ThreatQuotient

Infoblox Grid Action Bundle

Version 1.0.1

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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.0.1
Compatible with ThreatQ Versions	>= 5.25.0
ThreatQ TQO License Required	Yes
Support Tier	ThreatQ Supported

Introduction

The Infoblox Grid Action Bundle allows the management of entries in Response Policy Zone (RPZ) zones.

The bundle provides the following actions:

- **Infoblox Grid Add to RPZ** - creates records in an RPZ from ThreatQ indicators of compromise (IP, FQDN and CIDR Block).
- **Infoblox Grid Add Batch To RPZ** - adds a batch of indicators to a RPZ Zone.
- **Infoblox Grid Remove from RPZ** - deletes records from an RPZ that are no longer needed.
- **Infoblox Grid Remove Batch From RPZ** - deletes a batch of indicators from a RPZ Zone.

The actions enrich the following indicator types:

- CIDR Block
- FQDN
- IP Address

This action is intended for use with ThreatQ TDR Orchestrator (TQO). An active TQO license is required for this feature.

Prerequisites

- An active ThreatQ TDR Orchestrator (TQO) license.
- A data collection containing indicator types:
  - CIDR Block
  - FQDN
  - IP Address
- An Infoblox instance, username, and password.

Installation

Perform the following steps to install the integration:

> The same steps can be used to upgrade the integration to a new version.

1. Log into https://marketplace.threatq.com/.
2. Locate and download the action zip file.
3. Navigate to the integrations management page on your ThreatQ instance.
4. Click on the **Add New Integration** button.
5. Upload the action zip file using one of the following methods:
   - Drag and drop the zip file into the dialog box
   - Select **Click to Browse** to locate the zip file on your local machine
6. Select the actions to install, when prompted, and click on Install.

   > ThreatQ will inform you if the action already exists on the platform and will require user confirmation before proceeding. ThreatQ will also inform you if the new version of the action contains changes to the user configuration. The new user configurations will overwrite the existing ones for the action and will require user confirmation before proceeding.

Your actions will now be installed on your instance. You will still need to configure the action(s).

Configuration

> ThreatQuotient does not issue API keys for third-party vendors. Contact the specific vendor to obtain API keys and other integration-related credentials.

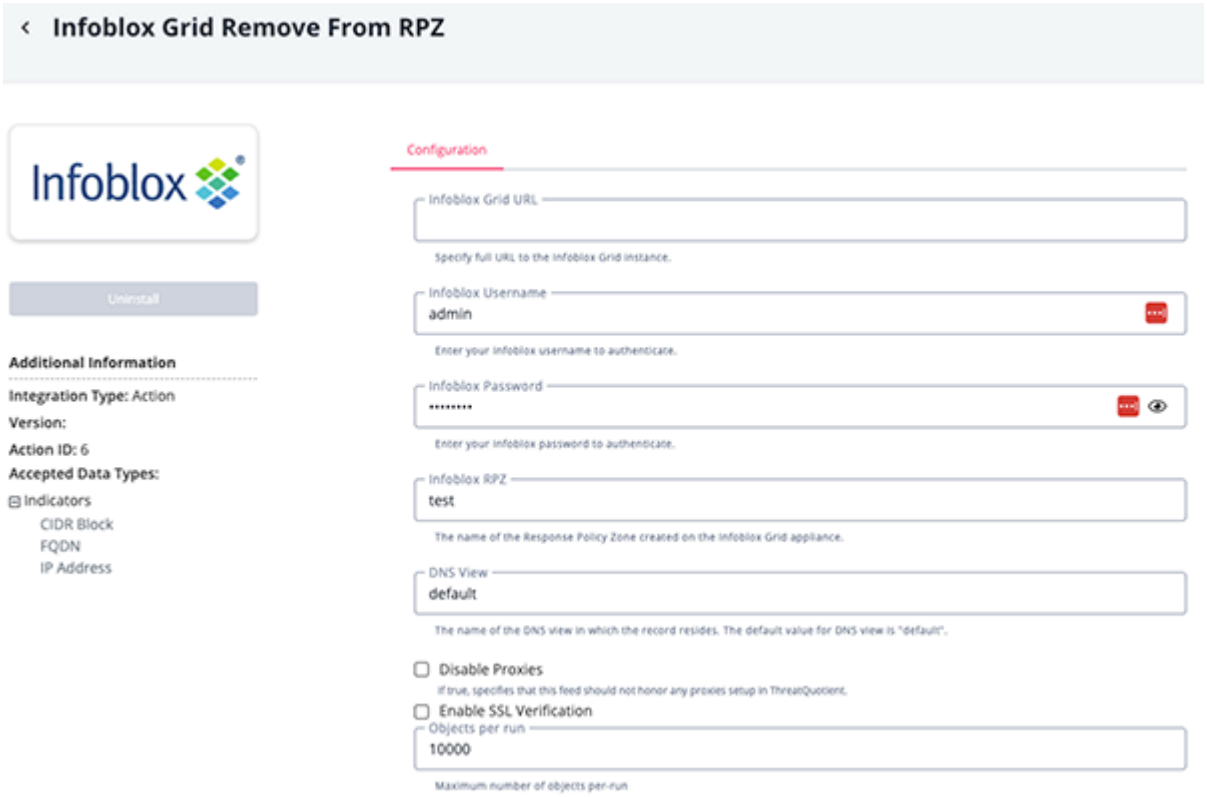
To configure the integration:

1. Navigate to your integrations management page in ThreatQ.
2. Select the **Actions** option from the *Category* dropdown (optional).
3. Click on the action entry to open its details page.
4. Enter the following parameters under the **Configuration** tab:

> The configurations set on this page will be used as the default settings when inserting this action into a new workflow. Updating the configurations on this page will not update any instances of this action that have already been deployed to a workflow. In that scenario, you must update the action's configurations within the workflow itself.

PARAMETER	DESCRIPTION
Infoblox Grid URL	Specify full URL to the Infoblox Grid instance.
Infoblox Username	Enter your Infoblox username to authenticate.
Infoblox Password	Enter your Infoblox password to authenticate.
Infoblox RPZ	The name of the Response Policy Zone created on the Infoblox Grid appliance.
DNS View	The name of the DNS view in which the record resides. The default value for DNS view is "default".
Disable Proxies	Enable or disable verification of SSL connections with the provider.
Verify Host SSL	If enabled, the action will not honor proxy settings within ThreatQ.

PARAMETER	DESCRIPTION
Objects per run	Maximum number of objects to send to Infoblox per-run.



5. Review any additional settings, make any changes if needed, and click on **Save**.

Actions

The following actions are available:

ACTION	DESCRIPTION	OBJECT TYPE	OBJECT SUBTYPE
Infoblox Grid Add To RPZ	Adds Indicators to a RPZ Zone.	Indicators	IP Address, CIDR Block, FQDN
Infoblox Grid Add Batch to RPZ	Adds a batch of indicators to a RPZ Zone.	Indicators	IP Address, CIDR Block, FQDN
Infoblox Grid Remove From RPZ	Deletes Indicators from a RPZ Zone.	Indicators	IP Address, CIDR Block, FQDN
Infoblox Grid Remove Batch from RPZ	Deletes a batch of indicators from a RPZ Zone.	Indicators	IP Address, CIDR Block, FQDN

Infoblox Grid Add to RPZ, Add Batch to RPZ

The Infoblox Grid Add to RPZ and Add Batch to RPZ actions upload the indicators from the selected collection to an existing RPZ Zone from Infoblox Grid. The indicators are added only if they do not have the attribute **Added to Infoblox RPZ** equal to user config **Infoblox RPZ**. The name of the zone must be specified in the action configuration. The action adds the attribute **Added to Infoblox RPZ** to all the exported indicators and it deletes the attribute **Removed From Infoblox RPZ** having the value equal to the specified zone.

Infoblox Grid Add To RPZ uploads the indicators sequentially. For large collections the duration of the operation is very long. **Infoblox Grid Add Batch To RPZ** uploads batches of 100 indicators. For the action **Infoblox Grid Add Batch To RPZ** if one indicator from the batch cannot be uploaded for any reason (e.g. it already exists), the entire batch is dropped.

`POST "{{INFOBLOX_URL}}/wapi/v2.12/record:rpz:cname"`

Sample Body:

```
{
  "canonical": "217.60.9.178",
  "name": "217.60.9.178.{{RPZ_NAME}}",
  "rp_zone": "{{RPZ_NAME}}",
  "disable": false,
  "view": "default"
}
```

Sample Response:

```
"record:rpz:cname/
ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LnRocmVhdHEuMTgwLjE2NC43Mi4xNDg:217.60.9.178.
{{RPZ_NAME}}/default"
```

ThreatQuotient provides the following default mapping for this action:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
N/A	Indicator.Attribute	Added to Infoblox RPZ	N/A	RPZ Name	The value is the user config `Infoblox RPZ`

> The attribute **Removed From Infoblox RPZ** is removed if it has the value equal to user config **Infoblox RPZ**.

Infoblox Grid Remove from RPZ, Remove Batch from RPZ

The Infoblox Grid Remove from RPZ action deletes the indicators from an existing RPZ Zone from Infoblox Grid. The indicators are removed only if they do not have the attribute **Removed From Infoblox RPZ** equal to user config `Infoblox RPZ`. The name of the zone must be specified in the action configuration. The action adds the attribute **Removed From Infoblox RPZ** to all the indicators from the input collection and it deletes the attribute **Added to Infoblox RPZ** having the value equal to the specified zone.

`Infoblox Grid Remove From RPZ` deleted the indicators sequentially. For large collections the duration of the operation is very long. **Infoblox Grid Remove Batch From RPZ** deleted batches of 100 indicators. For the action **Infoblox Grid Remove Batch From RPZ** if one indicator from the batch cannot be deleted for any reason (e.g. it does not exit), the entire batch is dropped.

`POST "{{INFOBLOX_URL}}/wapi/v2.12/request"`

Sample Body:

```
[
   {
      "method": "GET",
      "object": "record:rpz:cname",
      "data": {
         "name": "217.60.9.178.{{RPZ_NAME}}",
         "view": "default"
      },
      "assign_state": {
         "name_ref": "_ref"
      }
   },
   {
      "method": "DELETE",
      "object": "##STATE:name_ref:##",
      "enable_substitution": true,
      "discard": true
   }
]
```

Sample Response:

```
{
  "result": [
    {
      "_ref": "record:rpz:cname/
ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LnRocmVhdHEuY29tLnhwdG94cA:217.60.9.178.
{{RPZ_NAME}}/default",
      "canonical": "217.60.9.178",
      "name": "217.60.9.178.threatq",
      "view": "default"
    }
```

```
  ]
}
```

ThreatQuotient provides the following default mapping for this action:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
N/A	Indicator.Attribute	Removed From Infoblox RPZ	N/A	RPZ Name	The value is the user config `Infoblox RPZ`

The attribute A**dded To Infoblox RPZ** is removed if it has the value equal to user config **Infoblox RPZ**.

Enriched Data

> Object counts and action runtime are supplied as generalities only - objects returned by a provider can differ based on credential configurations and action runtime may vary based on system resources and load.

Infoblox Grid Add to RPZ

All indicators had the attribute `Removed From Infoblox RPZ` removed.

METRIC	RESULT
Run Time	34 minutes
Indicators	5,000
Indicator Attributes	5,000

No indicators have the attribute `Removed From Infoblox RPZ` to be removed.

METRIC	RESULT
Run Time	14 minutes
Indicators	5,000
Indicator Attributes	5,000

Infoblox Grid Add Batch to RPZ

No indicators have the attribute `Removed From Infoblox RPZ` to be removed.

METRIC	RESULT
Run Time	2 minutes
Indicators	5,000
Indicator Attributes	5,000

All the indicators have the attribute `Removed From Infoblox RPZ` removed.

METRIC	RESULT
Run Time	22 minutes
Indicators	5,000
Indicator Attributes	5,000

Infoblox Grid Remove from RPZ

No indicators had the attribute `Removed From Infoblox RPZ` removed.

METRIC	RESULT
Run Time	14 minutes
Indicators	5,000
Indicator Attributes	5,000

All the indicators had the attribute `Removed From Infoblox RPZ` removed.

METRIC	RESULT
Run Time	34 minutes
Indicators	5,000
Indicator Attributes	5,000

Infoblox Grid Remove Batch from RPZ

No indicators had the attribute `Removed From Infoblox RPZ` to be removed.

METRIC	RESULT
Run Time	2 minutes
Indicators	5,000
Indicator Attributes	5,000

All the indicators had the attribute `Removed From Infoblox RPZ` removed.

METRIC	RESULT
Run Time	22 minutes
Indicators	5,000
Indicator Attributes	5,000

Known Issues / Limitations

- The actions **Infoblox Grid Add Batch To RPZ** and **Infoblox Grid Remove Batch From RPZ** are considerably faster when no attributes are removed. Be aware that some batches can be dropped due to already existing or missing indicators in the Infoblox RPZ. In the event that a batch is dropped, the run summary will have error files and the corresponding attribute will not be added to the indicator.

  The actions **Infoblox Grid Add To RPZ** and **Infoblox Grid Remove From RPZ** are slower because they upload the indicators sequentially. These actions are considered "safer" in that they will fail only for indicators if that one cannot be uploaded.

Change Log

- **Version 1.0.1**
  - Added two new actions:
    - Infoblox Grid Add Batch to RPZ.
    - Infoblox Grid Remove Batch from RPZ.
  - Added a new Known Issue / Limitation entry regarding the new actions.
- **Version 1.0.0**
  - Initial release