

# MS Teams Cloud Collector Build

Jan 14, 2022

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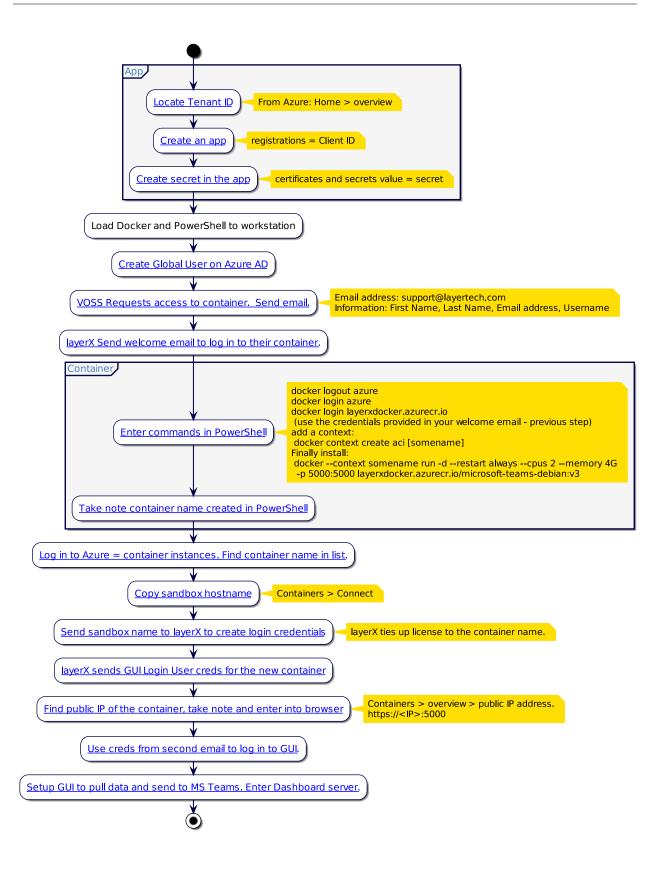
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1. High Level Build process



### 2. Port Information

Please make sure that the following ports are open on the corresponding firewalls:

Rule	From Device	To Device	Direc- tion	Pro- to- col	Port Number
1	Cloud collector agent (IP: Any) *	Cloud Microsoft APIs (IP: Any)	Uni- direc- tional	TCP	443 (En- crypted)
2	Cloud collector agent (IP: Any) *	VOSS Dashboard Server (IP: Defined by the client)	Uni- direc- tional	TCP	5432 (En- crypted)
3	Cloud collector agent (IP: Any) * / **	VOSS License Server (IP: 13.86.4.217)	Uni- direc- tional	TCP	443 (En- crypted)
4	Cloud collector agent (IP: Any) * / **	VOSS Cloud Backup Server (IP: 40.86.94.9)	Uni- direc- tional	TCP	22 (En- crypted)
5	Administrative portal users of the cloud collector (IP: Any)	Cloud collector agent (IP: Defined by the client) *	Uni- direc- tional	TCP	443 (En- crypted)

### Prerequisites:

- · Build dashboard server and have the IP address to hand
- · Open up ports between the dashboard server and the Azure cloud collector
- · Build Azure AD global reader account
- Build App

Please create a dedicated user account on your Microsoft Admin Portal with "Global Reader" privileges.

See details in the Microsoft 365 documentation

VOSS agent will be using this account to collect the information it needs to display the historical Microsoft Teams call details. For further support, please contact the VOSS Team.

 Please register your VOSS agent as an app on your Azure portal using details provided by Microsoft.

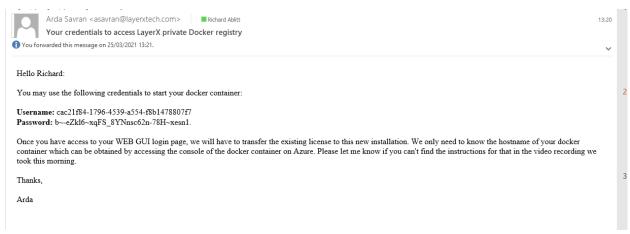
See details in the Microsoft Quickstart

VOSS agent will be using this account to collect the information it needs to display Microsoft 365 service health status and incidents. For further support, please contact the VOSS Team.

- You will need your Azure admin portal login details and VOSS provided credentials to install the Azure Container Instance in the relevant ACI context.
- Please contact VOSS support to get your cloud agent access package before any configuration.
   This package should include:
  - \* Access link to your VOSS Cloud Agent Webapp via a WEB portal.
  - \* A set of credentials to access your VOSS Cloud Agent Webapp via a WEB portal.
- An encrypted import module file to enable some of the internal features of the agent.

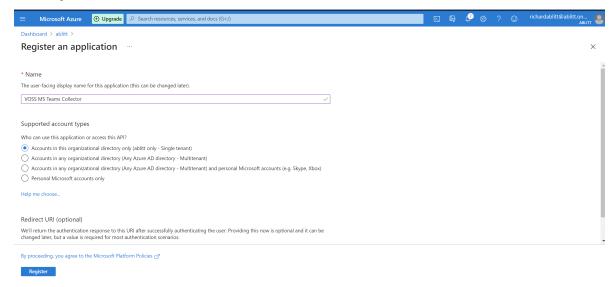
## 3. Send email to get Lx Container log in details

Send an email to LX to get the Username and password to be able to log in to get the docker container image.



## 4. Create an app in Azure

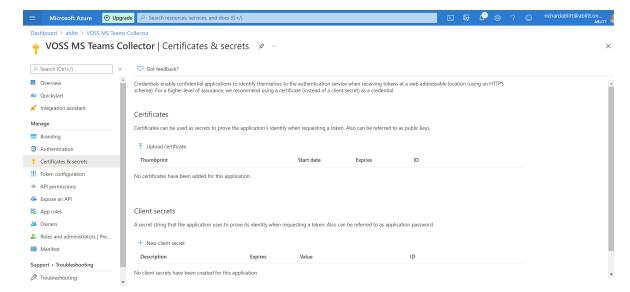
- 1. Microsoft Azure > App registrations
- 2. +New Registration
- 3. Give it a name
- 4. Select the access type (Used Single Tenant)
- 5. Click register



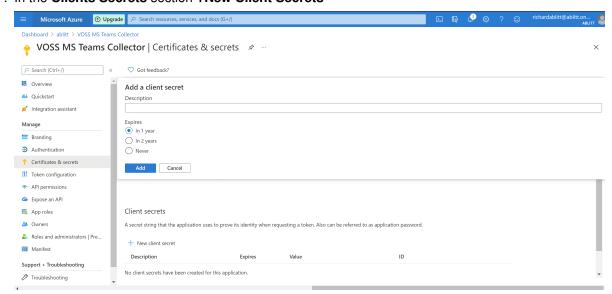
### Take note of the following details

Application (client) ID	46828bda-ca72-4dbf-b20e-f0ba72bdfe7f
Directory (tenant) ID	c85200ba-cf50-48e8-91f1-0c0805f1c9dc

6. In the app just created Go to Navigate > Certificates and Secrets

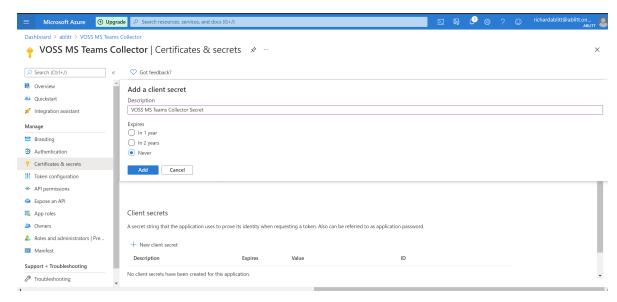


7. In the Clients Secrets section +New Client Secrets

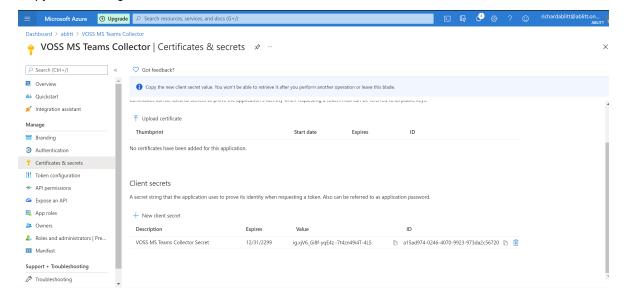


Give the secret a description

8. Choose expire (if 1 or 2 years this will need to be added and renewed



9. Copy the value against the new secret created

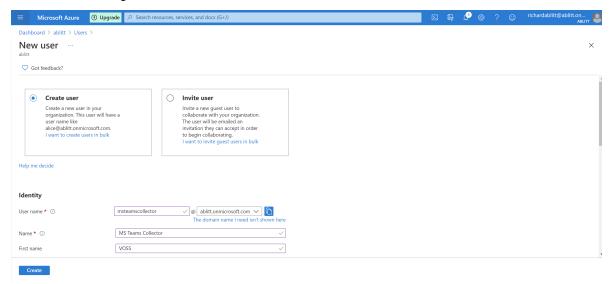


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### 5. Create a User

- 1. Azure Active directory > Users
- 2. + New user

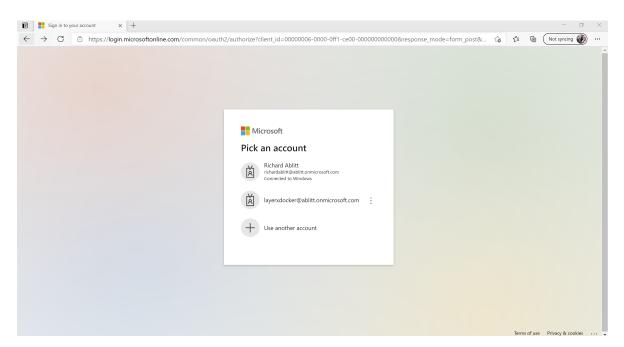
Fill out the following:



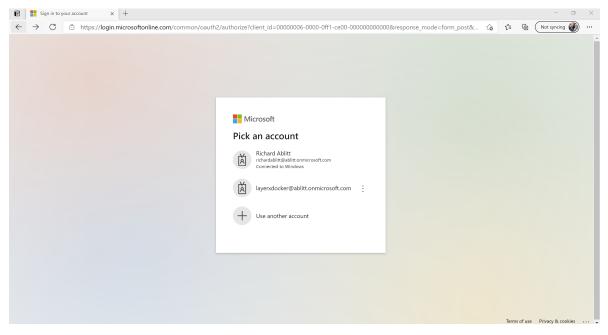
- Username
- Name
- · First Name
- · Last Name
- Let Me create the password > Enter a password
- Group = Company specific (left blank in lab)
- Roles = Global Reader

### Select Create

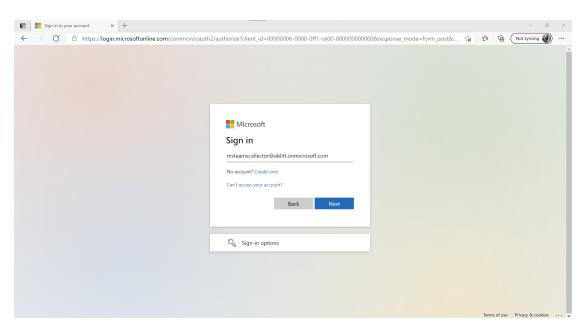
 The user needs to log in once to change the password for the first time and verfify Admin Navigate to http://admin.microsoft.com/



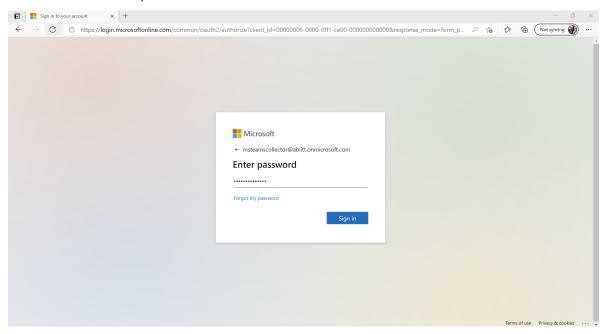
4. Use another account



5. Enter global reader account created

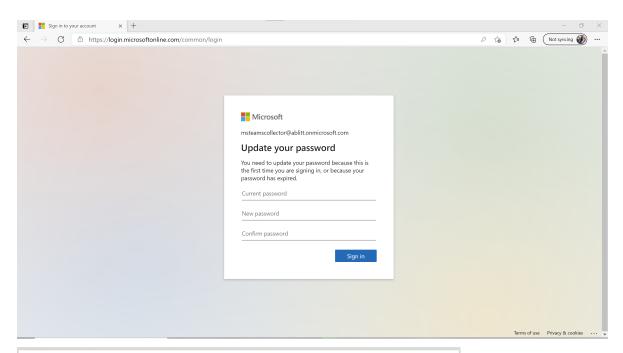


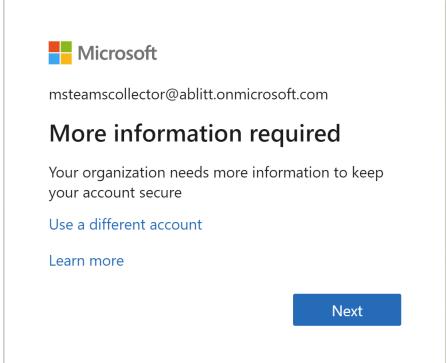
6. Select Next and enter password



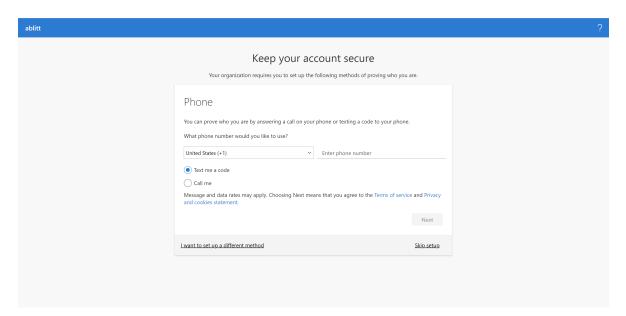
7. Enter password and create a new password

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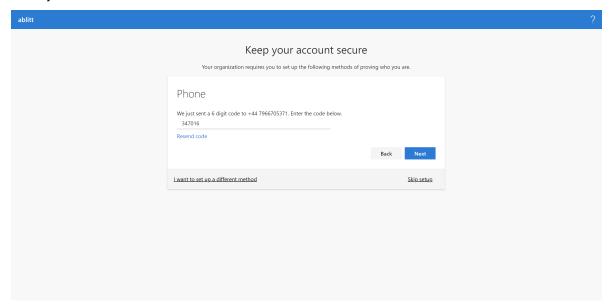




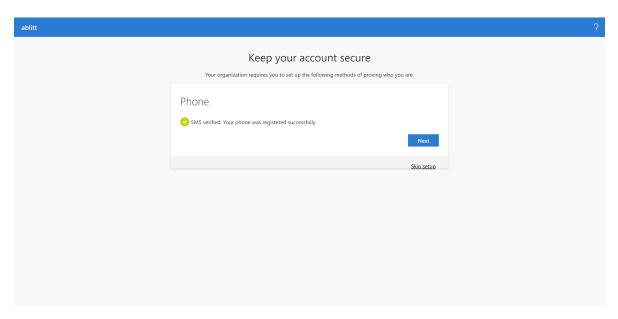
Don't skip this otherwise you cant use it in the collector



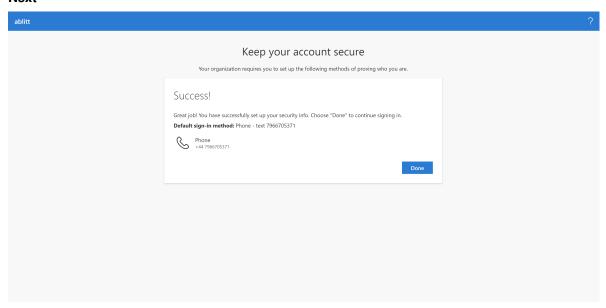
8. Once you have received a text with the code enter it into the box



Next

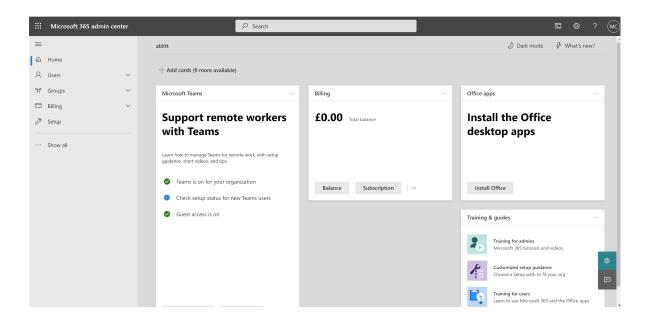


### Next



Done

9. Successfully logged in



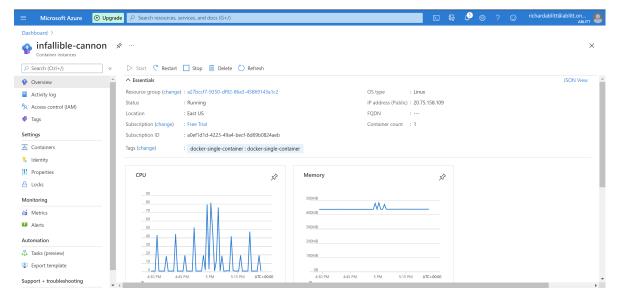
### 5.1. General steps

- · Email to get welcome email with log in details
- Load Docker and load Powershell on the user workstation.

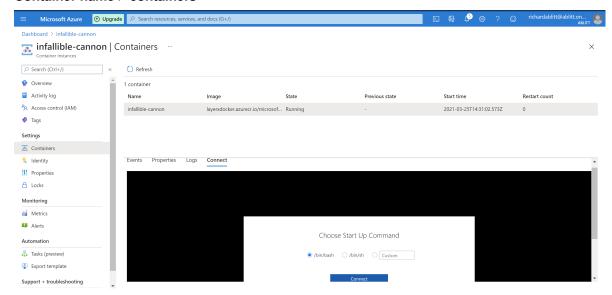
These have to be loaded and connected before commands can be run.

### 5.2. Build Container

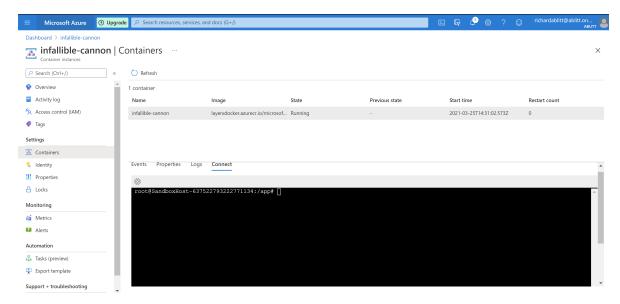
- 1. Navigate to Azure > Container Instances
- 2. Find container name created in power shell and select it
- 3. Take note of the public IP



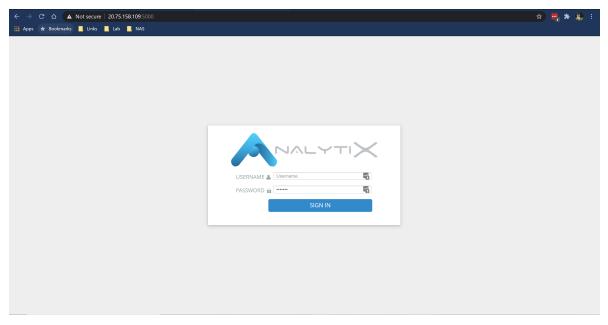
### Container name > containers



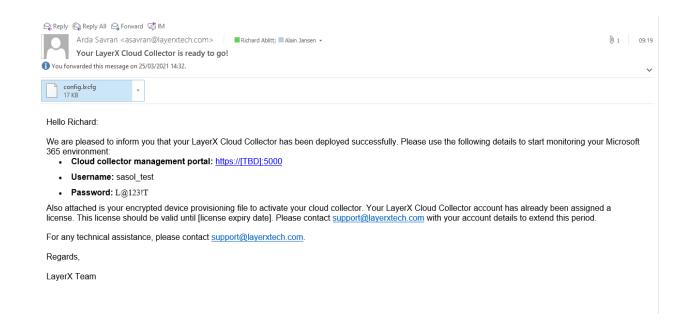
### 4. Click connect



- 5. Take the sandbox name and email to Lx to get a user create and associated for logging in to the GUI
- 6. Open a New tab: https://<container public IP:5000>
- 7. Await the email for user details
- 8. Log in to the GUI



# 6. GUI login user email request



### 7. Azure Container Instance Specification

Following are the minimum technical specifications for a VOSS Cloud

Collector in Azure ACI:

2xCPU and 4Gig RAM with NO persistent storage.

To build the Azure ACI using docker:

- Reference the Docker Docs for further information.
- If you have docker installed on your Mac or PC or just installed docker, follow the steps below:
  - 1. docker logout azure
  - 2. **docker login azure** (Follow the on screen instructions and use your admin creds)
  - 3. docker login layerxdocker.azurecr.io (use the creds provided in your welcome email)
  - 4. Optional step if your don't have a Azure context built or as instructed by your Azure Sysadmin.
  - To add a context. docker context create aci [somename]
  - Follow on screen instructions
  - Finally install and run your CI by typing the syntax below no quotes

```
docker --context somename run -d --restart always --cpus 2 --memory 4G -p_ 
-- 5000:5000 layerxdocker.azurecr.io/microsoft-teams-debian:v3
```

Log in into your admin portal using the web browser and confirm ACI is present and running.

# 8. Configuration Steps

- 1. Use your web browser to go to your VOSS Agent's management portal.
- 2. Log in with the credentials provided by the VOSS support Team:

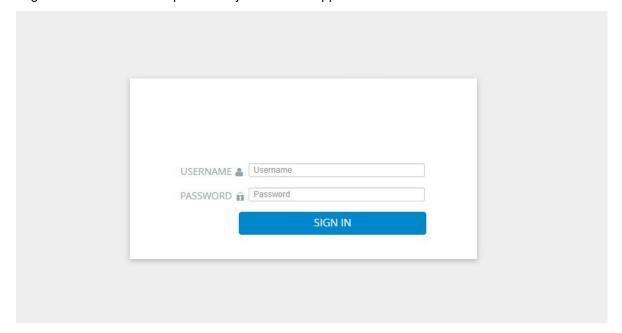


Figure 1 - VOSS Agent login screen

3. Click on the menu button on the top right corner and select **Data Sources**:

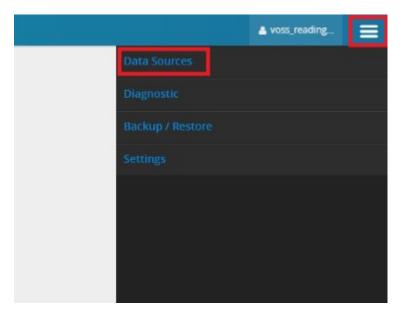


Figure 2 - VOSS Agent data source configuration

This will direct you to the data source configuration page.

- 4. Click on the blue + sign on the top left corner to create a new data source.
- 5. On the next screen, please choose the **vendor** and **type** as "Microsoft" and "Microsoft Teams Connector" respectively; give your data source a name, and click on the **Next** button:

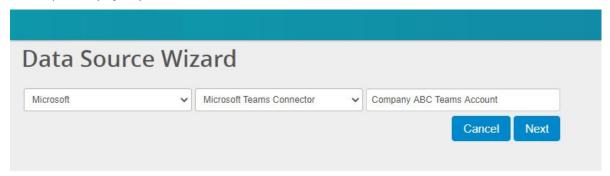


Figure 3 - VOSS Agent data source configuration for Microsoft Teams

- 6. On the next screen, choose the newly defined data source, and click on **Edit**. This will enable the corresponding database and API configuration menus. Start with the Data API configuration. Enter the following:
  - Data Source Name: This is a description of your data source.
  - Enable/Disable checkbox: Make sure that this checkbox is checked for successful data collection.
  - Username: Enter the username for the "Global Reader" account that was generated on the Microsoft Admin Portal as part of the prerequisites for this guide.
  - Password: Enter the password for the "Global Reader" account that was generated on the Microsoft Admin Portal as part of the prerequisites for this guide.

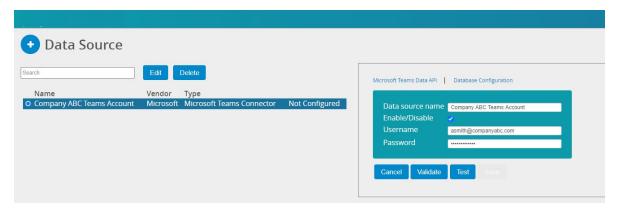


Figure 4 - VOSS Agent Microsoft API configuration for Teams

- 7. Click on the Validate button which validates that all the required values are entered.
- 8. Click on the Test button which checks your Microsoft "Global Reader" account access.
- 9. Click on the **Save** button to finalize the API configuration.

#### Note:

- The Save button will not be available until you validate your configuration and test it against the Microsoft API.
- Depending on the network connection speed that is available to VOSS Cloud Collector, the "Test" phase may take up to a minute.
- 10. Click on the **Database Configuration** tab for the same data source profile. This is where you enter the connection details for a VOSS Dashboard Server which will host your collected data.
- 11. From the drop-down menu, select "Reporter DB".
- 12. Enter the IP address for the VOSS Dashboard Server.
- 13. "Retry Delay" is used to determine how long to wait before attempting to connect to the Dashboard Server Database after a failed connection. You may leave this attribute as is.

**Note:** VOSS Collector uses an encrypted channel to upload the processed data to VOSS Dashboard Server. This is a unidirectional connection that is initiated by the VOSS Collector using port TCP/5432. In case, you have a firewall/NAT device between the VOSS Collector and your Dashboard Server, please ensure that you make the necessary changes on your network to allow this incoming traffic thru the firewall/NAT device. If the collector is hosted by VOSS, our support team can provide the specific public IP address that the incoming connection attempts will be coming from.

- 14. Click on the Validate button which validates the values entered.
- 15. Click on the **Test** button which checks the connectivity to VOSS Dashboard Server.
- 16. Click on the "Save" button to finalize the database configuration.



Figure 5 - VOSS Agent database configuration

At this point, we completed the configuration that is needed to collect and process Microsoft Teams data. The next step is to create a data source to collect the service health details.

- 17. Click on the blue + sign on the top left corner again to create a new data source.
- 18. On the next screen, please choose the **vendor** and **type** as "Microsoft" and "Microsoft Teams Connector" respectively; give your data source a name, and click on the **Next** button:

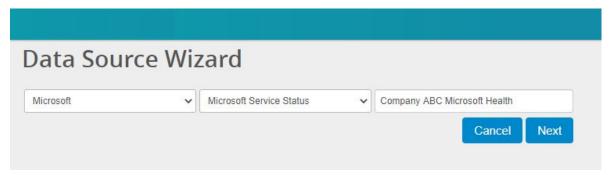


Figure 6 - VOSS Agent data source configuration for Microsoft Health Status

- 19. On the next screen, choose the newly defined data source, and click on Edit. This will enable the corresponding database and API configuration menus. Start with the Status API configuration. Enter the following:
  - Data Source Name: This is a description of your data source.
  - Enable/Disable checkbox: Make sure that this checkbox is checked for successful data collection.
  - Client ID: The client ID that you created during application registration.
  - · Client Secret: The client secret that you created during application registration.
  - Tenant ID: The tenant ID that is assigned to your Microsoft Azure account.

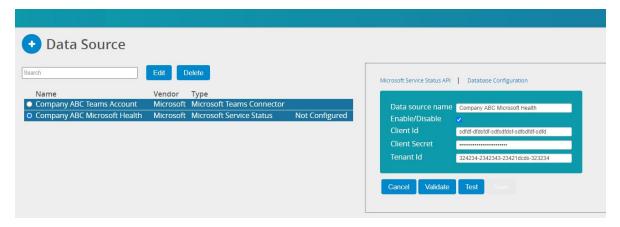


Figure 7 - VOSS Agent Microsoft API configuration for Teams

- 20. Click on the Validate button which validates that all the required values are entered.
- 21. Click on the **Test** button which checks for successful authentication with the Microsoft API.
- 22. Click on the Save button to finalize the API configuration.

#### Note:

- The Save button will not be available until you validate your configuration and test it against the Microsoft API.
- Depending on the network connection speed that is available to VOSS Cloud Collector, the "Test" phase may take up to a minute.
- 23. Click on the **Database Configuration** tab for the same data source profile. This is where you enter the connection details for a VOSS Dashboard Server which will host your collected data.
- 24. From the drop-down menu, select Reporter DB.
- 25. Enter the IP address for the VOSS Dashboard Server.
- 26. "Retry Delay" is used to determine how long to wait before attempting to connect to the Dashboard Server Database after a failed connection. You may leave this attribute as is.

At this point, we completed the configuration that is needed to collect and process Microsoft 365 Health and Incident data. Your VOSS Cloud collector is already collecting data.

There is only one more step remaining before you can start seeing some data on your dashboards. The module file that configures all the services and features internally for your needs to be imported to your cloud collector.

### 8.1. Import the module file

The final step is to import the module file that enables the internal features needed to start the collection.

1. Click on your username on the top right corner and choose the **Configuration** menu:

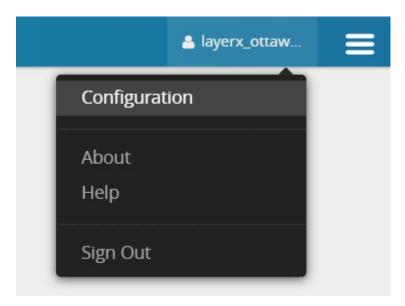


Figure 6 - VOSS Agent import module

- 2. Click on the Choose File button and locate the import file that you received from VOSS.
- 3. Click on the **Upload and Check** button.

Note: The import process will not work unless the API and database configurations are complete.

4. Click on the **Deploy** button to complete the import:

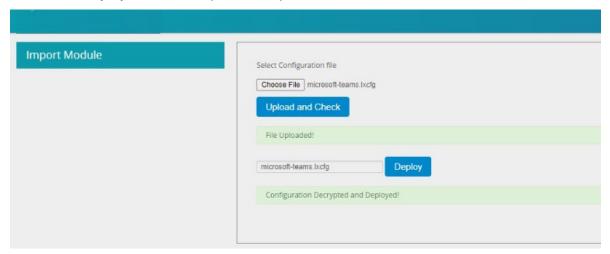


Figure 7 - VOSS Agent module deployment

5. The configuration of the agent is now complete. Please proceed to your Dashboard server and locate your corresponding Microsoft Teams dashboards.

### 9. Solutions to Basic Installation Challenges

In this section, a few basic issues and solutions for them will be covered. If the offered solutions do not work, please contact VOSS Support Team.

Note: When you contact VOSS Support, always include the following details in your request:

- · Your username to login to your cloud collector.
- · Screenshots of the issue.
- Diagnostic log files available on WEB GUI.

# 9.1. Issue #1: You cannot log in to your cloud collector's WEB GUI with your credentials.

#### Solutions:

- Please check your credentials. Try to enter them manually instead of copying and pasting them from somewhere.
- Contact VOSS support and have your credentials validated for a potential typo or license expiry.

# 9.2. Issue #2: You cannot connect a data source profile to the Dashboard Server.

### Solutions:

- Please confirm that TCP port 5432 is open between your cloud collector and Dashboard Server.
- Please confirm that your Dashboard server is on SP63 or later. If that is not the case, it should be
  patched by the VOSS Support Team to support Microsoft 365 dashboards.

# 9.3. Issue #3: You cannot connect to your cloud collector's login page at all.

### Solutions:

• Contact VOSS support to verify any unexpected service issues.

9.4. Issue #4: You created your "Microsoft Health" successfully but you are not able to see any data on your "Service Health Status" dashboards.

### Solutions:

 Please confirm that you have the correct permissions assigned to the application you created on the Azure portal for the cloud collector. To collect service health status, the "ServiceHealth.Read.All" permission has to be assigned to the application.