# Manage software retirement

Lab 5.3 15-20 minutes

## Lab objectives

You will achieve the following objectives:

- Software entitlements are expired
- Software installations are removed
- Software model is retired
- Report reviewed for products nearing end-of-support and end-of-life

Lab Dependency: Requires the completion of Labs 1.1, and 2.1

Required Resources: None

#### Scenario

Rick Lemm, Software Asset Manager at CloudD, has been informed by the Information Technology Architect that Microsoft SQL Server 2016 Enterprise is being discontinued in the environment. Rick needs to ensure that no additional license rights are allocated, existing allocated license rights are reclaimed and removed, and the software model is retired.

Rick knows that using end-of-support or end-of-life software no longer supported by a publisher could potentially expose CloudD to the risk of security threats. They would like to determine if there are any other software products in their environment nearing end-of-support or end-of-life so they can proactively handle these situations to mitigate potential risk to his organization.

### **Requirements Summary**

#### **User Stories**

STRY050301 – Retire Microsoft SQL Server software

As a software asset manager, I need to retire the Microsoft SQL Server 2016 Enterprise software model, so that the software can be discontinued within the environment.

STRY050302 – Gain visibility to end-of-life and end-of-support software

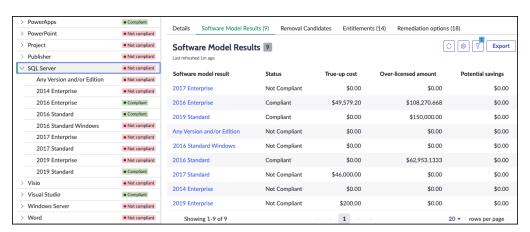
As a software asset manager, I need to determine if there are any software products within my environment that are nearing end-of-support or end-of-life so that I can mitigate risk to my organization.

#### STRY050301 - Retire Microsoft SQL Server software

#### Section 1 Create software removal candidates

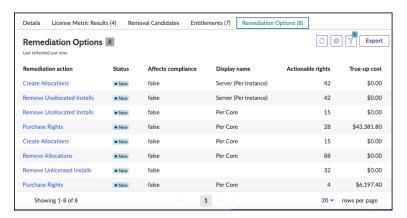
Before expiring all software entitlements related to the Microsoft SQL Server 2016 Enterprise software model Rick Lemm, the software asset manager at CloudD, needs to create removal candidates to remove the existing installations of these in-use rights.

- 1. As **Rick Lemm**, run a reconciliation on **Microsoft**.
- 2. When the Reconciliation is complete, view the software model results for **Microsoft SQL Server** on the License usage view.



- Knowledge Check: Results may vary in your instance.
- 3. In the navigation menu, expand the results for SQL Server and select 2016 Enterprise.
  - **Knowledge Check:** Refer to the Answer Guide at lab's end.

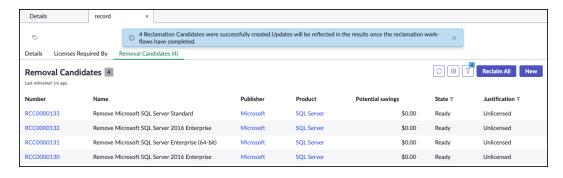
- What is the Status for Microsoft SQL Server?
- 4. View the Remediation Options.



5. Click the **Remove Unlicensed Installs** remediation option.



- 6. Click Create All Removal Candidates.
- 7. Click on the **Removal Candidates** tab to view the Removal Candidates.



## Section 2 Expire software entitlements

Next, Rick needs to expire all software entitlements related to the Microsoft SQL Server 2016 Enterprise software model to prevent any additional licenses from being allocated.

Navigate to Software Asset Workspace > License operations > Licensing > Software models.



2. Open the Microsoft SQL Server 2016 Enterprise software model.

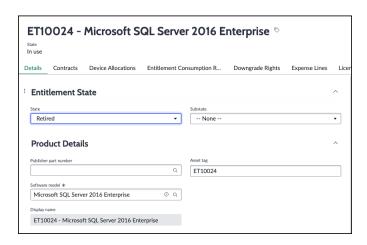
**Note:** The software model is "Microsoft SQL Server 2016 Enterprise" not "2016 Enterprise Core".

3. In the Software Entitlements tab, click the Display name of **ET10024 - Microsoft SQL Server 2016 Enterprise**.

**Knowledge Check:** Refer to the Answer Guide at lab's end.

2. How many Active rights and Allocations available does this entitlement currently have?

4. On the **Entitlement State** section of the Software Entitlement form, update State to **Retired**.



5. Click Save.

**Knowledge Check:** Refer to the Answer Guide at lab's end.

- 3. How many Active rights and Allocations available does this entitlement now have? Why?
- 6. Navigate back to the Details view of the Microsoft SQL Server 2016 Enterprise software model.
- 7. Retire two additional software entitlements with the Display name starting with ET10025 and ET10063.
- 8. Click **Save** on the Software model record once all Software entitlements are retired.

**Note:** In a real world setting a fix script would be used to remove installations, for the purposes of time we will assume that has occurred.

#### Section 3 Retire software model

Finally, once Jet informs Rick that all installations have been removed, Rick needs to retire the Microsoft SQL Server 2016 Enterprise software model.

- 1. Impersonate Rick Lemm.
- Navigate to Software Asset Workspace > License operations > Licensing > Software models.



- 3. Open the Microsoft SQL Server 2016 Enterprise software model.
- 4. In the Software Model Status section, set Status to **Retired**.
- 5. Click **Save**.

# STRY050302 – Gain visibility to end-of-life end-of-support software

### Section 4 Run Software Model Lifecycle Report

Now that Rick has retired one software model, they would like to determine if there are any other software products within the CloudD environment nearing end-of-life/end-of-support. Rick has asked the ServiceNow System Administrator, Jet Blake, to provide them this information. Before generating the report, Jet would like to ensure their environment is configured appropriately to collect this information.

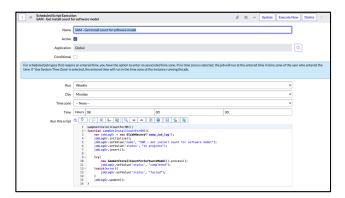
- 1. Impersonate System Administrator.
- Navigate to System Definition > Scheduled Jobs.



3. Find and open the job, **SAM - Get install count for software model**.



4. Review the job properties.

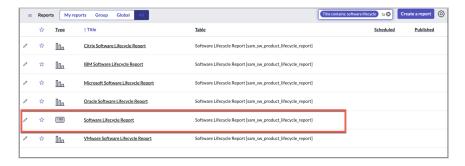


Knowledge Check: Refer to the Answer Guide at lab's end.

- 4. How often is the job scheduled to run? Is the job Active?
- 5. Click Execute Now.

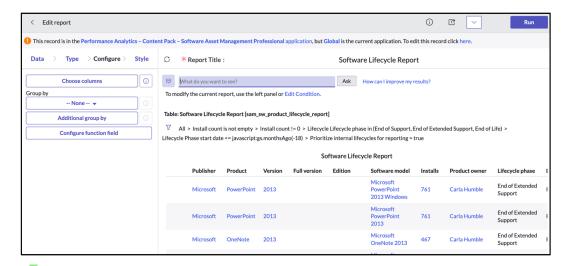
**Note:** Even though the job is currently scheduled to run weekly, Jet would like to ensure he gets Rick the most up-to-date information for his evaluation.

- 6. Navigate to Reports > View / Run.
- 7. Search for **Software Lifecycle Report**.



**Note:** The search is not case-insensitive, but do not use a wildcard in the search string to search for the report. Search for software lifecycle.

8. Click the **Title** to open the report.



**Knowledge Check:** Refer to the Answer Guide at lab's end.

- 5. What Lifecycle phases are the products in?
- 6. What Lifecycle types are the products in?

**Note:** Once Jet provides him with this information, Rick will use it to mitigate risk to CloudD using remediation actions such as buying extended support, planning for software upgrades, and/or removing software from their environment.



You are now ready to begin learning about Software Asset Management reporting and analytics.

## **Knowledge Check Answer Guide**

- 1. What is the Status for Microsoft SQL Server 2016 Enterprise?
  - Compliant
- 2. How many Active rights and Allocations available does this entitlement currently have?
  - Active rights = 25
  - Allocations available = 25
- How many Active rights and Allocations available does this entitlement now have? Why?
  - 0 for both
  - The entitlement has been retired. This stops any additional allocations from occurring against this entitlement.
- 4. How many Unlicensed Installs, Rights owned, Rights used, and Rights available are now?
  - Unlicensed Installs = 0
  - Rights owned = 0
  - Rights used = 0
  - Rights available = 0
- 5. How often is the job scheduled to run? Is the job Active?
  - Weekly, yes
- 6. What Lifecycle phases are the products in?
  - End of Extended Support
  - End of Support
  - End of Life
- 7. What Lifecycle types are the products in?
  - Publisher

## Lab takeaways



- Remove software installations
- Retire software models
- Review software lifecycle report