How to create a custom report that shows all Mac's with specified application installed?

- Parallels Device Management

Symptoms

How to create a custom report that shows all Mac's with specified application installed?

Resolution

Sometimes it is required to have a SCCM Report that shows a list of Mac's that have this or that application installed. 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's with specified application`).
    - 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 sorce** 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_ADD_REMOVE_PROGRAMS**
    - ♦ Click on cell in **Right Table** column and choose **Tables in Current Query -> v_GS_COMPUTER_SYSTEM** (or **v_R_SYSTEM**, depending on your choice in step above):
    - ♦ 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 `RecourceID` from opened list.
    - ♦ Click on cell in **Right Join Filed** column and choose `RecourceID` 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 all Mac's that have a specified application installed, please continue editing:
8. Right-click **Parameters** in the left pane of **Microsoft SQL Server Report Builder > Add Parameter...**:
9. In **General** tab of **Report Parameter Properties** dialog, specify the **Name**, e.g. **app_name**, specify the **Prompt**, e.g. **Application name**:
10. Click **OK** to close **Report Parameter Properties** dialog.
11. Expand **Datasets** in the left pane and right-click the dataset **> Query**:
12. Click on **Edit as Text** button to modify the query manually:
13. Paste the following the following conditions in the end of the query (to make a query select Mac's with specified applications installed):

```
WHERE
   v_GS_ADD_REMOVE_PROGRAMS.DisplayName0 LIKE '%' + @app_name + '%'
AND
   (v_GS_COMPUTER_SYSTEM.Description0 LIKE 'mac%' OR v_GS_COMPUTER_SYSTEM.Description0 LIKE 'OS%
```

14. Click **OK** to close **Query Designer**.
15. Click **Save** button on **Microsoft SQL Server Report Builder** dialog to save the created report and close it.

Mac's with specified application report has been created. Now you can run it, specify an application and view all Mac's that have this application installed:

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