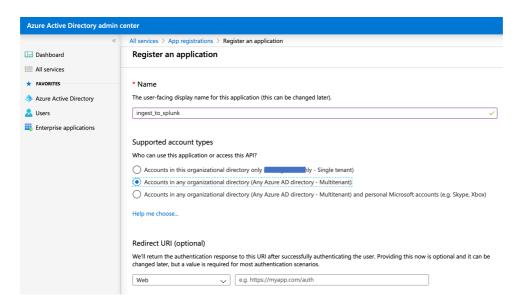
How to configure Splunk Add-on for Microsoft Office 365

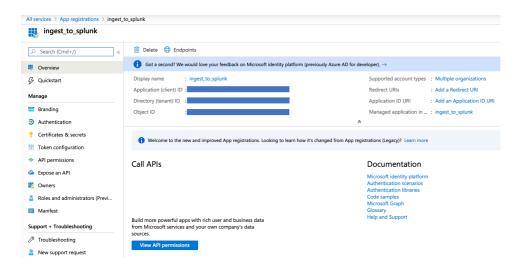
(including Azure / Office 365 app registration)

Disclaimer: The steps mentioned in this document are current as of 14 Apr 2020. The Azure portal, Office 365 portal and Splunk Add-on for Microsoft Office 365 continue to evolve and change, which may render some steps / screenshots invalid.

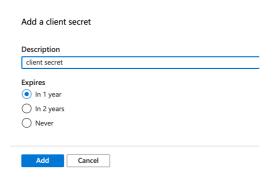
- 1) Log in to admin.microsoft.com > go to Azure Active Directory.
- 2) On the left pane, click All Services > search for: "App registrations".
- 3) Click App registrations > New registration.
- 4) Put any name you like. For the supported account type, select option 2 (Any Azure AD directory Multitenant). Leave the **Redirect URL** blank. Click **Register**.



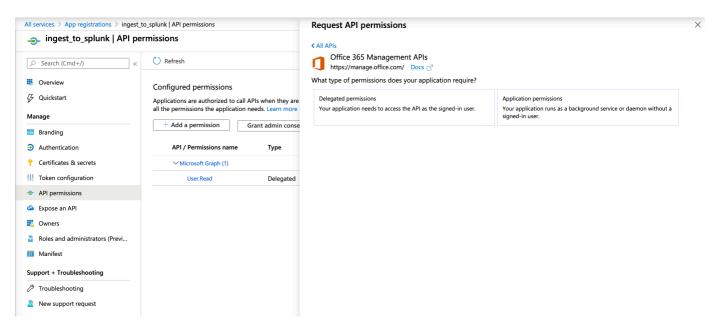
5) Once registration is complete, you will see the registration summary. Copy the Application (client) ID and Directory (tenant) ID. You will need them when configuring Splunk.



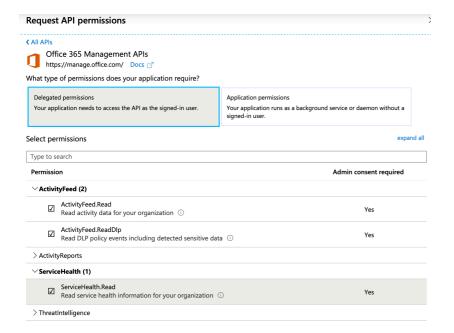
6) On the app you just registered, go to **Certificates & secrets > New Client Secret >** put a description and expiration period > click **Add**. A client secret value will appear. Copy it. This is needed later when configuring Splunk.



7) Now go to API Permissions > click Add a permission > select API my organization uses. Search for "Office 365" and when the search result is shown, click Office 365 Management APIs.



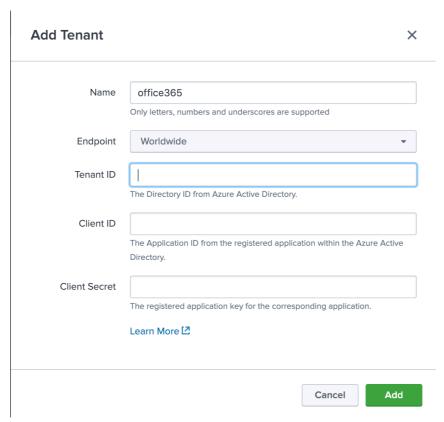
- 8) For both **Delegated permissions** and **Application permissions**, assign the same permissions below:
 - ActivityFeed > ActivityFeed.Read
 - [Optional] ActivityFeed > ActivityFeed.ReadDlp
 - Service Health > ServiceHealth.Read



9) Grant admin consent when requested.

The Azure / Office 365 configuration is now complete. The remaining steps are to be performed on the Splunk side (see next page).

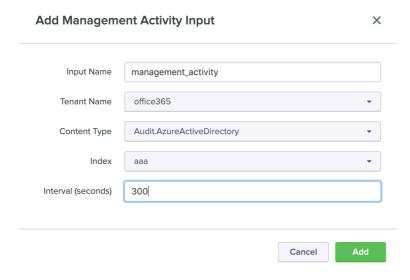
- 10) Launch your web browser and point to the Splunk node where **Splunk Add-on for Microsoft Office 365** is to be configured.
- 11) Install the add-on if you have not done so. Note:
 - Installation method depends on the Splunk role and whether it is clustered or not
 - Splunk service will need to be restarted after installing this add-on.
- 12) Go to the **Splunk Add-on for Microsoft Office 365** page and click **Tenant** tab. Add the Tenant information using the **Tenant ID**, **Client ID**, and **Client Secret** noted earlier. Click **Add**.



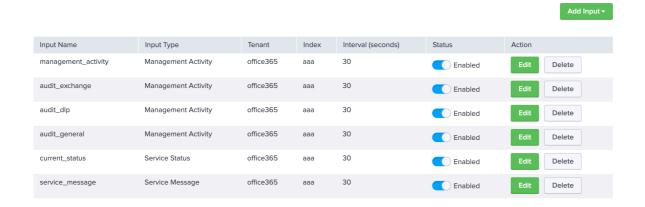
- 13) If proxy configuration is required, go to the **Settings** tab and configure it.
- 14) Once **tenant** and **proxy** (*optional*) are configured, go to the **Input** tab and enable the inputs as required.



For example:

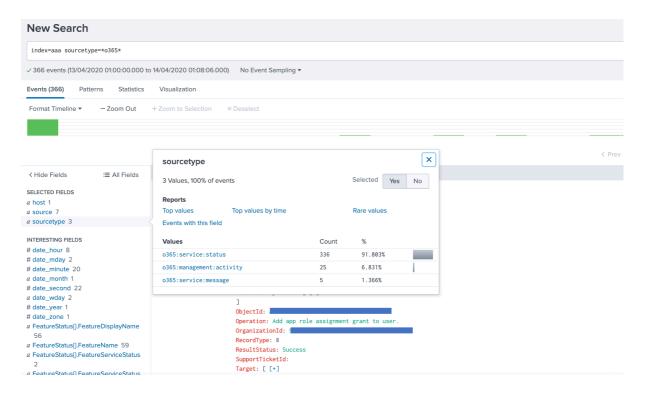


- 15) By default, the data is fetched every 300 seconds. You can adjust the interval as required.
- 16) Below example shows a couple of enabled inputs:



17) Wait for at least the interval period before checking whether the data has been ingested. After that, you can simply search the data to confirm whether it has been indexed successfully.

Using the above example, the data is stored in the index "aaa". This SPL then shows the data has been indexed successfully: **index=aaa sourcetype=*o365***



18) Basic troubleshooting questions:

- Where are the logs located? /opt/splunk/var/log/splunk. Search for all *o365* files.
- How do I increase the logging detail?
 From the Splunk Web UI, go to the Splunk Add-on for Microsoft Office 365 page
 Settings tab > Logging > set the log level to: DEBUG > click Save.
- Why is Splunk not ingesting my Office 365 audit data?
 - From Splunk side: Check the logs for any errors.
 - From Office 365 side: Ensure Office 365 auditing is enabled. Steps can be found in: https://support.microsoft.com/en-au/help/4026501/office-auditing-in-office-365-for-admins
- I have 90 days' worth of audit data, why is Splunk only ingesting data from the past 7 days?

This restriction is imposed by the Office 365 Management API. Reference: https://docs.microsoft.com/en-us/office/office-365-management-api/office-365-management-activity-api-faq

https://docs.microsoft.com/en-us/office/office-365-management-api/office-365-management-activity-api-reference

As a workaround, you can export the audit data from the Office 365 Security & Compliance portal (into a CSV file) and ingest the data manually.