

# Cisco ASA Playbook Document



**MANNAI TRADING CO. WLL**

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MICROSOFT SOLUTIONS

**Your Complete Guide to  
achieve Digital  
Transformation**



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## 1. Overview

Cisco Adaptive Security Appliance (ASA) Software is the core operating system for the Cisco ASA Family. It delivers enterprise-class firewall capabilities for ASA devices in an array of form factors - standalone appliances, blades, and virtual appliances - for any distributed network environment. ASA Software also integrates with other critical security technologies to deliver comprehensive solutions that meet continuously evolving security needs.

This integration allows to automate response to Microsoft Sentinel incidents which contain IPs. It contains the basic connector component, with which you can create your own playbooks that interact with Cisco ASA. It also contains 3 playbook templates, ready to quick use, that allow direct response on Cisco ASA from Microsoft Teams.

### *Using Logic Apps gateway*

On a server in your network install the on-premises data gateway, see [Install on-premises data gateway for Azure Logic Apps](#). The server on which the data gateway is installed needs to be able to reach the Cisco ASA REST API. Also the SSL certificate used by the Cisco ASA REST API needs to be able to be validated on the server, including the certificate chain. When deploying the Cisco ASA connector choose the option via on-premises data gateway. When using the connector you will be asked to select the data gateway you want to use.

## 2. Block IP – Cisco ASA

**Purpose:** This playbook allows blocking/allowing of IPs in Cisco ASA, using a **Network Object Group**. This allows making changes to a Network Object Group members, instead of making Access Control Entries. The Network Object Group itself should be part of an Access Control Entry.

**Type:** Sentinel Trigger

**Uses:** When a new Sentinel incident is created, this playbook gets triggered and performs below actions

1. For the IPs we check if the IP are already a member of the Network Object Group
2. An adaptive card is sent to a Teams channel with information about the incident and giving the option to ignore an IP, or depending on its current status block it by adding it to the Network Object Group or unblock it by removing it from the Network Object Group.
3. Comment is added to Microsoft Sentinel incident.



LH

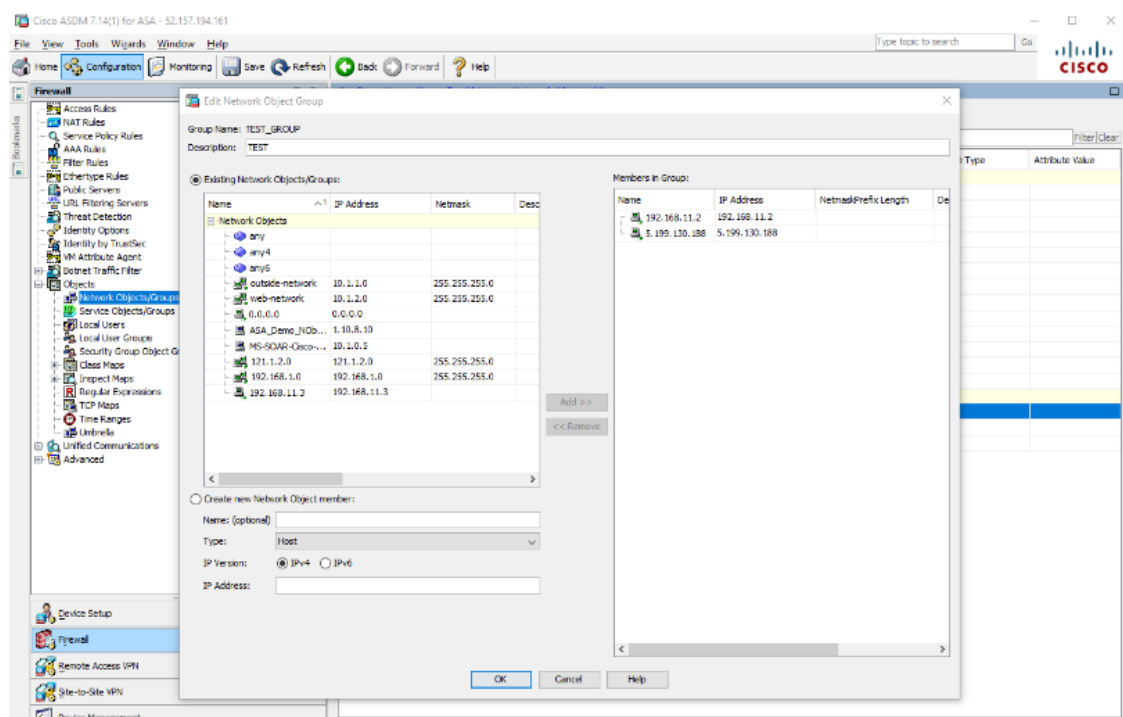
Laurens Hoogendoorn laurens@lhwddev.onmicrosoft.com 03/28/21, 11:07 PM

Cisco ASA playbook run summary

The following IPs were found in the Incident:

5.199.130.188 - blocked in Cisco ASA

## IP is added to Cisco ASA object group:



## Prerequisites

1. **This playbook template is based on Microsoft Sentinel Incident Trigger which is currently in Private Preview (Automation Rules).** You can change the trigger to the Sentinel Alert trigger in cases you are not part of the Private Preview.
2. Cisco ASA custom connector needs to be deployed prior to the deployment of this playbook, in the same resource group and region. Relevant instructions can be found in the connector doc page.
3. In Cisco ASA there needs to be a Network Object Group. You can create a Network Object Group using Cisco ASDM, [Configure a Network Object Group](#), or using the CLI, [Configuring a Network Object Group](#). The Network Object Group can be blocked using an access rule, [Configure Access Rules](#)

**Note:** In Cisco ASA create a local user and allow it to use the REST API. Depending on the playbook used the user needs to be able to add members to a network object group or create access control entries, by default that requires privilege level 15.

<https://medium.com/@daniela.mh20/rest-api-for-cisco-asa-3374a22d2e24>



## [Cisco ASA REST API Quick Start Guide](#)

- User creation:
  - Level 15 privilege for PUT/POST/DELETE operations.
  - Level 5 privilege for only GET operations.
  - `username restapi password ***** privilege 15`
- Configure and enable interface management 1/1.
  - `interface management 1/1`
  - `nameif management`
  - `security-level 100`
  - `ip address x.x.x.x x.x.x.x`
  - `no shut`
- Configure and enable HTTP
  - `HTTP server enable`
  - `http x.x.x.x x.x.x.x management`
- Configure authentication for HTTP to be made locally.
  - `aaa authentication http console LOCAL`
- Configure and enable REST agent.

## REST API AGENT

From Cisco software web page, download .SPA file, transfer the file to your ASA and enable it.

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### Select a Software Type

ASA Common Software  
Adaptive Security Appliance (ASA) Device Manager  
Adaptive Security Appliance (ASA) Software  
Adaptive Security Appliance REST API Plugin  
FirePOWER Services Software for ASA  
Firepower SRU-VDB-GeoDB Content Updates  
Firepower Threat Defense Software

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1.3.2

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1

### ASA 5506-X with FirePOWER Services

Release 1.3.2

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[Release Notes for 1.3.2](#)

#### File Information

Rest API package for ASA  
asa-restapi-132346-11bf-k8.SPA

Release Date

28-Feb-2019

Size

56.39 MB



Rest API package for ASA  
asa-restapi-132325-11bf-k8.SPA

07-Aug-2018

56.39 MB



Rest API package for ASA  
asa-restapi-132320-11bf-k8.SPA

18-Jul-2018

56.38 MB







Global config mode:

- **rest-api image disk0:/asa-restapi-xxxxx.**
- **rest-api agent.**

```
ciscoasa(config)# rest-api image boot:/asa-r
ciscoasa(config)# rest-api image boot:/asa-restapi-132100-1fbff-k8.SPA
Computed Hash   SHA2: 3ecc70416377f9c375e4b10b079af1e0
                70f5f9fca7c45235d07a62135ca1348a
                4fc5529969f466667270773c18940522
                162efa861a8b8eae6cd98cf854613a31
G
Embedded Hash   SHA2: 3ecc70416377f9c375e4b10b079af1e0
                70f5f9fca7c45235d07a62135ca1348a
                4fc5529969f466667270773c18940522
                162efa861a8b8eae6cd98cf854613a31
3
Digital signature validated successfully
ciscoasa(config)#
ciscoasa(config)# rest-api agent
0 Debug is enabled (level=5).
ciscoasa(config)# Starting the internal [HTTP/1.1] server on port 8111
```

To validate web Documentation.

The actual documentation WEB page for Cisco's ASA apis, are accesible trough the following URL:

**URL: [https://\[YOUR MANAGMENT IP ADDREES\]/doc](https://[YOUR MANAGMENT IP ADDREES]/doc)**

Here you can check all the requests you can do and the URL's to get them done.

