

# SlashNext Threat Intelligence Integration Guide MineMeld

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## 1 | INTRODUCTION

This document provides a detailed tutorial on integrating SlashNext's threat intelligence feed into PaloAlto Network's MineMeld by creating custom miner, aggregator, and output prototypes and nodes.

### ⚠ Warning

It is important to note that these prototypes cannot be edited after their creation so if something goes wrong with the settings the corresponding prototype shall be deleted and re-created.

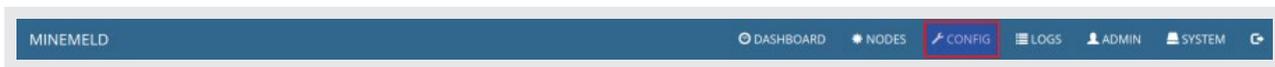
The integration consists the following 6 steps:

1. Create custom SlashNext miner prototypes suitable for JSON API endpoint
2. Create custom SlashNext miner nodes using the new SlashNext miner prototypes
3. Create a custom SlashNext processor prototype
4. Create a custom SlashNext processor node based on the new SlashNext processor prototype
5. Create a custom SlashNext output prototype using the new SlashNext output prototype
6. Create a custom SlashNext output node based on the new SlashNext output prototype

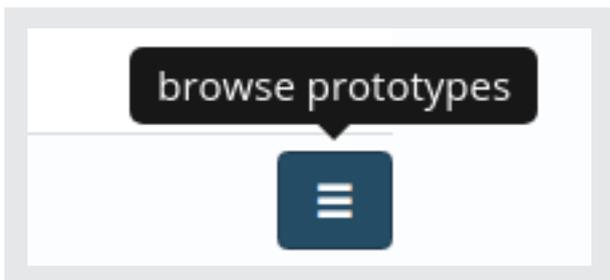
## 2 | MINEMELD CONFIGURATION

### 2.1 | CREATING NEW SLASHNEXT MINER PROTOTYPES

The first step is to create custom miner prototypes which will later be used to create SlashNext custom miner nodes. These prototype define the external feed location and other parameters for the firewall to read it as an external dynamic list (EDL). After logging into MineMeld, click the **CONFIG** menu-bar option to see the currently configured items.



Next, in the lower right-hand portion of the web-page, click on the hamburger icon to browse prototypes.



Search for a prototype miner whose type matches your thread feed source. In this case the miner needs to work with a thread feed having response of JSON type so search for "json". In this document, the aws.Amazon prototype is used to create a custom SlashNext miner prototype.



Click **OK** to save the new prototype. Similarly, repeat the above mentioned steps to create two other prototypes for SlashNext Phishing IPs and Wildcard URLs respectively.

The **CONFIG** settings of each prototype and their respective endpoint URLs are given below in the same order.

### NEW LOCAL PROTOTYPE

**NAME**

**NODE TYPE**

**DEVEL STATUS**

**DESCRIPTION**

**CLASS**

**INDICATOR TYPES**

**TAGS**

**CONFIG**

```

1  age_out:
2    default: null
3    interval: 1800
4    sudden_death: true
5  attributes:
6    confidence: 100
7    share_level: green
8    type: IPv4
9  fields:
10 - attack_category
11 - threat_type
12 - threat_name
13 - threat_actor
14 - first_seen
15 - last_seen
16 indicator: hostip
17 source_name: slashnextintel.phishingips
18 url: https://intel.slashnext.cloud/api/intel/ips?authkey=XXXXXXXXXXXXXXXXXXXXXXXXXXXX
19

```

[https://intel.slashnext.cloud/api/intel/ips?authkey=XXXXXXXXXXXXXXXXXXXXXXXXXXXX&format=json\\_](https://intel.slashnext.cloud/api/intel/ips?authkey=XXXXXXXXXXXXXXXXXXXXXXXXXXXX&format=json_)

### NEW LOCAL PROTOTYPE

**NAME**

**NODE TYPE**

**DEVEL STATUS**

**DESCRIPTION**

**CLASS**

**INDICATOR TYPES**

**TAGS**

**CONFIG**

```

1  age_out:
2    default: null
3    interval: 1800
4    sudden_death: true
5  attributes:
6    confidence: 100
7    share_level: green
8    type: URL
9  fields:
10 - attack_category
11 - threat_type
12 - threat_name
13 - threat_actor
14 - first_seen
15 - last_seen
16 indicator: url
17 source_name: slashnextintel.phishingwildcardurls
18 url: https://intel.slashnext.cloud/api/intel/wildcardurls?authkey=XXXXXXXXXXXXXXXXXXXXXXXXXXXX
19

```

```
https://intel.slashnext.cloud/api/intel/wildcardurls?authkey=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx&format=json_
```

## 2.2 | CREATING NEW SLASHNEXT MINER NODES

The next step is to create new SlashNext miner nodes using the newly created SlashNext miner prototypes. Click on **CONFIG** button again.



Next, click on the **eye** icon in the lower right in order to change to expert mode. Once in expert mode, a plus icon will appear allowing you to add a MineMeld node.



Click on the plus button, provide the new node with a name. From the **PROTOTYPE** drop-down, select the prototype previously created in section 2.1 as shown below

**ADD NODE**

NAME

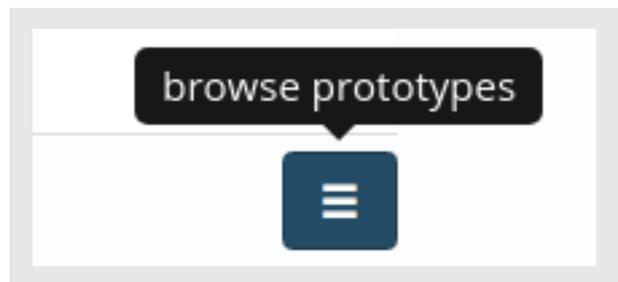
PROTOTYPE

INPUTS

Click on OK to save the miner node and repeat the same steps to create three other miner nodes based upon rest of the miner prototypes that we created in the previous section.

## 2.3 | CREATING NEW SLASHNEXT AGGREGATOR PROTOTYPE

Next, a new Aggregator node (also known as a processor node) is to be created. This node will aggregate one or more miner feeds, perform de-duplication, and prepare the data to be used by an output node. Again go to the **CONFIG** section and browse all the available prototypes by clicking the hamburger icon button.



Search for "processor" to see all the available processor prototypes. In this example, the **stdlib.aggregatorDomain** prototype is used to build the SlashNext processor prototype.

Select the **stdlib.aggregatorDomain** prototype and then click on **NEW** in the upper right-hand portion of the page to create a new aggregator node based on the one you just selected.

Modify the **NAME** to reflect the SlashNext aggregator prototype, edit the **DESCRIPTION** field and modify the **CONFIG** areas as shown below.

### NEW LOCAL PROTOTYPE

**NAME**

**NODE TYPE**

**DEVEL STATUS**

**DESCRIPTION**

**CLASS**

**INDICATOR TYPES**

**TAGS**

**CONFIG**

```

1  infilters:
2  - actions:
3    - accept
4    conditions:
5      - __method == 'withdraw'
6      name: accept withdraws
7  - actions:
8    - accept
9    conditions:
10   - type == 'domain'
11   name: accept domain
12  - actions:
13    - accept
14    conditions:
15   - type == 'URL'
16   name: accept URL
17  - actions:
18    - accept
19    conditions:
20   - type == 'IPv4'
21   name: accept IPv4
22  - actions:
23    - drop
24    name: drop all
25  whitelist_prefixes:
26    - wl
27

```

## 2.4 | CREATING NEW SLASHNEXT AGGREGATOR NODE

Go back to **CONFIG** menu, enter expert mode as shown before, and click on the plus button to add a new aggregator node.

Give the new SlashNext aggregator node a name, and from the **PROTOTYPE** drop-down, select the prototype just created.

For the **INPUTS** field, select all four custom minor nodes previously created in section 2.2 as shown below.

### ADD NODE

**NAME**

**PROTOTYPE**

**INPUTS**

## 2.5 | CREATING A NEW SLASHNEXT OUTPUT PROTOTYPE

The final node to be created is the SlashNext Output node. This node will use the aggregated list data from the SlashNext aggregator node and publish it to MineMeld's internal web server so that the firewall can read the final list and use it in a policy. From the **CONFIG** menu, select the icon to browse the prototypes. In the search field, look for "output". In this example, the **stdlib.feedGreenWithValue** is used to build the SlashNext Output prototype.

Select the prototype and click **New** to create a new SlashNext output prototype based on **stdlib.feedGreenWithValue**. Modify the **NAME** to reflect the SlashNext output prototype, edit the **DESCRIPTION** field and modify the **CONFIG** areas as shown below.

### NEW LOCAL PROTOTYPE

NAME:

NODE TYPE:

DEVEL STATUS:

DESCRIPTION:

CLASS:

INDICATOR TYPES:

TAGS:

CONFIG: 

```

1  infilters:
2  - actions:
3    - accept
4    conditions:
5      - __method == 'withdraw'
6      name: accept withdraws
7  - actions:
8    - accept
9    conditions:
10   - share_level == 'green'
11   name: accept share level green
12 - actions:
13   - drop
14   name: drop all
15 store_value: true
16
```

Finally click on **OK** to save the prototype.

## 2.6 | CREATING A NEW SLASHNEXT OUTPUT NODE

Go back to **CONFIG**, enter expert mode, and click on the plus button to create a new SlashNext output node based on the prototype just created. Give it a name, then select the SlashNext output prototype in the dropdown.

For the input, select the SlashNext aggregator/processor node previously created in Step 2.4 Click **OK** to save the new SlashNext output node.

### ADD NODE

NAME:

PROTOTYPE:

INPUTS:

Return to the **CONFIG -> Prototypes**, enter "doc" in the search field which will then display all of the newly create SlashNext nodes: miners, aggregator/processor and output.

