infoblox.

DEPLOYMENT GUIDE

Infoblox Integration with ThreatConnect

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Introduction

TAXII stands for Trusted Automated eXchange of Indicator Information. Trusted Automated eXchange of Indicator Information (TAXII™) is a U.S. Department of Homeland Security (DHS)-led, community-driven effort to standardize the trusted, automated exchange of cyber threat information. TAXII defines a set of services and message exchanges that, when implemented, enable sharing of actionable cyber threat information across organization and product/service boundaries for the detection, prevention, and mitigation of cyber threats. TAXII is not a specific information sharing initiative, and it does not define trust agreements, governance, or non-technical aspects of cyber threat information sharing. Instead, TAXII empowers organizations to achieve improved situational awareness about emerging threats, and enables organizations to easily share the information they choose with the partners they choose, while leveraging existing relationships and systems.

The integration with ThreatConnect provides the ability to download malicious information from a TAXII client in the form of IP addresses and domain names. This deployment guide shows you how to configure your Infoblox Grid to receive TAXII transmissions from ThreatConnect.

Supported Platforms

The TAXII integration is supported on the following Infoblox appliances: IB-1410, IB-1415, IB-1420, IB-1425, IB-VM-1410, IB-VM-1415, IB-VM-1420, IB-VM-1425, TE-810, TE-815, TE-2210, TE-2215, TE-2220, TE-2215, IB-VM-4010, IB-4030, IB-4030-10GE, IB-VM-2220, IB-VM-2225, PT-1400, PT-2200, PT-4000, and PT-4000-10GE.

Prerequisites

The following prerequisites are required for the solution:

- Infoblox Grid or stand-alone Grid Master running NIOS 7.3 or higher with the following licenses:
 - Security Ecosystem License
 - o DNS
 - o RPZ
- ThreatConnect instance access:
 - User with Organization Administrator permissions

Known Limitations

As of NIOS 8.5.1, only Host and IP indicators can be synchronized from ThreatConnect to Infoblox. In order to receive TAXII transmissions from ThreatConnect, the Infoblox Grid Master's LAN or MGMT port must be reachable on a publicly routable IP, or a publicly resolvable URL.

Configuration

Workflow

Infoblox

- 1. Verify that the correct licenses are installed on NIOS, and install any that are missing:
 - o Security Ecosystem
 - o DNS
 - o RPZ
- 2. Enable the TAXII service
- 3. Create a TAXII enabled user group
- 4. Create a new TAXII enabled Admin Group and a new Admin
- 5. Create a Response Policy Zone
- 6. Assign a Response Policy Zone to sync with ThreatConnect

ThreatConnect

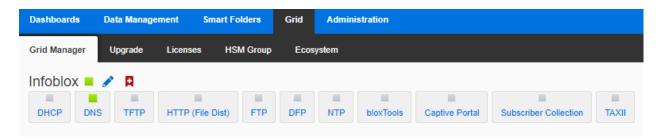
- 1. Create a new Outbound TAXII exchange
- 2. Test the configuration

Infoblox Configuration

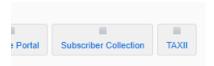
Enable the TAXII service

To enable the TAXII service perform the following steps:

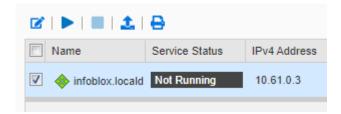
1. On the Web interface of the Infoblox Grid, navigate to $\mathbf{Grid} \rightarrow \mathbf{Grid}$ Manager.



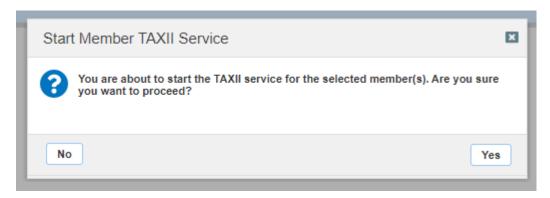
2. Click the TAXII box in the list of services.



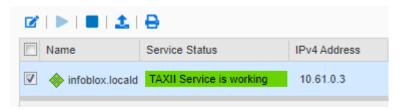
3. Click the **checkbox** associated with the Grid Master.



- 4. Click the Start Icon.
- 5. In the Start Member TAXII Service dialog box, click Yes.



6. Wait 2-3 minutes then **Refresh** the page. After the page has refreshed, verify that the TAXII service is running.



Create an Admin with TAXII access

To an Admin with TAXII access perform the following steps:

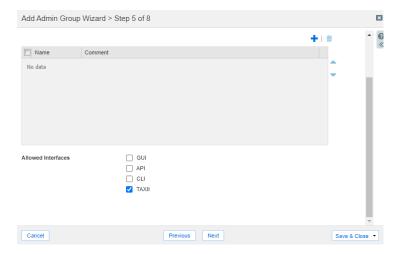
On the Web interface of the Infoblox Grid, navigate to Administration → Administrators →
Groups.



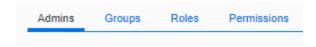
- 2. Click the **Add** icon located above the list of Admin Groups.
- 3. Give the Admin Group a relevant Name.



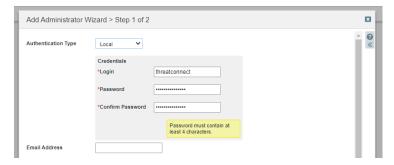
- 4. Click Next until you reach Step 5 of the Add Admin Group Wizard.
- 5. Near the bottom of the Add Admin Group Wizard, click the checkbox associated with TAXII and ensure that all other interfaces are unchecked.



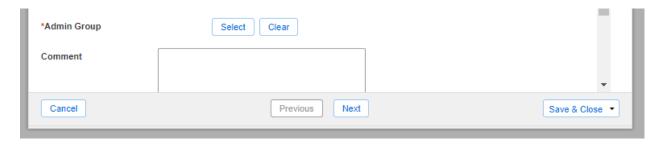
- 6. Click Save & Close to confirm the creation of the Admin Group.
- 7. Click the **Admins** tab.



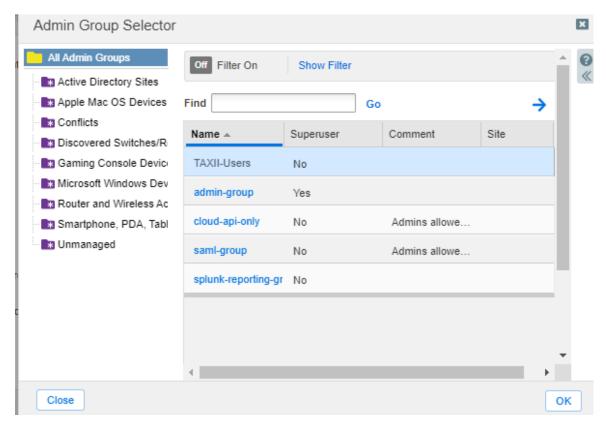
- 8. Click the Add icon located above the list of Admins.
- 9. In the Add Administrator Wizard, give the new Administrator a Login, a Password, and Confirm the Password.



10. On the same step of the Add Administrator Wizard, click the **Select** button that is associated with Admin Group.



11. Locate and Select the Admin Group that was created on pages 4, 5 and 6. Then, Click **OK** to confirm the selection.

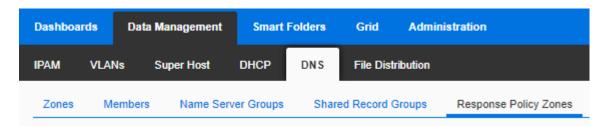


12. Click Save & Close to confirm the creation of the new Admin.

Create a Response Policy Zone

To create a Response Policy Zone perform the following steps:

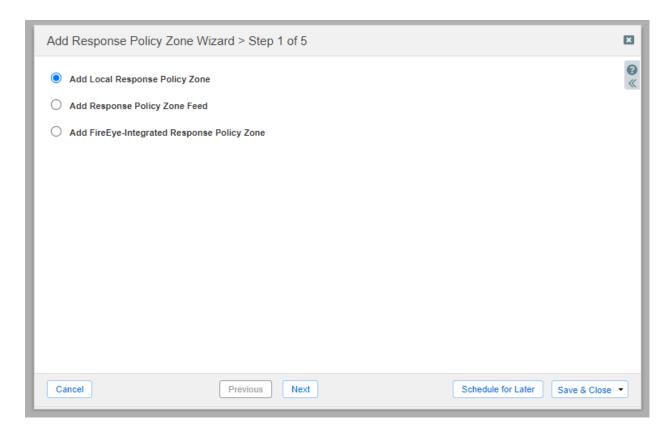
1. On the Web interface of the Infoblox Grid, navigate to **Data Management** → **DNS** → **Response Policy Zone.**



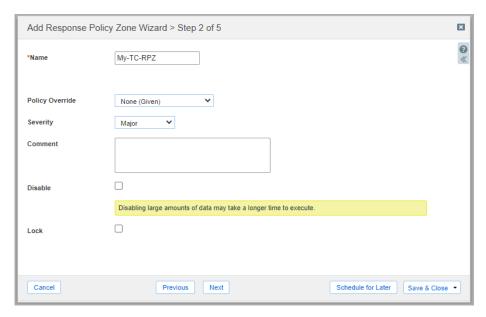
2. Click the **Add** icon located above the list of Response Policy Zones.



3. Click the Add Local Response Policy Zone bubble. Then, click Next.



4. Give the Response Policy Zone a Name and set all relevant parameters. Then, click Next.



5. Click the Use this set of name servers bubble.



- 6. Click the Add icon.
- 7. Click **Select** to select the correct name server that this Response Policy Zone will apply to. Then, click the **Add** button to confirm the selection.



8. Click Save & Close to confirm the creation of the new Response Policy Zone.

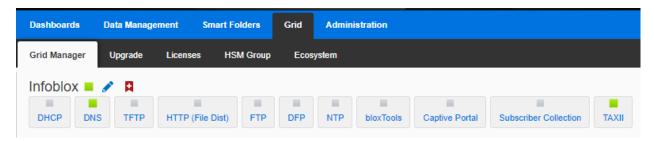


9. When prompted, restart all relevant services by clicking **Restart** located on the banner at the top.

Assign a Response Policy Zone to Sync with ThreatConnect

To assign a Response Policy Zone to sync with ThreatConnect perform the following steps:

1. On the Web interface of the Infoblox Grid, navigate to $Grid \rightarrow Grid Manager$.



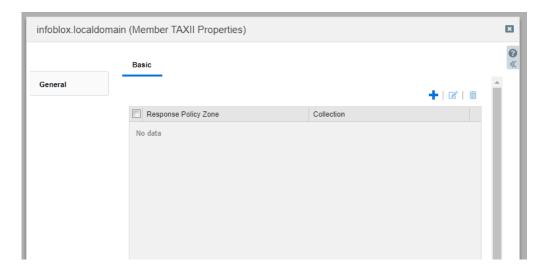
2. Click the **TAXII** box in the list of services.



3. Click the checkbox associated with the grid member that is currently running the TAXII service. Then, Click the **Edit** icon located above the table of members.



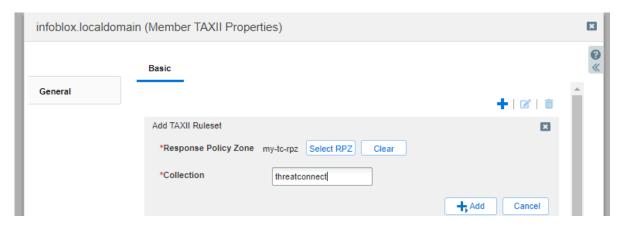
4. In the Member TAXII Properties window that is revealed, click the **Add** icon located above the list of Response Policy Zones.



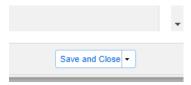
5. Click **Select RPZ** and select the relevant RPZ that was created earlier.



6. Input the name of a Collection that will be acquired from ThreatConnect. Then, click **Add**. Note: Only use valid URI characters for the collection name.



7. Click **Save and Close** to confirm all changes.

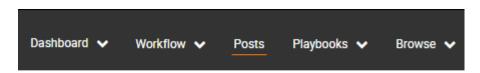


ThreatConnect Configuration

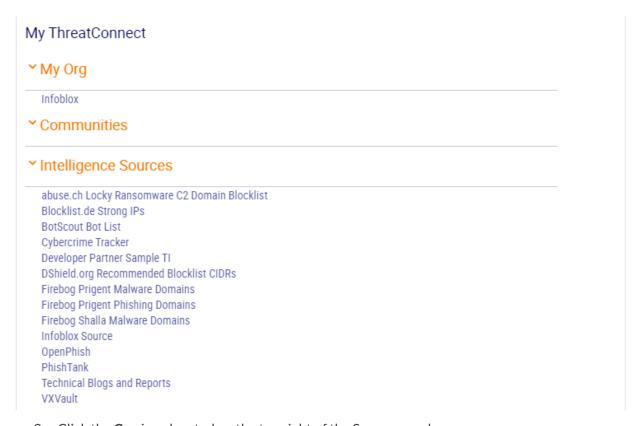
Create an Outbound TAXII Exchange

To Create an Outbound TAXII Exchange on ThreatConnect, perform the following steps:

1. Log in to your instance of ThreatConnect. Then, click **Posts** located on the top right of the ThreatConnect window.



2. Click the **Source** associated with your Org. Note: In the example screenshot the Org is Infoblox, and the associated Org is Infoblox Source.



3. Click the **Cog** icon located on the top right of the Source panel.



4. Click **Data** in the navigation bar at the top of the screen.

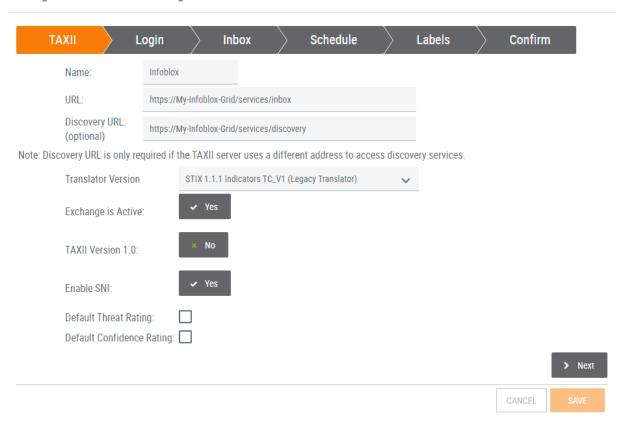


5. Click the **New Outbound** button located under the TAXII Exchanges header.

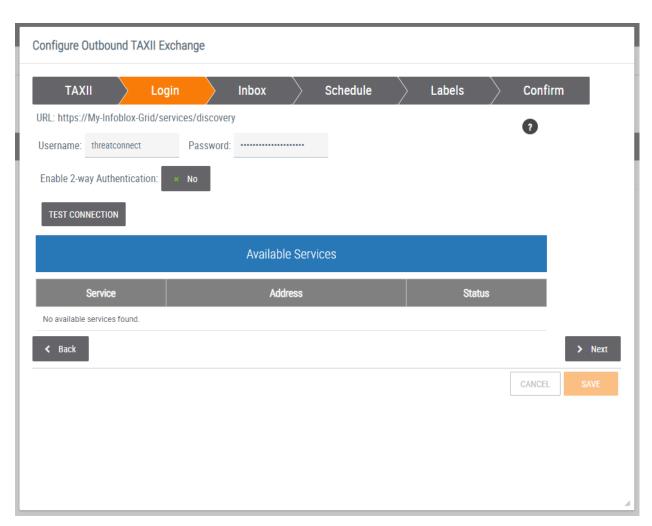


6. On the Configure Outbound TAXII Exchange window that is revealed, input the following information:

Configure Outbound TAXII Exchange



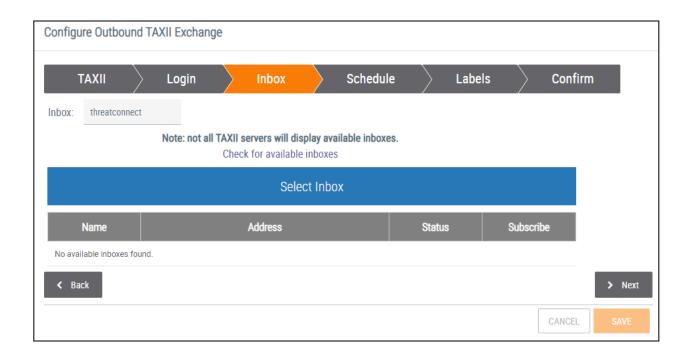
- o Name: Input a relevant name for this Outbound TAXII Exchange.
- URL: Input the URL for your Infoblox Grid. Note: This IP must be reachable by ThreatConnect.
 The IP must be associated with your Grid Masters MGMT or LAN interface with the URL format of http, or https://:<Your-Infoblox-Grid-IP-Here>/services/inbox.
- (Optional) Discovery URL: Input the URL for your Infoblox Grid to be used for Discovering TAXII related information on your Infoblox Grid. Note: This IP must be reachable by ThreatConnect.
 The IP must be associated with your Grid Masters MGMT or LAN interface with the URL format of http, or https://:<Your-Infoblox-Grid-IP-Here>/services/discovery.
- o (Optional) **Translator version**: If desired, you may change the Translator Version.
- 7. Keep all other settings as their defaults. Then, click **Next**.
- 8. Input the Username and Password of the TAXII admin that was created on page 4 of this document.



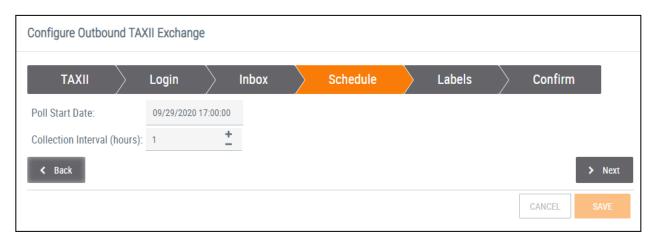
9. (Optional) If desired, click the **Test Connection** button to confirm that ThreatConnect can reach your Infoblox Grid.



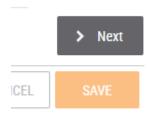
- 10. Click Next.
- 11. Input an Inbox. Note: this value should correspond to the Collection that was assigned in Infoblox on <u>pages 9 and 10</u>.



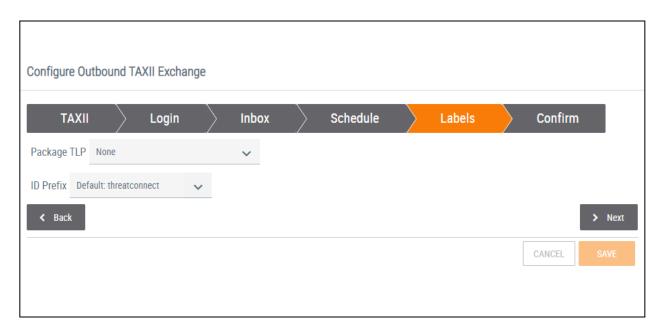
12. (Optional) If desired, change the **Poll Start** date, and the interval at which data is transferred.



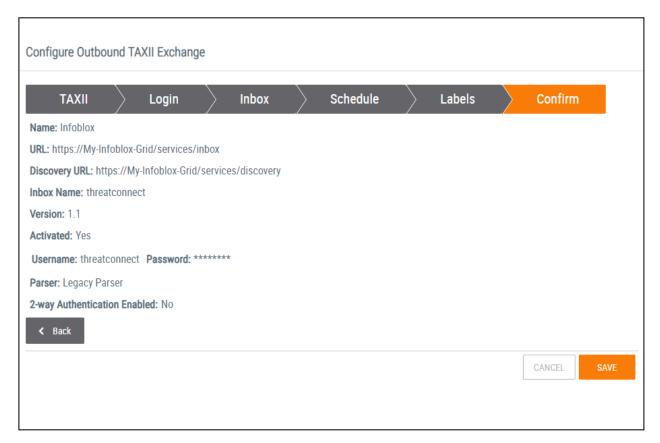
13. Click Next.



14. Keep all settings as their defaults and click Next.



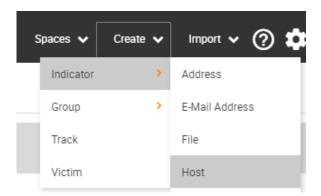
15. Verify that all settings are correct, then click **Save**.



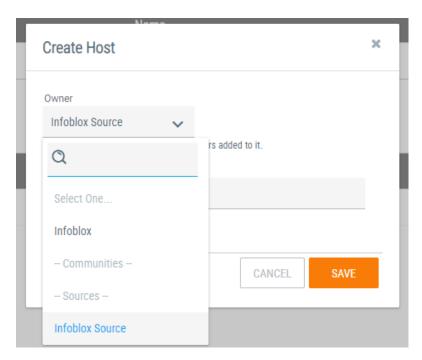
Test the configuration

To test the communication between ThreatConnect and Infoblox, perform the following steps:

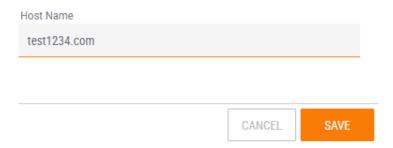
1. On the top right of the ThreatConnect webpage, click **Create**. Then highlight Indicator. Finally, click **Host**.



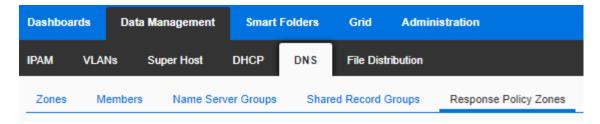
2. Click the **drop-down** associated with the Owner. Change the Owner to your Org's Source. Note: In the example screenshot the Org is Infoblox, and the source is Infoblox Source.



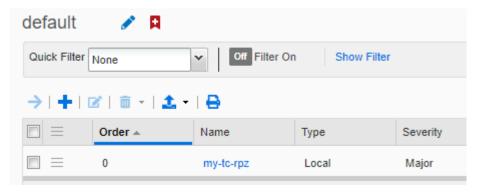
3. In the Host Name text field, input an example domain name. Then, click Save.



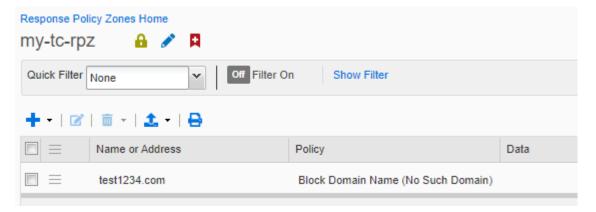
4. On the Infoblox Grid, Navigate to **Data Management** → **DNS** → **Response Policy Zones**.



5. Access the Response Policy Zone that was assigned to sync with ThreatConnect.



6. Inside the Response Policy Zone you will see the Host address that was added on ThreatConnect.



Additional Resources

For more information regarding Infoblox or ThreatConnect, access these websites:

- 1. Infoblox Documentation Portal
- 2. Infoblox Website
- 3. <u>Infoblox Community</u>
- 4. ThreatConnect Website



Infoblox unites networking and security to deliver unmatched performance and protection. Trusted by Fortune 100 companies and emerging innovators, we provide real-time visibility and control over who and what connects to your network, so your organization runs faster and stops threats earlier.

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