Sample Microsoft Excel reports

Active IQ Unified Manager 9.9

NetApp
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Sample Microsoft Excel reports

These sample Microsoft Excel reports are intended to introduce reporting options available using Excel advanced features.

The advanced functionality of Excel can create a wide array of reports specific to your needs. For full information on how to use Excel, see the product documentation.

You must have the Application Administrator or Storage Administrator role to manage reports.

Creating a report to show an aggregate capacity table and chart

You can create a report to analyze capacity in an Excel file by using summed totals and the clustered column chart format.

Before you begin

- You must have the Application Administrator or Storage Administrator role.

About this task

Use the following steps to open a Health: All Aggregates view, download the view in Excel, create an available capacity chart, upload the customized Excel file, and schedule the final report.

Steps

1. In the left navigation pane, click **Storage** > **Aggregates**.
2. Select **Reports** > **Download Excel**.

   Depending on your browser, you might need to click **OK** to save the file.

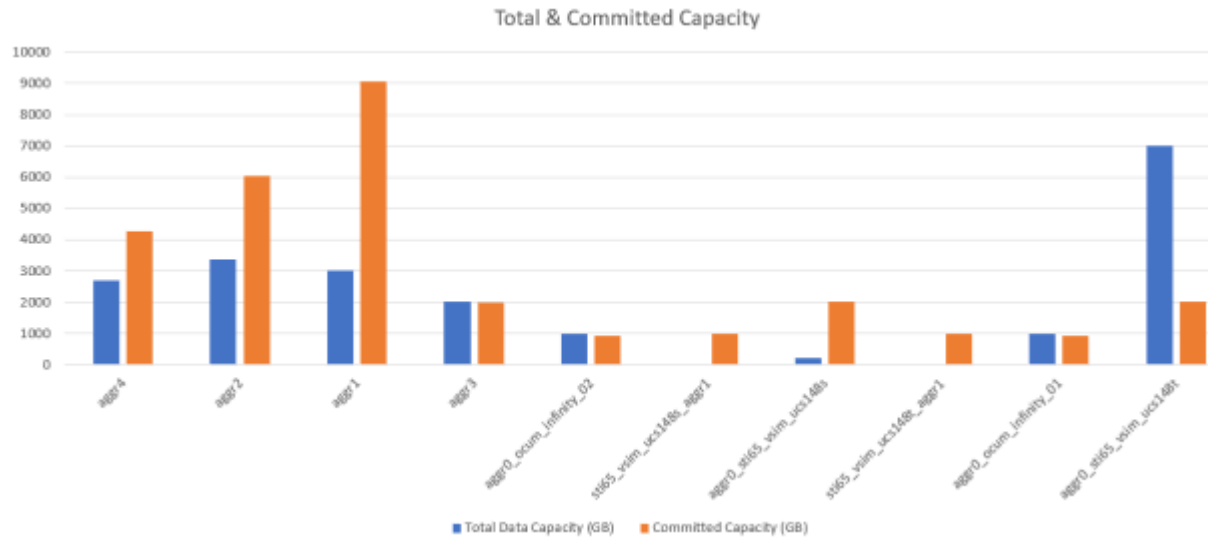
3. If needed, click **Enable Editing**.
4. In Excel, open the downloaded file.

5. Create a new sheet (⊕) after the `data` sheet and name it **Total Data Capacity**.
6. Add the following columns on the new Total Data Capacity sheet:
   a. Total Data Capacity (GB)
   b. Committed Capacity (GB)
   c. Used Data Capacity (GB)
   d. Available Data Capacity (GB)
7. In the first row of each column, enter the following formula, making sure that it references the `data` sheet (data!), and references the correct column and row specifiers for the data captured (Total Data Capacity pulls data from column E, rows 2 through 20).
   a. =SUM(data!E$2:data!E$20)
   b. =SUM(data!F$2:data!F$50)
   c. =SUM(data!G$2:data!G$50)
   d. =SUM(data!H$2:data!H$50)

   The formula totals each column based on the current data.

Total Data Capacity (GB)	Committed Capacity (GB)	Used Data Capacity (GB)	Available Data Capacity (GB)
5380.31	6892.47	11764.27	3911.03

1. On the `data` sheet, select the **Total Data Capacity (GB)** and **Committed Capacity (GB)** columns.
2. Select **Recommended Charts** from the **Insert** menu and select the **Clustered Column** chart.
3. Right-click the chart and select **Move chart** to move the chart to the `Total Data Capacity` sheet.
4. Using the **Design** and **Format** menus, which are available when the chart is selected, you can customize how the chart looks.
5. When satisfied, save the file with your changes. Do not change the file name or location.

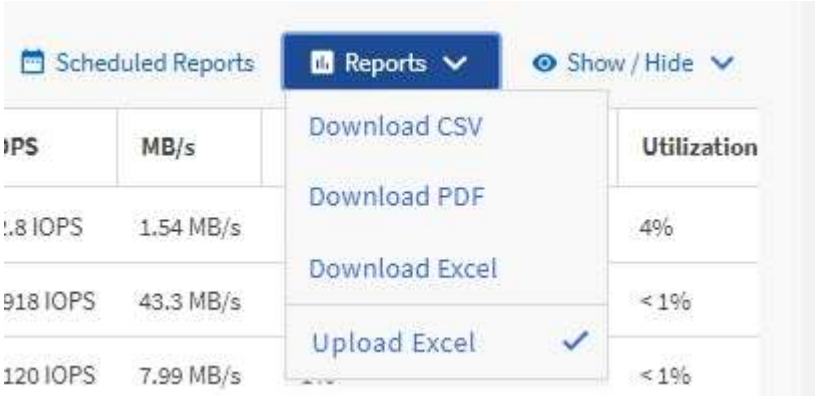


6. In Unified Manager, select **Reports** > **Upload Excel**.

Make sure you are in the same view where you downloaded the Excel file.

7. Select the Excel file you have modified.
8. Click **Open**.
9. Click **Submit**.

   A check mark appears beside the **Reports** > **Upload Excel** menu item.



10. Click **Scheduled Reports**.
11. Click **Add Schedule** to add a new row to the **Report Schedules** page so that you can define the schedule characteristics for the new report.

    Select the **XLSX** format for the report.

12. Enter a name for the report schedule and complete the other report fields, then click the check mark (✓) at the end of the row.

    The report is sent immediately as a test. After that, the report generates and is sent by email to the recipients listed using the specified frequency.

After you finish

Based on the results shown in the report, you might want to investigate how to best use the available capacity across your network.

Creating a report to show aggregate total versus available capacity charts

You can create a report to analyze storage total and committed capacity in an Excel chart format.

Before you begin

- You must have the Application Administrator or Storage Administrator role.

About this task

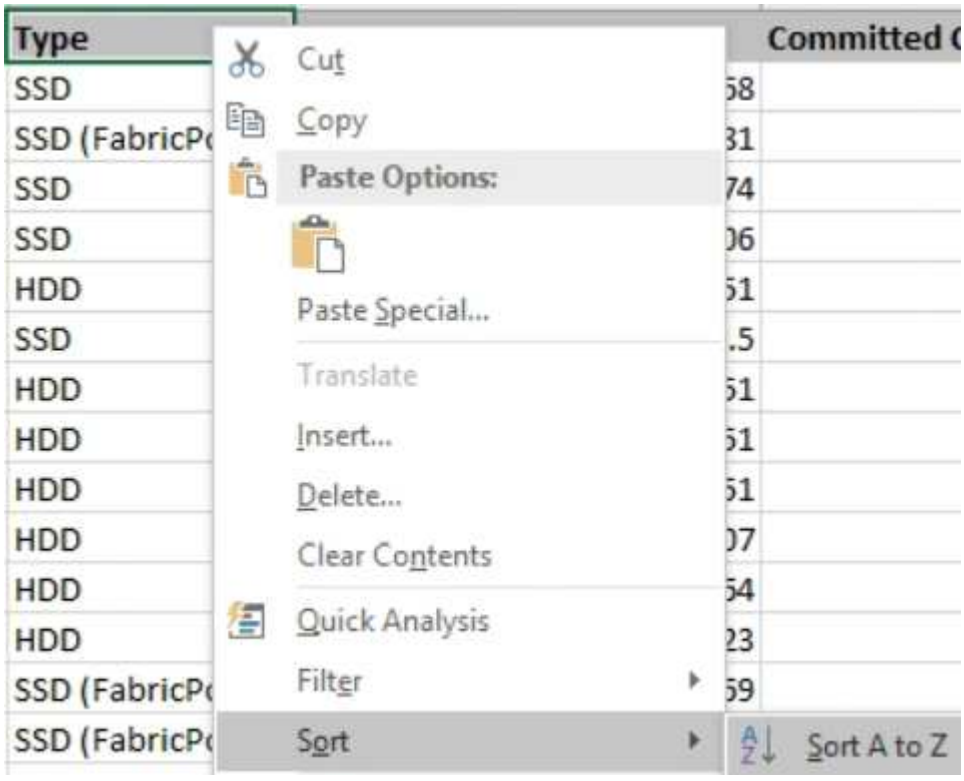
Use the following steps to open a Health: All Aggregates view, download the view in Excel, create a total and committed capacity chart, upload the customized Excel file, and schedule the final report.

Steps

1. In the left navigation pane, click **Storage** > **Aggregates**.
2. Select **Reports** > **Download Excel**.

   Depending on your browser, you might need to click **OK** to save the file.

3. In Excel, open the downloaded file.
4. If needed, click **Enable Editing**.
5. On the `data` sheet, right-click the `Type` column and select **Sort** > **Sort A to Z**.

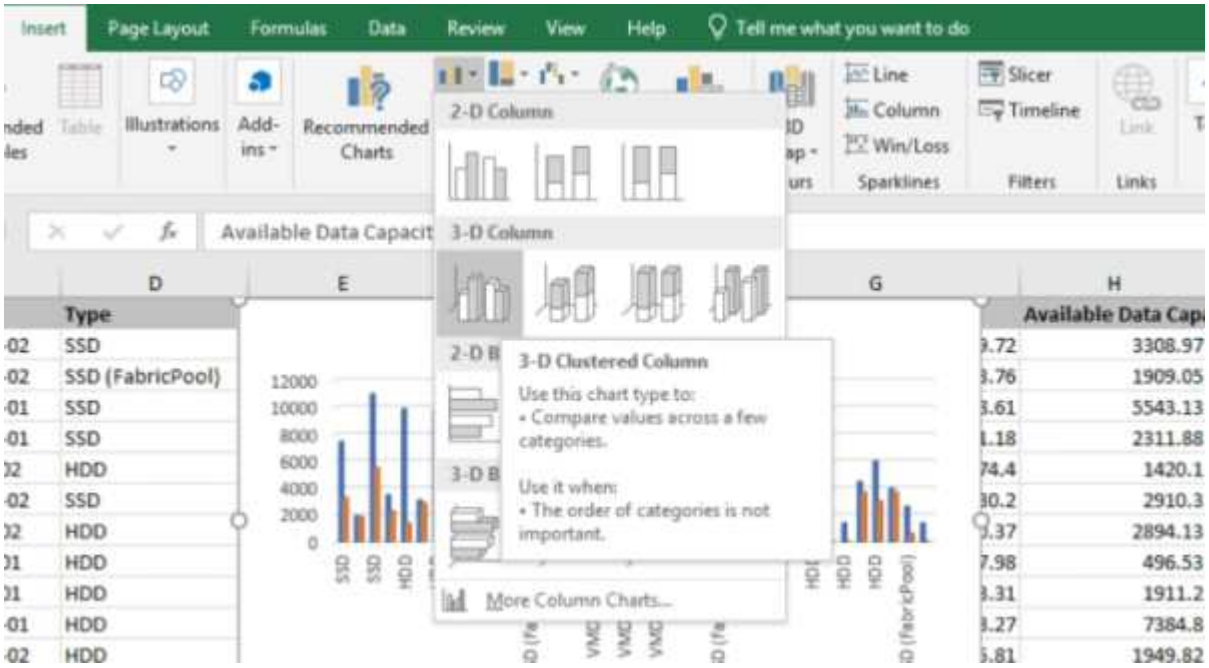


This will arrange your data by storage type, such as:

- HDD
- Hybrid
- SSD
- SSD (FabricPool)

6. Select the `Type`, `Total Data Capacity`, and `Available Data Capacity` columns.
7. On the **Insert** menu, select a `3-D column`chart.

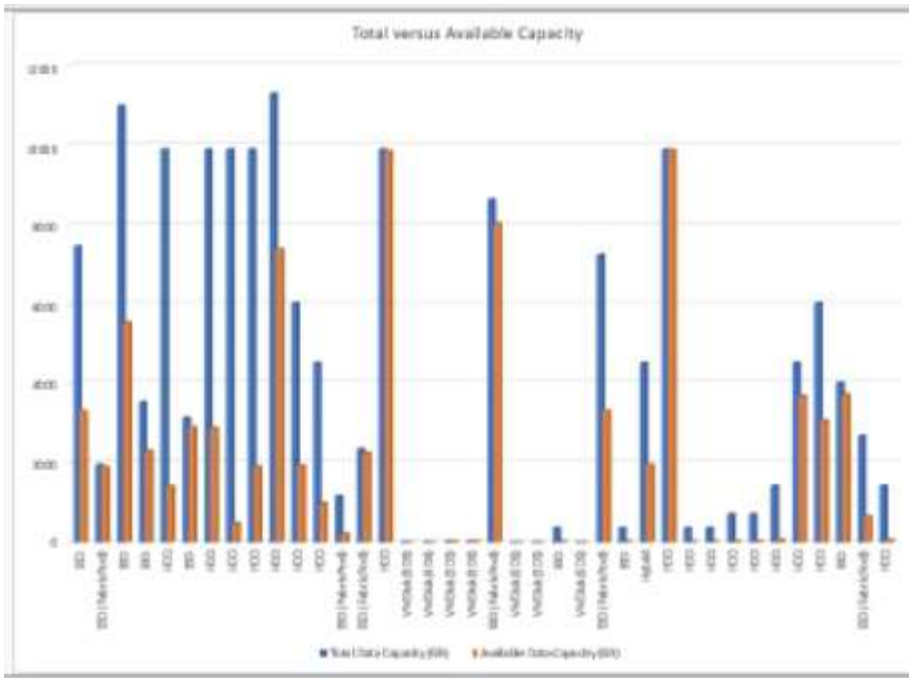
   The chart appears on the `data` sheet.



8. Right-click the chart and select **Move Chart**.
9. Select **New sheet** and name the sheet **Total Storage Charts**.

   Make sure the new sheet appears after the `info` and `data` sheets.

10. Name the chart title **Total versus Available Capacity**.
11. Using the **Design** and **Format** menus, available when the chart is selected, you can customize how the chart looks.
12. When satisfied, save the file with your changes. Do not change the file name or location.

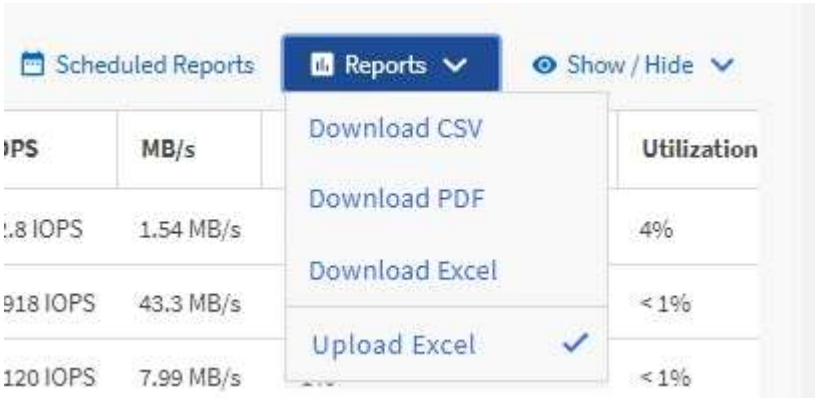


13. In Unified Manager, select **Reports** > **Upload Excel**.

    Make sure you are in the same view where you downloaded the Excel file.

14. Select the Excel file you have modified.
15. Click **Open**.
16. Click **Submit**.

    A check mark appears beside the **Reports** > **Upload Excel** menu item.



17. Click **Scheduled Reports**.
18. Click **Add Schedule** to add a new row to the **Report Schedules** page so that you can define the schedule characteristics for the new report.

    Select the **XLSX** format for the report.

19. Enter a name for the report schedule and complete the other report fields, then click the check mark (✓) at the end of the row.

The report is sent immediately as a test. After that, the report generates and is sent by email to the recipients listed using the specified frequency.

After you finish

Based on the results shown in the report, you might want to balance the load on your aggregates.

Creating a report to view available volume capacity charts

You can create a report to analyze available volume capacity in an Excel chart.

Before you begin

- You must have the Application Administrator or Storage Administrator role.

About this task

Use the following steps to open a Health: All Volumes view, download the view in Excel, create an available capacity chart, upload the customized Excel file, and schedule the final report.

Steps

1. In the left navigation pane, click **Storage** > **Volumes**.
2. Select **Reports** > **Download Excel**.

   Depending on your browser, you might need to click **OK** to save the file.

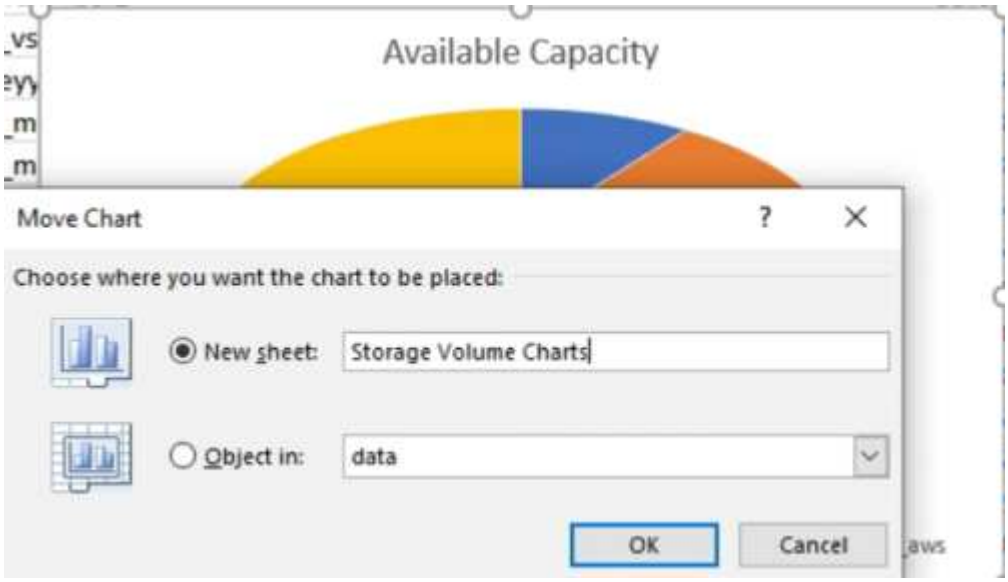
3. If needed, click **Enable Editing**.
4. In Excel, open the downloaded file.
5. On the `data` sheet, select the data that you want to use in the `Volume` and `Available Data %` columns.
6. On the **Insert** menu, select a `3-D pie`chart.

   The chart shows which volumes have the largest available space. The chart appears on the `data` sheet.

Depending on your network configuration, selecting the entire columns or too many data rows might make your pie chart unreadable. This sample uses the 3-D pie chart, but you can use any chart type. Use the chart that best displays the data you want to capture.

7. Name the chart title **Available Capacity**.
8. Right-click the chart and select **Move Chart**.
9. Select **New sheet** and name the sheet **Storage Volume Charts**.

Make sure the new sheet appears after the `info` and `data` sheets.

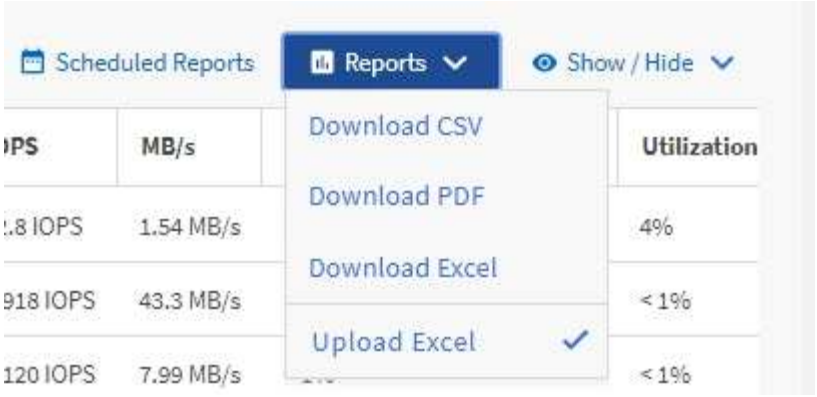


10. Using the **Design** and **Format** menus, available when the chart is selected, you can customize how the chart looks.
11. When satisfied, save the file with your changes.
12. In Unified Manager, select **Reports** > **Upload Excel**.

Make sure you are in the same view where you downloaded the Excel file.

13. Select the Excel file you have modified.
14. Click **Open**.
15. Click **Submit**.

A check mark appears beside the **Reports** > **Upload Excel** menu item.



16. Click **Scheduled Reports**.
17. Click **Add Schedule** to add a new row to the **Report Schedules** page so that you can define the schedule characteristics for the new report.
18. Enter a name for the report schedule and complete the other report fields, then click the check mark (✓) at the end of the row.

    Select the **XLSX** format for the report.

    The report is sent immediately as a test. After that, the report generates and is sent by email to the recipients listed using the specified frequency.

After you finish

Based on the results shown in the report, you might want to balance the load on your volumes.

Creating a report to view aggregates that have the most available IOPS

This report shows which aggregates have the most available IOPS per aggregate type on which you can provision new workloads.

Before you begin

- You must have the Application Administrator or Storage Administrator role.

About this task

Use the following steps to open a Health: All Volumes view, download the view in Excel, create an available capacity chart, upload the customized Excel file, and schedule the final report.

Steps

1. In the left navigation pane, click **Storage** > **Aggregates**.
2. Select **Performance: All Aggregates** from the **View** drop-down.
3. Select **Show/Hide** to show the `Available IOPS` column and hide the `Cluster FQDN`, `Inactive Data Reporting`, and `Threshold Policy` columns.

4. Drag and drop the `Available IOPS` and `Free Capacity` columns next to the `Type` column.
5. Name and save the custom view `Available IOPS Per Aggr`.
6. Select **Reports** > **Download Excel**.

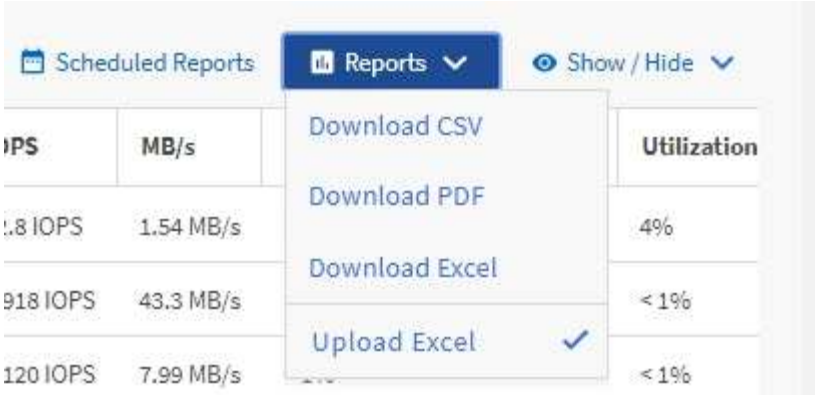
Depending on your browser, you might need to click **OK** to save the file.

7. If needed, click **Enable Editing**.
8. In Excel, open the downloaded file.
9. On the `data` sheet, click the little triangle at the top-left of the sheet to select the entire sheet.
10. On the **Data** ribbon, select **Sort** from the `Sort & Filter` area.
11. Set the following sort levels:
    a. Specify the **Sort by** as `Available IOPS (IOPS)`, the **Sort On** as `Cell Values`, and the **Order** as `Largest to Smallest`.
    b. Click **Add Level**.
    c. Specify the **Sort by** as `Type`, the **Sort On** as `Cell Values`, and the **Order** as `Z to A`.
    d. Click **Add Level**.
    e. Specify the **Sort by** as `Free Capacity (GB)`, the **Sort On** as `Cell Values`, and the **Order** as `Largest to Smallest`.
    f. Click **OK**.
12. Save and close the Excel file.
13. In Unified Manager, select **Reports** > **Upload Excel**.

    Make sure you are in the same view where you downloaded the Excel file.

14. Select the Excel file you have modified, in this case `performance-aggregates-<date>.xlsx`.
15. Click **Open**.
16. Click **Submit**.

A check mark appears beside the **Reports** > **Upload Excel** menu item.



17. Click **Scheduled Reports**.
18. Click **Add Schedule** to add a new row to the **Report Schedules** page so that you can define the schedule characteristics for the new report.
19. Enter a name for the report schedule and complete the other report fields, then click the check mark (✓) at the end of the row.

    Select the **XLSX** format for the report.

    The report is sent immediately as a test. After that, the report generates and is sent by email to the recipients listed using the specified frequency.

After you finish

Based on the results shown in the report, you might want to provision new workloads on the aggregates that have the greatest available IOPS.

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