

Overview of the Cisco AMP for Endpoints API

Contents

[Introduction](#)

[Generate and Delete API Credentials](#)

[API Versions and Current Options](#)

[API Command Break-down and Example](#)

[Related Information](#)

Introduction

This document describes about the Cisco Advanced Malware Protection (AMP) for Endpoints. Cisco AMP for Endpoints comes with an Application Programming Interface (API). It allows you to pull data from an AMP for Endpoints deployment, and manipulate them, when necessary.

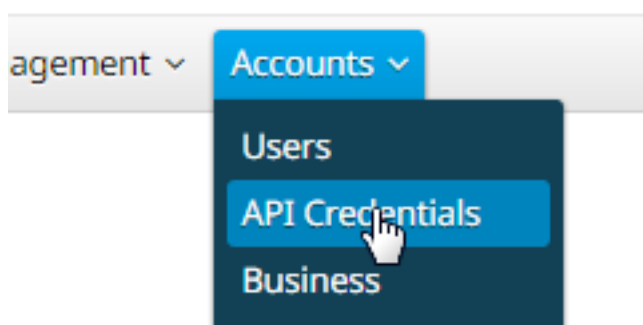
This article demonstrates some basic functionalities of the API. The examples on this article uses a Windows 7 endpoint.

Contributed by Matthew Franks, Nazmul Rajib, and Cisco TAC Engineers.

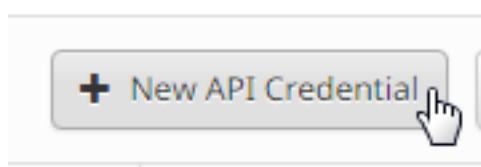
Generate and Delete API Credentials

In order to use the AMP for Endpoint API, you have to set up an API credential. Follow the given steps to create a credential through the AMP Console.

Step 1: Log into the Console, and navigate to **Accounts > API Credentials**.



Step 2: Click **New API Credential** to create a new set of Keys.



Step 3: Provide an **Application name**. Select the **Scope** of Read-only or Read & Write.

New API Credential




Application name

Scope Read-only
 Read & Write

An API credential with read and write scope can make changes to your Cisco AMP for Endpoints configuration that may cause significant problems with your endpoints.

Some of the input protections built into the Cisco AMP for Endpoints Console do not apply to the API.

Cancel

Create 

Note: An API credential with read and write scope can make changes to your Cisco AMP for Endpoints configuration that might cause significant problems with your endpoints. Some of the input protections built into the Cisco AMP for Endpoints Console do not apply to the API.

Step 4: Click the **Create** button. The **API Key Details** appears. Save this information as some of it will not be available after leaving the screen.

< API Key Details

The API credentials have been generated. Keep the new API credentials in a password manager or encrypted file.

3rd Party API Client ID

538e8b8203a48cc5c7fa

API Key


a190c911-8ca4-45fa-8740-e384ef2d3d5b

Note: API credentials (API Client ID & API Key) will allow other programs to retrieve and modify your Cisco AMP for Endpoints data. It is functionally equivalent to a username and password, and should be treated as such.

Caution: Your API credentials are displayed once only. If you lose the credentials, you have to generate new ones.

Delete the API credentials for an application if you suspect they have been compromised, and create a new one. When you delete an API credential, it locks out the client who uses the old ones, so update them with the new credentials.

| Testing | | | |
|------------|----------------------|-------|-------------------------|
| Client ID | 538e8b8203a48cc5c7fa | Scope | Read & Write |
| Created by | Matthew Franks | Date | 2016-08-24 14:53:27 UTC |
| Last used | Never | | |

 Delete

API Versions and Current Options

There are currently two versions of the AMP for Endpoints API - Version 0 and Version 1. The Version 1 has additional functionality versus Version 0. The documentation for Version 1 is [here](#). You can pull this information with the use of Version 1.

- Computers
- Computer Activity
- Events
- Event Types
- File Lists
- File List Items
- Groups
- Policies
- Versions

Click on the relevant command in the document to see examples of its usage.

API Command Break-down and Example

Each API command contains similar information and can essentially break down to a curl command and can be looked at like this:

```
curl -o yourfilename.json https://clientID:APIKey@api.amp.cisco.com/v1/whatyouwanttodo
```

When you use the curl command with the `-o` option, it allows you to save the output to a file. In this case the file name is "yourfilename.json".

Tip: More information on .json files can be found [here](#).

The next step in the **curl** command is to set the address with your credentials before the @ symbol. When you generate API Credentials, you know the clientID and APIKey, so this section of the command will resemble the link given below.

```
https://538e8b8203a48cc5c7fa:a190c911-8ca4-45fa-8740-e384ef2d3d5b@
```

Add the version number and what you would like to do. For this example, run the [GET /v1/computers](#) options. The full command looks like this:

```
curl -o computers.json https://538e8b8203a48cc5c7fa:a190c911-8ca4-45fa-8740-e384ef2d3d5b@api.amp.cisco.com/v1/computers
```

After you run the command, you should see a **computers.json** file downloaded to the directory where you initiated the command.

```
C:\Users\mafranks>curl -o computers.json https://538e8b8203a48cc5c7fa:a190c911-8ca4-45fa-8740-e384ef2d3d5b@api.amp.cisco.com/v1/computers
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload  Total  Spent    Left     Speed
  0     0     0     0     0     0     0     0  --:--:--  0:00:02 --:--:--    0
```

```
C:\Users\mafranks>dir | findstr computers
09/06/2016  02:37 PM                128 computers.json
```

Note: Curl is available [online](#) and compiled for lots of platforms that includes Windows (generally you'll want to use the Win32 – Generic version).

When you open the file you will see all of the data in a single line. If you would like to see this in its proper format, you can install a browser plugin to format it as JSON and open the file in a browser. This shows information for your computers that you can use however you would like, such as:

connector_guid, hostname, active, links, connector_version, operating_system, internal_ips, external_ip, group_guid, network_addresses, policy_guid, and policy name.

```
{
  version: "v1.0.0",
  metadata: {
    links: {
      self: "https://api.amp.cisco.com/v1/computers"
    },
    results: {
      total: 4,
      current_item_count: 4,
      index: 0,
      items_per_page: 500
    }
  },
  data: [
    {
      connector_guid: "abcdef-1234-5678-9abc-def123456789",
      hostname: "test.cisco.com",
      active: true,
      links: {
        computer: "https://api.amp.cisco.com/v1/computers/abcdef-1234-5678-9abc-def123456789",
        trajectory: "https://api.amp.cisco.com/v1/computers/abcdef-1234-5678-9abc-def123456789/trajectory",
        group: "https://api.amp.cisco.com/v1/groups/abcdef-1234-5678-9abc-def123456789"
      },
      connector_version: "4.4.2.10200",
      operating_system: "Windows 7, SP 1.0",
      internal_ips: [
        "10.1.1.2",
        "192.168.1.2",

```

```
" 192.168.2.2",
" 169.254.245.1"
],
external_ip: "1.1.1.1",
group_guid: "abcdef-1234-5678-9abc-def123456789",
network_addresses: [
{
mac: "ab:cd:ef:01:23:45",
ip: "10.1.1.2"
},
{
mac: "bc:de:f0:12:34:56",
ip: "192.168.1.2"
},
{
mac: "cd:ef:01:23:45:67",
ip: "192.168.2.2"
},
{
mac: "de:f0:12:34:56:78",
ip: "169.254.245.1"
}
],
policy: {
guid: "abcdef-1234-5678-9abc-def123456789",
name: "Protect Policy"
}
```

Now that you have seen a basic example in action, you can use the various command options to pull and manipulate data in your environment.

Related Information

- [Cisco AMP for Endpoints API Documentation](#)

Technical Support & Documentation - Cisco Systems