage Array.Config Allocated** field and click **Configure Field**.
- ☐ 19. In the **Field Configuration** dialog box that is displayed, change the **Field Label** to **Allocated Capacity**.
- ☐ 20. In the **Field Configuration** dialog box, select **Unit Converter** in the **Formatter** drop-down list and enter **KB::GB** in the **Formatter Pattern** field.
- ☐ 21. Select **Center** in the **Alignment** drop-down list and enter **Sum of allocated capacity of all the Aggregates in the NetApp Filer** in the **Graphics Tool Tip** field.
- ☐ 22. In the **Field Configuration** dialog box, click **OK** to save the changes.
- ☐ 23. In the **Dynamic Template Designer** window, select the **Storage Array.Config Total** field and click **Configure Field**.
- ☐ 24. In the **Field Configuration** dialog box that is displayed, change the **Field Label** to **Total Capacity**.
- ☐ 25. In the **Field Configuration** dialog box, select **Unit Converter** in the **Formatter** drop-down list and enter **KB::GB** in the **Formatter Pattern** field.
- ☐ 26. Select **Center** in the **Alignment** drop-down list and enter **Total capacity of all the Aggregates in the NetApp Filer** in the **Graphics Tool Tip** field.
- ☐ 27. In the **Field Configuration** dialog box, click **OK** to save the changes.
- ☐

28. In the **Dynamic Template Designer** window, select the **NetApp Storage System.# Aggregates** field and click **Configure Field**.

- ☐ 29. In the **Field Configuration** dialog box, select **Center** in the **Alignment** drop-down list and click the **Drilldown to** icon.
- ☐ 30. In the **Drilldown Configuration** window, select the **Custom Drilldown** and enter the following parameter in the parameters field.

templateInstanceId=25700&arrayId=\${row['K']}&arrayIds=\${row['K']}&ignoreParent=true

The figure below illustrates the above step.

Drilldown Configuration

Drilldown to:

Report	Menu Group	Has Filter	Has Aggregation
Array Details		No	No
Custom Drilldown		No	No

Parameters:

```
templateInstanceId=25700&arrayId=${row['K']}&arrayIds=${row['K']}&ignoreParent=true
```

OK Cancel Help

To identify the **systemName**, **templateName**, or **templateInstanceId** of an existing report template, generate that report and in the active browser window type: **Ctrl-Alt-T**

In this example, we are associating the **NetApp Aggregate Summary** report which has a **templateInstanceId** of **25700** to the data in the **# Aggregates** field in our template.

The parameters **arrayId** and **arrayIds** allows us to fetch data only for a particular Filer from the **NetApp Aggregate Summary** report. In our template, the letter **K** is the alias for the **Storage System ID** field.

- ☐ 31. In the **Drilldown Configuration** window, click **OK** to return to the **Field Configuration** dialog box.
- ☐ 32. In the **Field Configuration** dialog box, enter **`${ row['C'] != '0' }`** in the **DrillDown Condition** field and click **OK** to save the changes.

 In the above step, we are adding a **DrillDown Condition** to disable the **DrillDown** link if no data is available for the **# Aggregate** field. In our template, the letter **C** is the alias for the **# Aggregates** field.

- ☐ 33. In the **Dynamic Template Designer** window, select the **NetApp Storage System.# Volumes** field and click **Configure Field**.
- ☐ 34. In the **Field Configuration** dialog box that is displayed, select **Numeric** in the **Formatter** and **Center** in the **Alignment** drop-down list.
- ☐ 35. Click the **Drilldown to** icon. The **Drilldown Configuration** window is displayed.
- ☐ 36. In the **Drilldown Configuration** window, select the **Custom Drilldown** and enter the following parameter in the parameters field.

templateInstanceId=25720&arrayId=\${row['K']}&arrayIds=\${row['K']}&ignoreParent=true

In this example, we are associating the **NetApp Volume Summary** report which has a **templateInstanceId** of **25720** to the data in the **# Volumes** field in our template.

The parameters **arrayId** and **arrayIds** allows us to fetch data only for a particular Filer from the **NetApp Volume Summary** report. In our template, the letter **K** is the alias for the **Storage System ID** field.

- ☐ 37. In the **Drilldown Configuration** window, click **OK** to return to the **Field Configuration** dialog box.
- ☐ 38. In the **Field Configuration** dialog box, enter **`${ row['D'] != '0' }`** in the **DrillDown Condition** field and click **OK** to save the changes.

 In the above step, we are adding a **DrillDown Condition** to disable the **DrillDown** link if no data is available for the **# Volumes** field. In our template, the letter **D** is the alias for the **# Volumes** field.

- ☐ 39. In the **Dynamic Template Designer** window, select the **NetApp Storage System.# CIFS Shares** field and click **Configure Field**.
- ☐ 40. In the **Field Configuration** dialog box that is displayed, select **Numeric** in the **Formatter** and **Center** in the **Alignment** drop-down list.
- ☐ 41. Click the **Drilldown to** icon. The **Drilldown Configuration** window is displayed.
- ☐ 42. In the **Drilldown Configuration** window, select the **Custom Drilldown** and enter the following parameter in the parameters field.

templateInstanceId=25760&arrayId=\${row['K']}&arrayIds=\${row['K']}&ignoreParent=true

In this example, we are associating the **NetApp CIFS Summary** report which has a **templateInstanceId** of **25760** to the data in the **# CIFS Shares** field in our template.

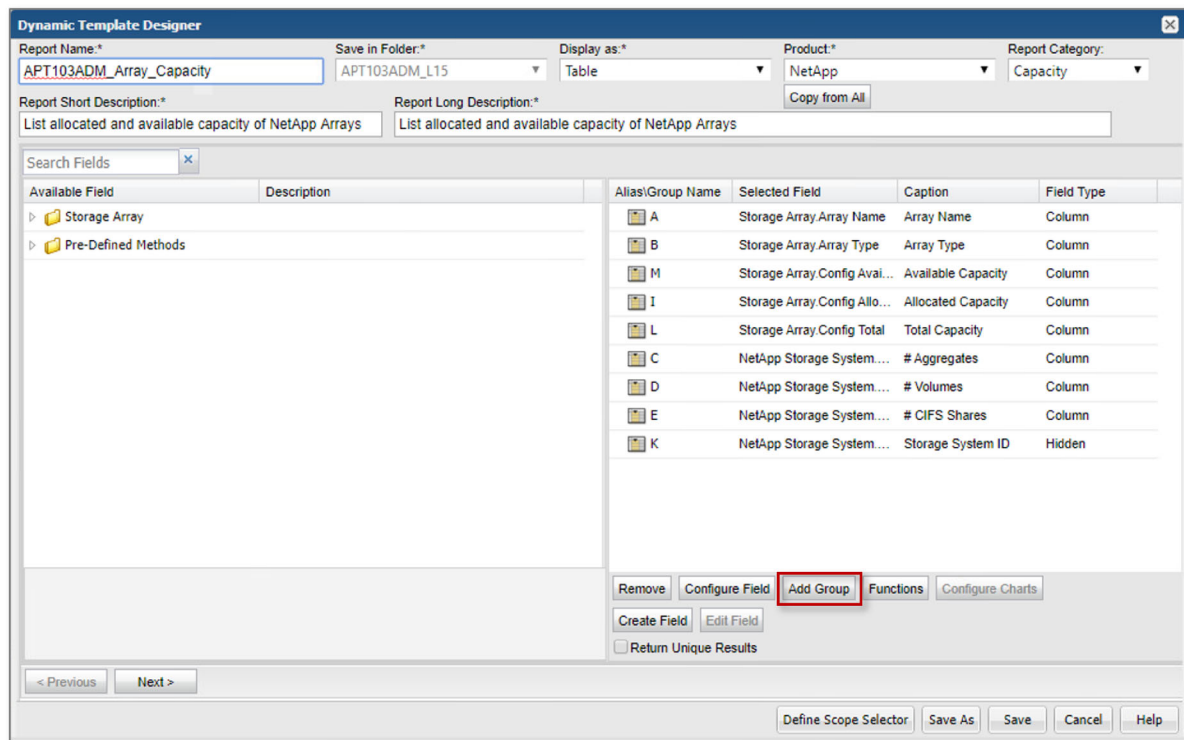
The parameters **arrayId** and **arrayIds** allows us to fetch data only for a particular Filer from the **NetApp Volume Summary** report. In our template, the letter **K** is the alias for the **Storage System ID** field.

- ☐ 43. In the **Drilldown Configuration** window, click **OK** to return to the **Field Configuration** dialog box.
- ☐ 44. In the **Field Configuration** dialog box, enter **\${ row['E'] != '0' }** in the **DrillDown Condition** field and click **OK** to save the changes.


 In the above step, we are adding a **DrillDown Condition** to disable the **DrillDown** link if no data is available for the **# CIFS Shares** field. In our template, the letter **E** is the alias for the **# CIFS Shares** field.

Using Groups in Dynamic Templates

- ☐ 45. In the **Dynamic Template Designer** window, click **Add Group** as illustrated in the figure below.




- ☐ 46. In the **Group** dialog box that is displayed, enter **Array Details** in the **Group Name** and **Group Title** fields.

 The group title becomes the table column heading and the field captions become the subheadings. In most cases, a group will have a title, although there may be cases where a single column of data requires no grouping. Therefore, **Group Title** is an optional setting.

- ☐ 47. In the **Group** dialog box, click **OK** to return to the **Dynamic Template Designer** window.

- ☐ 48. In the **Dynamic Template Designer** window, click **Add Group** to add another group.
- ☐ 49. In the **Group** dialog box that is displayed, enter **Capacity Details** in the **Group Name** and **Group Title** fields.
- ☐ 50. In the **Group** dialog box, click **OK** to return to the **Dynamic Template Designer** window.
- ☐ 51. In the **Dynamic Template Designer** window, click **Add Group** to a third group.
- ☐ 52. In the **Group** dialog box that is displayed, enter **Storage System Details** in the **Group Name** and **Group Title** fields.
- ☐ 53. In the **Group** dialog box, click **OK** to return to the **Dynamic Template Designer** window.
- ☐ 54. In the **Dynamic Template Designer** window, perform the following:
 - Drag and drop the **Array Name** and **Array Type** fields in the **Array Details** group.
 - Drag and drop the **Available Capacity**, **Allocated Capacity**, and the **Total Capacity** fields in the **Capacity Details** group.
 - Drag and drop the **# Aggregates**, **# Volumes**, **# CIFS Shares**, and the **Storage System ID** fields in the **Storage System Details** group.

 If one or more groups exists, all fields must belong to a group.

- ☐ 55. After performing the above steps, click **Save** in the **Dynamic Template Designer** window to save the template.

At this stage, you can run the **APT106ADM_Array_Capacity** report to view its contents.

Note the column alignment, Drilldown links, etc.

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Exercise C: Configuring a Bar Chart Dynamic Template

In this exercise, you create and configure a Bar Chart Dynamic Template.

Creating a Dynamic Template

- ☐ 1. In the **Reports Navigation Panel**, right-click the **APT106ADM_L15** folder and in the resulting menu select **New Dynamic Template**.
- ☐ 2. In the **Dynamic Template Designer** dialog box that is displayed, select **Job** and click **OK**. The **Dynamic Template Designer** dialog box is displayed.
- ☐ 3. In the **Dynamic Template Designer** dialog box, enter **APT106ADM_Jobs** in the **Report Name** field and verify that **APT106ADM_L15** is selected in the **Save in Folder** drop-down list.
- ☐ 4. Select **Bar Chart** in the **Display as** drop-down list and **Veritas NetBackup** in the **Product** drop-down list.
- ☐ 5. Select **Backup** in the **Report Category** drop-down list and enter **Daily backup job status** in the **Report Short Description** and in the **Report Long Description** fields.
- ☐ 6. In the **Dynamic Template Designer** window, expand **Job** folder in the left panel and double-click the **Job Finish Date** and **Summary Status** fields to include them in the template.

Configuring Field Functionality

- ☐ 7. In the **Dynamic Template Designer** window, select the **Job.Job Finish Date** field and click **Configure Field**.
- ☐ 8. In the **Field Configuration** dialog box that is displayed, select **Caption** in the **Type** drop-down and **Date Group By** in the **Formatter** drop-down list.
- ☐ 9. In the **Field Configuration** dialog box, click **OK** to save the changes.
- ☐ 10. In the **Dynamic Template Designer** window, select the **Job.Summary Status** field and click **Configure Field**.
- ☐ 11. In the **Field Configuration** dialog box that is displayed, enter **Success** in the **Field Label** field, select **Bar** in the **Type** field and change the color to **Green**.
- ☐ 12. In the **Field Configuration** dialog box, click **OK** to save the changes.
- ☐ 13. In the **Dynamic Template Designer** window, expand **Job** folder in the left panel and double-click the **Summary Status** field to include another **Summary Status** field it in the template.
- ☐ 14. In the **Dynamic Template Designer** window, select the **Job.Summary Status** field with alias **C** and click **Configure Field**.
- ☐ 15. In the **Field Configuration** dialog box that is displayed, enter **Warning** in the **Field Label** field, select **Bar** in the **Type** field and change the color to **Yellow**.
- ☐ 16. In the **Field Configuration** dialog box, click **OK** to save the changes.
- ☐ 17. In the **Dynamic Template Designer** window, expand **Job** folder in the left panel and double-click the **Summary Status** field to include a third **Summary Status** field it in the template.


- ☐ 18. In the **Dynamic Template Designer** window, select the **Job.Summary Status** field with alias **D** and click **Configure Field**.
- ☐ 19. In the **Field Configuration** dialog box that is displayed, enter **Failed** in the **Field Label** field, select **Bar** in the **Type** field and change the color to **Red**.

Each of the **Summary Status** fields in the template require two functions:


- **DECODE**, which detect and differentiate the status values, create counters for the status so that the number of backup jobs for the particular status can be tallied.
- **SUM**, which sums the number of backup jobs per status.

Configuring Functions for a Field

- ☐ 20. In the **Dynamic Template Designer** window, select the **Job.Summary Status** field with alias **B** and click **Functions**.
- ☐ 21. In the **Function Builder** window that is displayed, click **Add**. The **Function** dialog box is displayed.
- ☐ 22. In the **Function** dialog box, select **DECODE returns Decimal** in the drop-down list.

 Only functions relevant to the selected field will be available. The majority of these functions are Oracle functions that enable you to manipulate values.

- ☐ 23. In the **Functions** dialog box, configure the **Mandatory** and **Optional Parameters** as below.
 - For the first **Decimal**, click in the **Value** cell and enter a **0**. (0 = Success.)
 - For the second **Decimal**, click in the **Value** cell and enter a **1**.
 - Click **Add** in the **Optional Parameters** section and enter a value of **0**.

 This configuration tells the system that whenever a zero is encountered for a job summary status, make it a 1 so that it can be added to the count of successful jobs; then, any other status will be set to 0 so that it will not get counted in this status.

- ☐ 24. In the **Function** dialog box, click **OK** to save the DECODE function's configuration.

You are returned to the Function Builder window.

- ☐ 25. In the **Function Builder** window, click **OK** to return to the **Dynamic Template Designer** window.
- ☐ 26. In the **Dynamic Template Designer** window, select the **Job.Summary Status** field with alias **C** and click **Functions**.
- ☐ 27. In the **Function Builder** window that is displayed, click **Add**. The **Function** dialog box is displayed.
- ☐ 28. In the **Function** dialog box, select **DECODE returns Decimal** in the drop-down list.
- ☐ 29. In the **Functions** dialog box, configure the **Mandatory** and **Optional Parameters** as below.
 - For the first **Decimal**, click in the **Value** cell and enter a **1**. (1 = Warning.)
 - For the second **Decimal**, click in the **Value** cell and enter a **1**.

- Click **Add** in the **Optional Parameters** section and enter a value of **0**.

- ☐ 30. In the **Function** dialog box, click **OK** to save the DECODE function's configuration.

You are returned to the Function Builder window.

- ☐ 31. In the **Function Builder** window, click **OK** to return to the **Dynamic Template Designer** window.

- ☐ 32. In the **Dynamic Template Designer** window, select the **Job.Summary Status** field with alias **D** and click **Functions**.

- ☐ 33. In the **Function Builder** window that is displayed, click **Add**. The **Function** dialog box is displayed.

- ☐ 34. In the **Function** dialog box, select **DECODE returns Decimal** in the drop-down list.

- ☐ 35. In the **Functions** dialog box, configure the **Mandatory** and **Optional Parameters** as below.

- For the first **Decimal**, click in the **Value** cell and enter a **2**. (2 = Failure.)
- For the second **Decimal**, click in the **Value** cell and enter a **1**.
- Click **Add** in the **Optional Parameters** section and enter a value of **0**.

- ☐ 36. In the **Function** dialog box, click **OK** to save the DECODE function's configuration.


You are returned to the Function Builder window.

- ☐ 37. In the **Function Builder** window, click **OK** to return to the **Dynamic Template Designer** window.

Defining the Scope Selector

- ☐ 38. In the **Dynamic Template Designer** window, click **Define Scope Selector**.

- ☐ 39. In the **Scope Selector Components** dialog box that is displayed, select the **Group By** component and click **OK** to return to the **Dynamic Template Designer** window

 Whenever a bar chart has a caption that is a date, a **Group By** in the Scope selector is required.

Saving and Running the Report Template

- ☐ 40. In the **Dynamic Template Designer** window, click **Save** to save the template.

- ☐ 41. In the **Reports** view panel, double-click the **APT106ADM_Jobs** report. The **APT106ADM_Jobs Scope Selector** dialog box is displayed.

- ☐ 42. In the **APT106ADM_Jobs Scope Selector** dialog box, select **Last 3 years** in the **Time period** drop-down list.

- ☐ 43. Click **Modify** under **Select report scope**.

- ☐ 44. In the **Report Scope Selector** dialog box, click **Hosts**.

- ☐ 45. In the **Internal name:**, enter **nbmaster1.example.com** and set **Type** to **NetBackup Master**.

- ☐ 46. Click **Search**.
- ☐ 47. Following result is displayed :

The screenshot shows the 'Report Scope Selector' dialog box with the 'Hosts' tab selected. The 'Internal name' field contains 'nbmaster1.example.com'. The 'External name' field is empty. The 'Attribute' dropdown is set to 'NetBackup Master'. The 'Value' dropdown is empty. The 'IP address' field is empty. The 'Type' dropdown is set to 'NetBackup Master'. The 'Search' button is visible. Below the search fields is a table with the following data:

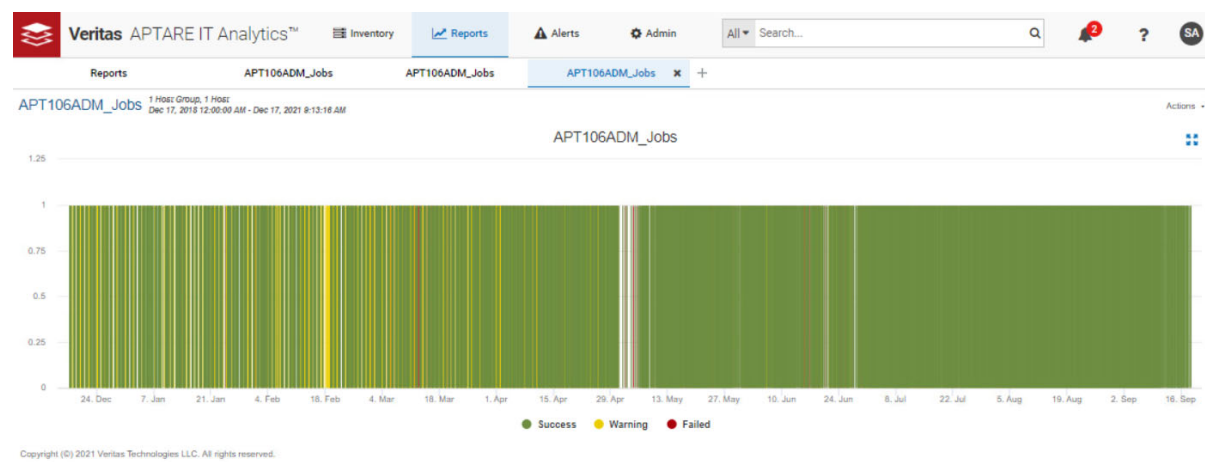
Name	IP address	Make	Model	OS
nbmaster1.example.c	10.10.2.9	Linux	Linux	

Below the table is an 'Add All' button. At the bottom of the dialog are 'OK', 'Cancel', and 'Help' buttons.

- ☐ 48. Click **Add All** and then click **OK**. You are returned to **APT106ADM_Jobs Scope Selector**.
- ☐ 49. Click **Generate** to generate the report.

It might take a couple of minutes to generate the report.

The contents of the **APT106ADM_Jobs** report are displayed in a new tab as illustrated below:



☐ 50. Review the contents of the **APT106ADM_Jobs** report and close the **APT106ADM_Jobs** tab.

While a bar chart provides an at-a-glance, visual representation of backup job success, it's often useful to be able to drill down to details. You can achieve this by configuring a drilldown for each Summary Status field.

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Exercise D: Configuring a Pie Chart Dynamic Template

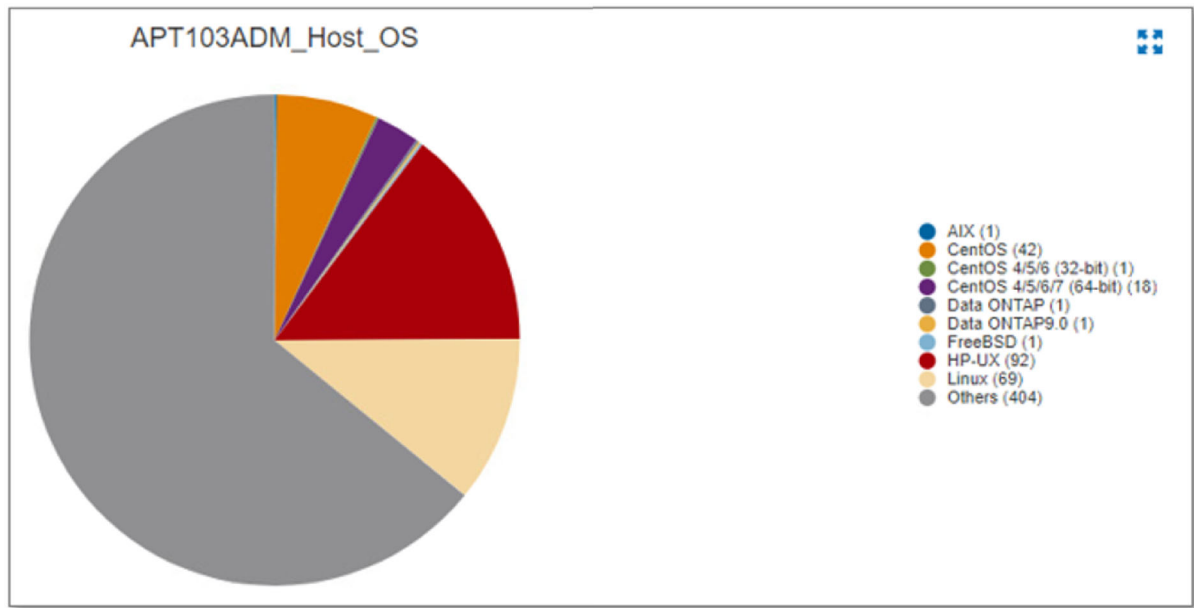
In this exercise, you create and configure a Pie Chart Dynamic Template.

- ☐ 1. In the **Reports Navigation Panel**, right-click the **APT106ADM_L15** folder and in the resulting menu select **New Dynamic Template**.
- ☐ 2. In the **Dynamic Template Designer** dialog box that is displayed, select **Host** and click **OK**. The **Dynamic Template Designer** dialog box is displayed.
- ☐ 3. In the **Dynamic Template Designer** dialog box, enter **APT106ADM_Host_OS** in the **Report Name** field and verify that **APT106ADM_L15** is selected in the **Save in Folder** drop-down list.
- ☐ 4. Select **Pie Chart** in the **Display as** drop-down list and **All** in the **Product** drop-down list.
- ☐ 5. Select **Administration** in the **Report Category** drop-down list and enter **Host Operating System Details** in the **Report Short Description** and in the **Report Long Description** fields.
- ☐ 6. In the **Dynamic Template Designer** window, expand **Host > Host Info** folder in the left panel and double-click the **OS** field to include it in the template.
- ☐ 7. In the **Dynamic Template Designer** window, select the **Host Info.OS** field and click **Configure Field**.
- ☐ 8. In the **Field Configuration** dialog box that is displayed, select **Sector** in the **Type** drop-down list and click **OK** to save the changes and return to the **Dynamic Template Designer** window.
- ☐ 9. In the **Dynamic Template Designer** window, expand **Host > Host Info** folder in the left panel and double-click the **OS** field to add a second OS field it in the template.
- ☐ 10. In the **Dynamic Template Designer** window, select the **Host Info.OS** field with alias '**B**' and click **Configure Field**.
- ☐ 11. In the **Field Configuration** dialog box that is displayed, select **Caption** in the **Type** drop-down list and click **OK** to save the changes and return to the **Dynamic Template Designer** window.
- ☐ 12. In the **Dynamic Template Designer** window, select the **Host Info.OS** field with alias '**A**' and click **Functions**.
- ☐ 13. In the **Function Builder** window that is displayed, click **Add**. The **Function** dialog box is displayed.
- ☐ 14. In the **Function** dialog box, select **COUNT returns Decimal** in the drop-down list and click **OK** to return to the **Function Builder** window.
- ☐ 15. In the **Function Builder** window, click **OK** to return to the **Dynamic Template Designer** window.
- ☐ 16. In the **Dynamic Template Designer** window, click **Save** to save the template.
- ☐ 17. In the **Reports** view panel, double-click the **APT106ADM_Host_OS** report. The **APT106ADM_Host_OS Scope Selector** dialog box is displayed.
- ☐ 18. In the **APT106ADM_Host_OS Scope Selector** dialog box, click **Generate** without making any changes.

📄 It might take a couple of minutes to generate the report.

The contents of the **APT106ADM_Host_OS** report are displayed in a new tab.

The Report Template defined in this exercise results in the following pie chart.



- ☐ 19. Review the contents of the **APT106ADM_Host_OS** report and close the **APT106ADM_Jobs** tab.
- ☐ 20. In the **APTARE IT Analytics Portal**, click **System Administrator > Log Out** to log out of the **APTARE IT Analytics Portal**.
- ☐ 21. Close the **Google Chrome** browser window and log out of the **console.example.com** system.

End of Lab
