

How to create a custom report that shows all applications installed on specified Mac?

- Parallels Device Management

Symptoms

How to create a custom report that shows all applications installed on specified Mac?

Resolution

Sometimes it is required to have a SCCM Report that shows a list of applications installed on this or that Mac. Since Parallels Mac Management stores Mac application data differently than SCCM, it is required to create a custom report. Please follow the next steps in order to create a custom report:

1. Open SCCM Console and navigate to **Monitoring -> Overview -> Reporting -> Reports -> Create Report**:
2. In the **Information** page of **Create Report Wizard**:
 - ◆ Choose **SQL-based Report** in **Type** field.
 - ◆ Fill in **Name** field (e.g. Mac applications).
 - ◆ Click **Browse...** near the **Path** field and choose the folder you want to store the report in.
 - ◆ Click **Next**.
3. Click **Next** on **Summary** page of **Create Report Wizard**.
4. Wait for report deploying is finished and click **Close** on **Completion** page of **Create Report Wizard**.
5. When you finish, you should notice that SQL Server Report Builder should now open (if it's not opened, locate the report you created, right-click it and choose **edit**). Provide privileged user credentials when asking.
6. Click **Table or Matrix** in opened **Microsoft SQL Server Report Builder**:
7. In the opened **New Table of Matrix**:
 - ◆ Choose **Create a dataset** and click **Next** on **Choose a dataset** page.
 - ◆ Choose **Data Source Connection** and click **Next** on **Choose a connection to a data source** page (if required provide user credentials and click **OK** in opened **Enter Data Source Credentials** dialog).
 - ◆ Expand **dbo -> Views -> v_GS_COMPUTER_SYSTEM** and select e.g. the following fields in Database view pane:
 - ◇ Name0

Note: You can use **dbo -> Views -> v_R_SYSTEM** and choose e.g. ResourceID and NetBios_Name0 or any other views and fields depending on what data you want the report to contain.
 - ◆ Expand **dbo -> Views -> v_GS_ADD_REMOVE_PROGRAMS** and select e.g. the following fields in Database view pane:
 - ◇ DisplayName0
 - ◇ InstallDate0

◇ Publisher0

◇ Version0

- ◆ Expand **Relationships** section if it is minimized.
- ◆ Click **Auto Detect** option (uncheck it if checked).
- ◆ Click **Add Relationship** button .

- ◆ Click on cell in **Left Table** column and choose **Tables in Current Query -> v_GS_COMPUTER_SYSTEM** (or **v_R_SYSTEM**, depending on your choice in step above):

- ◆ Click on cell in **Right Table** column and choose **Tables in Current Query -> v_GS_ADD_REMOVE_PROGRAMS**

- ◆ Double click on cell in **Join Fields** column.
- ◆ Click **Add Field** in **Edit Related Fields** dialog.
- ◆ Click on cell in **Left Join Filed** column and choose `ResourceID` from opened list.
- ◆ Click on cell in **Right Join Filed** column and choose `ResourceID` from opened list:

- ◆ Click **OK** to close **Edit Related Fields** dialog.
- ◆ Click **Run Query** to view the result and check that query works.
- ◆ Click **Next** on **Design a query** page of **New Table or Matrix** dialog.
- ◆ Select all fields in **Available fields** box and drag and drop them into **Values** box on **Arrange fields** page.

- ◆ Click **Next** on **Arrange fields** page.
- ◆ Click **Next** on **Choose the layout** page.
- ◆ Choose style and click **Finish > >** on **Choose a style** page.

At this point we have a report that will show all applications installed on all Mac's. To make this report show applications installed on a specified Mac, please continue editing:

8. Right-click **Datasets** in the left pane of **Microsoft SQL Server Report Builder > Add Dataset....**:

9. In **Query** tab of **Dataset Properties** dialog choose **Use a dataset embedded in my report** option, choose **Data source** and click on **fx** button:

10. Paste the following query (this query will select all Mac hosts) in **Expression** windows and click **OK** to close **Dataset Properties** dialog:

```
SELECT
    v_GS_COMPUTER_SYSTEM.Name0
FROM
    v_GS_COMPUTER_SYSTEM
WHERE
    v_GS_COMPUTER_SYSTEM.Description0 LIKE '%macOS%'
```

11. Right-click **Parameters** in the left pane of **Microsoft SQL Server Report Builder** > **Add Parameter...**:

12. In **Report Parameter Properties**:

- ◆ In **General** tab specify the **Name**, e.g. **mac_name**, specify the **Prompt**, e.g. **Mac Name**:

- ◆ In **Available Values** tab choose **Get values from a query**, choose the latest created **DataSet**, set **Value field** and **Label field** to **Name0** and click **OK**:

13. Expand **Datasets** in the left pane and right-click the first dataset > **Query**:

14. Click on **Edit as Text** button to modify the query manually:

15. Paste the following strings in the beginning of the query (this will declare a **@ResourceID** integer variable that will contain Mac ResourceID depending on the host name you specify):

```
DECLARE
    @ResourceID int

SELECT
    @ResourceID = v_GS_COMPUTER_SYSTEM.ResourceID
FROM
    v_GS_COMPUTER_SYSTEM
WHERE
    v_GS_COMPUTER_SYSTEM.Name0 = @mac_name
```

and add the following condition in the end of the query (to make a query select applications only for specified Mac):

```
WHERE  
    v_GS_COMPUTER_SYSTEM.ResourceID = @ResourceID
```

NOTE: Parameter @mac_name can be different depending on the one you specified in **step 12**.

16. Click **OK** to close **Query Designer**.

17. Click **Save** button on **Microsoft SQL Server Report Builder** dialog to save the created report and close it.

Mac applications report has been created. Now you can run it, select Mac and view installed applications:

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