

# opensight - intune appstate prt看 sensor

---

Monitor intune application installation states in prt看

## Content

---

- [opensight - intune appstate prt看 sensor](#)
- [Content](#)
  - [Script Features](#)
  - [Prerequisites](#)
    - [PRTG Probe Configuration](#)
    - [Microsoft Azure Configurations](#)
  - [Installation](#)
    - [PRTG](#)
    - [Script Parameters](#)
    - [Manual Testing](#)
    - [Some more examples](#)

## Script Features

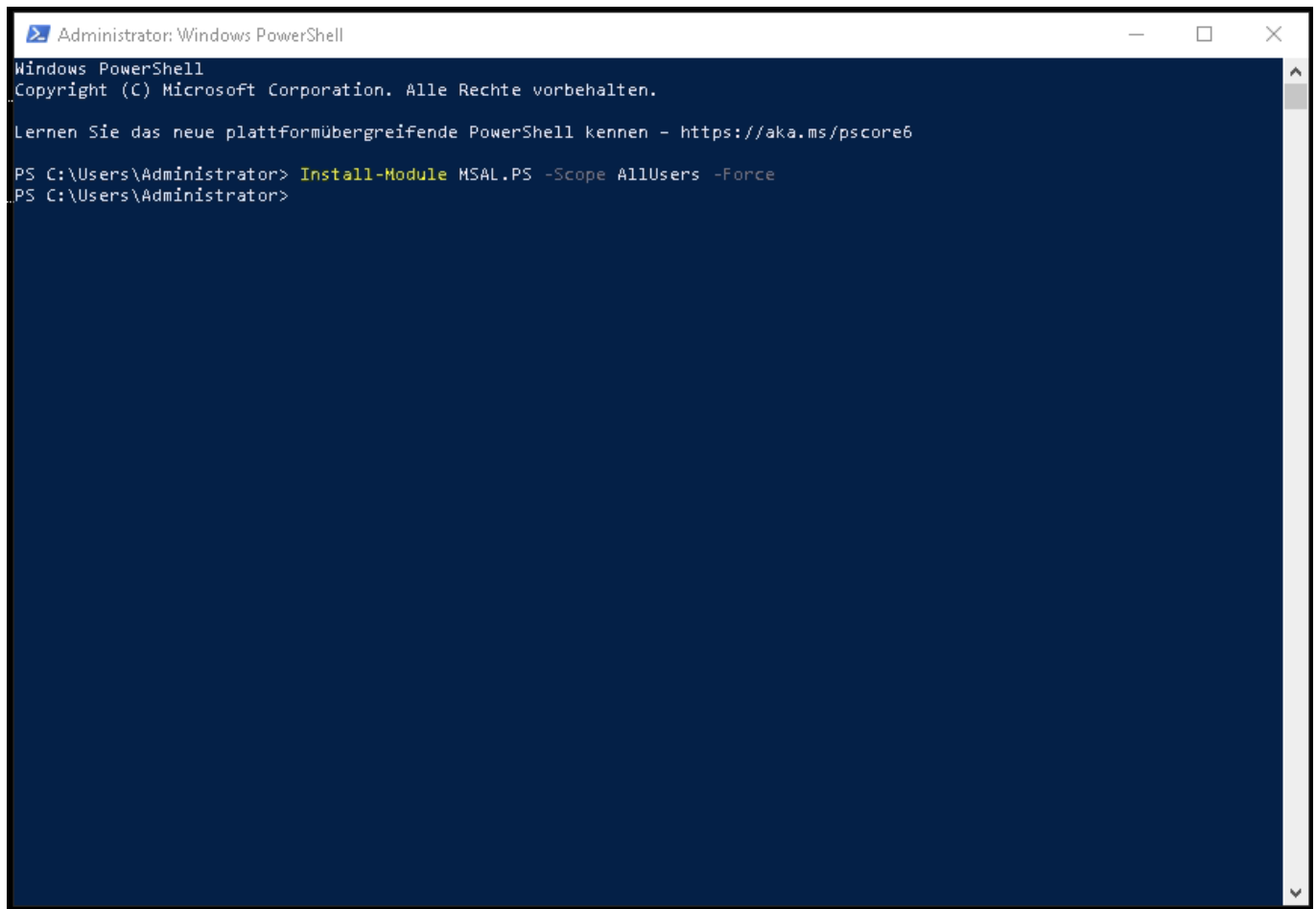
- Authentication with an Azure Service Principal
- List all application install states

## Prerequisites

### PRTG Probe Configuration

- On the machine, where the sensor script will run (aka the prt看 probe), install the msal.ps module.  
(microsoft authentication library)

```
Install-Module MSAL.PS -Scope AllUsers -Force
```



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. Alle Rechte vorbehalten.

Lernen Sie das neue plattformübergreifende PowerShell kennen - https://aka.ms/pscore6

PS C:\Users\Administrator> Install-Module MSAL.PS -Scope AllUsers -Force
PS C:\Users\Administrator>
```

Also make sure that running scripts is actually possible. Open the **32-bit / x86** version of powershell. Set The ExecutionPolicy

```
set-executionpolicy unrestricted -Scope LocalMachine
```

```
Administrator: Windows PowerShell (x86)
Windows PowerShell
Copyright (C) Microsoft Corporation. Alle Rechte vorbehalten.

Lernen Sie das neue plattformübergreifende PowerShell kennen - https://aka.ms/pscore6

PS C:\Users\Administrator> Get-ExecutionPolicy -list

Scope ExecutionPolicy
-----
MachinePolicy Undefined
UserPolicy Undefined
Process Undefined
CurrentUser Undefined
LocalMachine Undefined

PS C:\Users\Administrator> Set-ExecutionPolicy unrestricted -Scope LocalMachine

Ausführungsrichtlinie ändern
Die Ausführungsrichtlinie trägt zum Schutz vor nicht vertrauenswürdigen Skripts bei. Wenn Sie die Ausführungsrichtlinie
ändern, sind Sie möglicherweise den im Hilfethema "about_Execution_Policies" unter
"https://go.microsoft.com/fwlink/?LinkID=135170" beschriebenen Sicherheitsrisiken ausgesetzt. Möchten Sie die
Ausführungsrichtlinie ändern?
[Y] Ja [A] Ja, alle [N] Nein [K] Nein, keine [H] Anhalten [?] Hilfe (Standard ist "N"): a
PS C:\Users\Administrator>
```

## Microsoft Azure Configurations

First create a new app registration in intune (service principal)

Microsoft Azure

Search resources, services, and docs (G+/)

Home > opensight.ch | App registrations >

Register an application

✕

\* Name

The user-facing display name for this application (this can be changed later).

prtg-sensor

Supported account types

Who can use this application or access this API?

☒ Accounts in this organizational directory only (opensight.ch only - Single tenant)

☐ Accounts in any organizational directory (Any Azure AD directory - Multitenant)

☐ Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)

☐ Personal Microsoft accounts only

[Help me choose...](#)

Redirect URI (optional)

We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.

Select a platform

e.g. https://example.com/auth

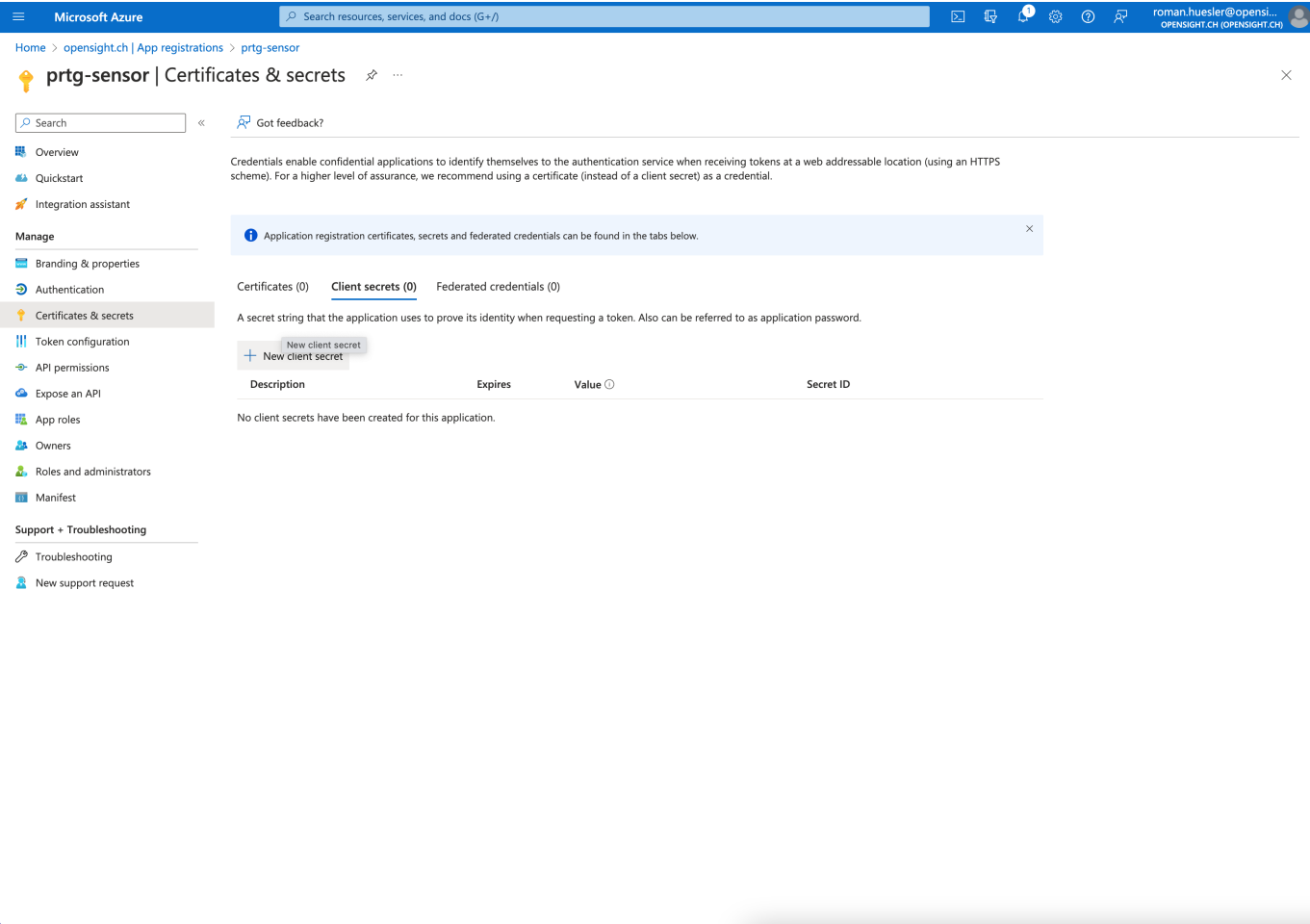
Register an app you're working on here. Integrate gallery apps and other apps from outside your organization by adding from [Enterprise applications](#).

By proceeding, you agree to the [Microsoft Platform Policies](#)

Register

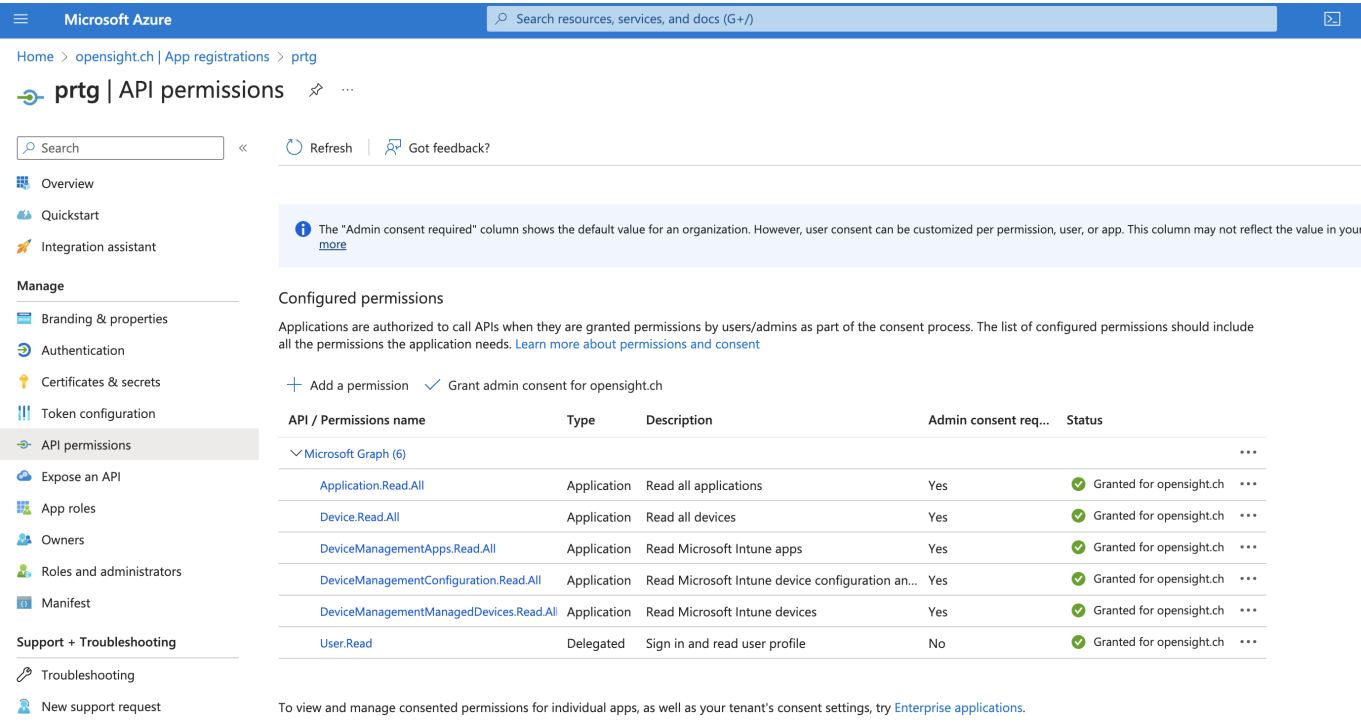
- Make note of the application id (script parameter -app\_id)
- Make note of the tenant id (script parameter -tenant\_id)

Create a new client secret in the app registration



- Make note of the secret value (script parameter -client\_secret)

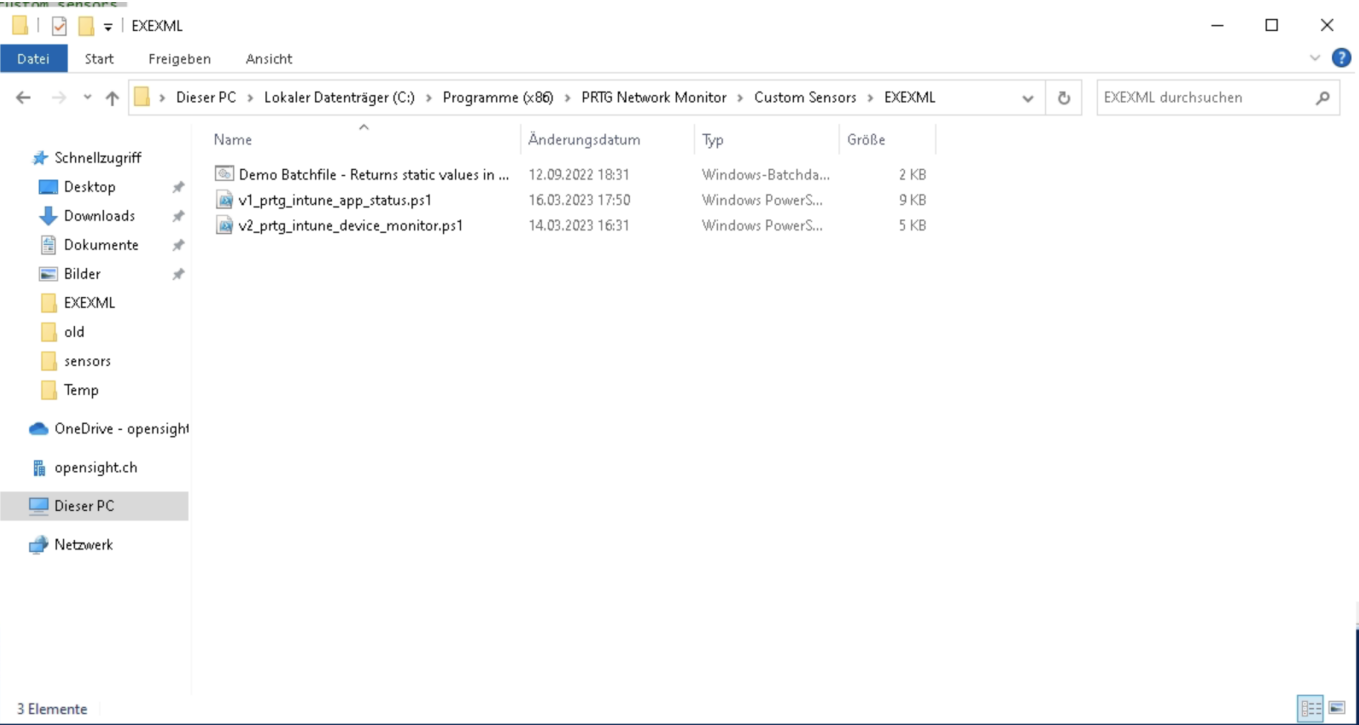
Grant the required permissions and give admin consent



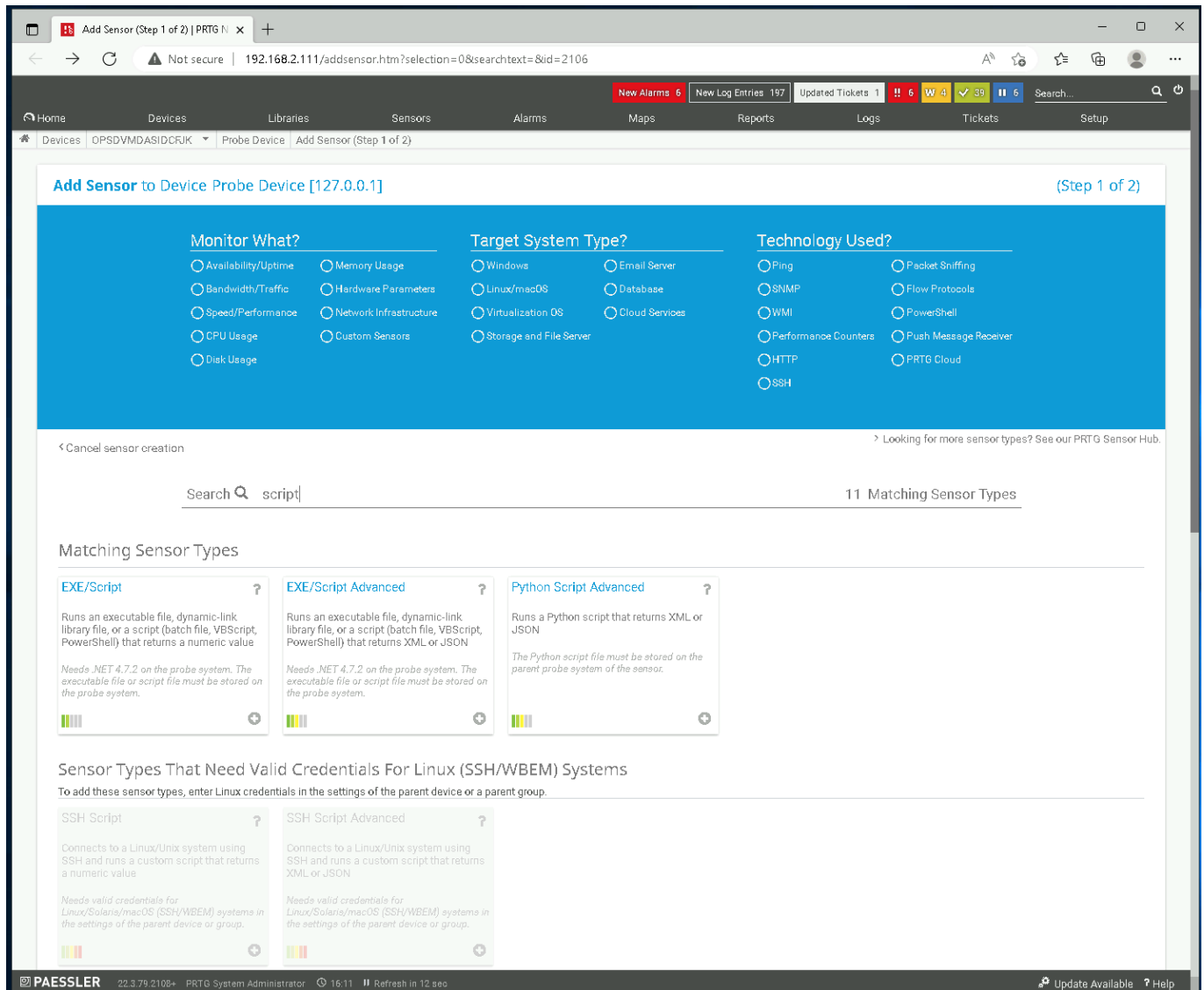
Installation

PRTG

Put the sensor in the right location on the prtg probe in the EXEXML folder



## In PRTG create a new EXE/advanced probe



## Script Parameters

Add the parameters that were noted above to the sensor configuration. Use **single quotes**

- app\_id
- tenant\_id
- client\_secret

Then you can also use the 2 parameters:

- states  
filter the device states that you like to show in prtg with this parameter. you can use "total;all;installed;failed;notInstalled;uninstallFailed;pendingInstall;unknown;notApplicable"
  - total  
show the total of all states (example: 2 "installed" plus 3 "failed" plus 0 "unkown" etc result in a total of 5)
  - all  
just show all states in prtg (installed, failed, ...)
  - installed;failed  
just show installed or failed packages in prtg

- softwarenames

filter the software that you like to show in prtg

- overall

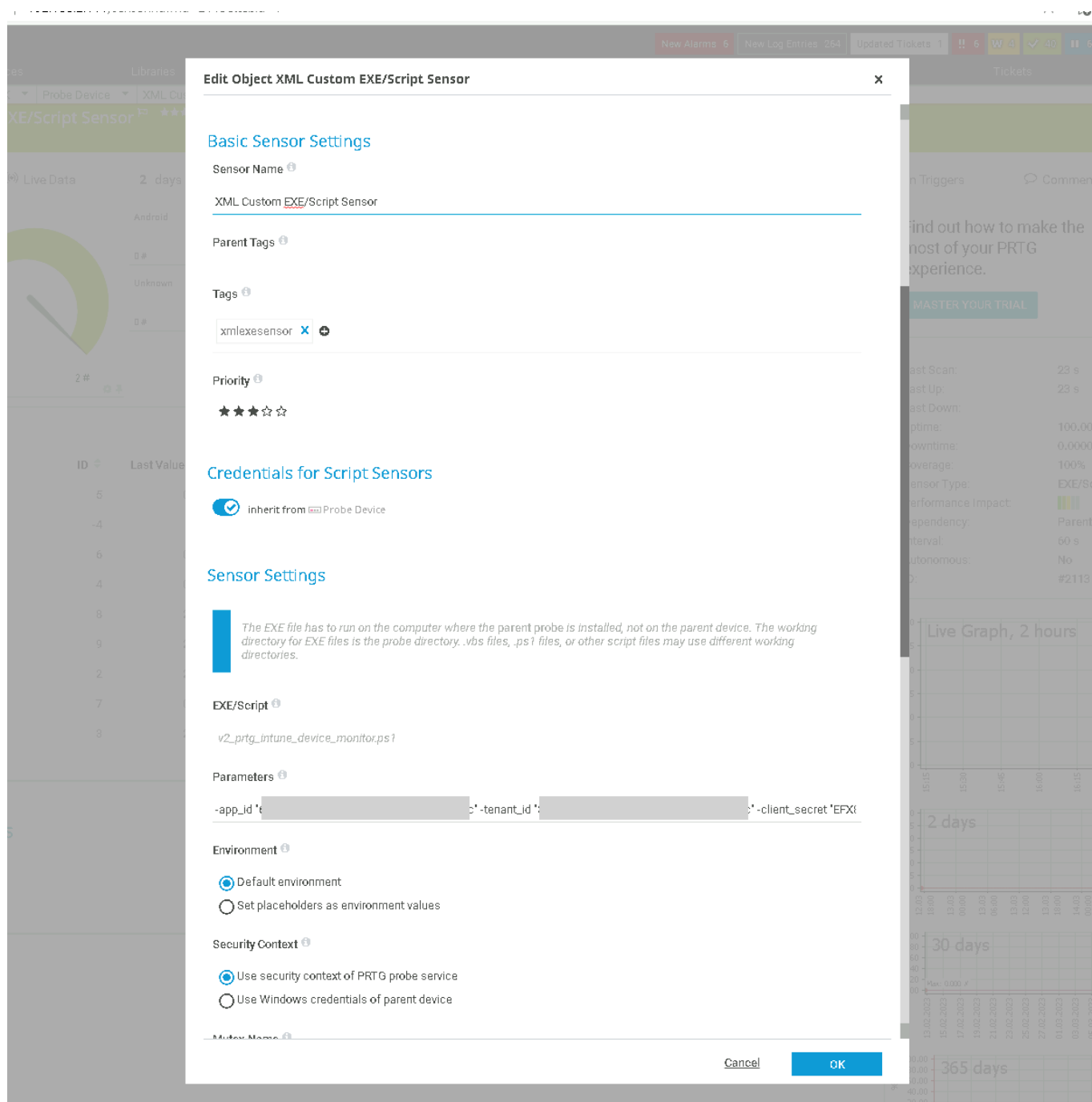
show overall stats in prtg. example: winscp has 2 "installed" and 7zip has 3 "installed". Results in overall 5 "installed"

- all

show stats for all detected apps from intune in prtg.

- winscp;7zip

show stats for winscp and 7zip in prtg



## Manual Testing

On the PRTG Probe, you can also test the sensor manually. Just open a powershell and type



```
. "C:\Program Files (x86)\PRTG Network Monitor\Custom  
Sensors\EXEXML\v1_prtg_intune_app_status.ps1" -app_id 'xxx-xxx-xxx-xxx' -  
tenant_id 'xxx-xxx-xxx-xxx' -client_secret 'xxxxxxx'
```

Some more examples

#### **all data**

```
. "C:\Program Files (x86)\PRTG Network Monitor\Custom  
Sensors\EXEXML\v1_prtg_intune_app_status.ps1" `  
-app_id 'xxx-xxx-xxx-xxx' `  
-tenant_id 'xxx-xxx-xxx-xxx' `  
-client_secret 'xxxxxxx' `  
-states 'all' `  
-softwarenames 'all;overall'
```

#### **all installed and failed for packages 7zip and winscp**

```
. "C:\Program Files (x86)\PRTG Network Monitor\Custom  
Sensors\EXEXML\v1_prtg_intune_app_status.ps1" `  
-app_id 'xxx-xxx-xxx-xxx' `  
-tenant_id 'xxx-xxx-xxx-xxx' `  
-client_secret 'xxxxxxx' `  
-states 'installed;failed' `  
-softwarenames '7zip;winscp'
```

#### **all failed installations for all apps**

```
. "C:\Program Files (x86)\PRTG Network Monitor\Custom  
Sensors\EXEXML\v1_prtg_intune_app_status.ps1" `  
-app_id 'xxx-xxx-xxx-xxx' `  
-tenant_id 'xxx-xxx-xxx-xxx' `  
-client_secret 'xxxxxxx' `  
-states 'failed' `  
-softwarenames 'all'
```