# **Using Cloud Analytics with Caldera**

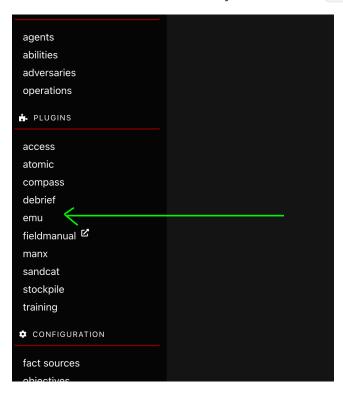
Using the emu plugin for Caldera makes it easy, but it is not obvious at all how it works. The high level process is as follows:

**NOTE**: Caldera 4.0.0-beta was used for the following instructions. Not tested on other versions.

## Setup

#### **Ensure EMU Plugin is Enabled**

Make sure the emu plugin is enabled within Caldera. If not, navigate to *Configuration -> configuration-> Plugins*, and enable the emu plugin, and restart Caldera. When enabled, you should see emu on the left side menu.



# **Install New Advesary Emulation Plan**

#### **Option A: Install From AEP Archive**

- 1. On the command line on the Caldera system, navigate to the following directory (CALDERA\_HOME denotes the home directory of the Caldera installation).
  - 1. cd CALDERA HOME/plugins/emu/data/adversary-emulation-plans
- 2. Copy the attached file to the Caldera system, and decompress while in the directory in the previous step.
  - tar -zxvf /path/to/aep1-package-caldera.tar.gz
- 3. The resulting directory layout should look similar to the following:

#### **Option B: Create Directory Layout Manually**

Alternatively, you can manually recreate the same structure.

- 1. cd CALDERA\_HOME/plugins/emu/data/adversary-emulation-plans
- 2. mkdir -p aep1/Emulation\_Plan/yam1/
- 3. cp /path/to/aep1.yaml ./aep1/Emulation\_Plan/yaml/

#### **Activate New Adversary Emulation Plan**

After completing one of the above versions, restart Caldera.

### **Validate**

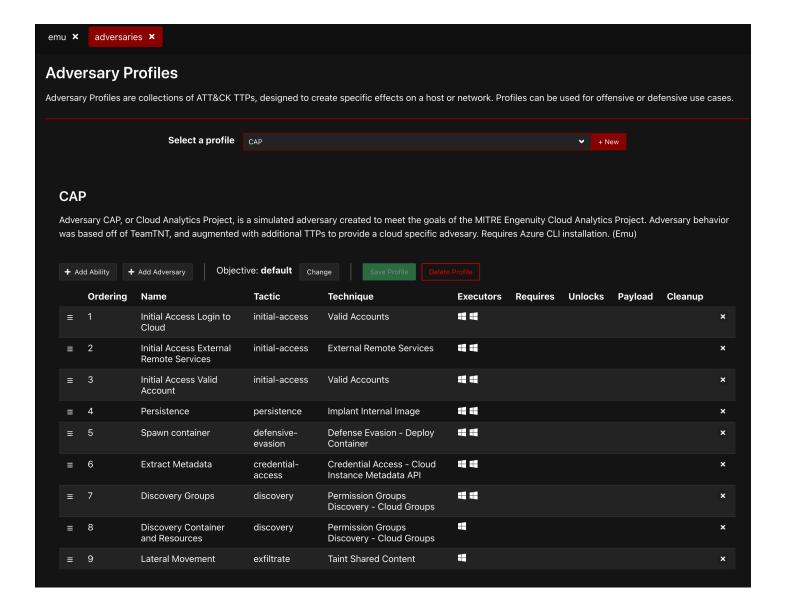
**NOTE**: The Cloud Analytics adversary name is currently CAP, short for Cloud Analytics Project.

## **Adversary Profile**

Within Caldera, *Adversary Profiles* allow for collecting ATT&CK TTPs for a specific effect or scenario, such as an offensive or defensive scenario.

To validate the CAP profile is setup, within the Caldera web interface, navigate to *Plugins -> emu -> Adversaries -> Select a profile -> CAP*.

A screen similar to the following should be displayed.



#### **Fact Sources**

Within Caldera, *Fact Sources* allow for using variables within an execution plan. Multiple fact source configurations can be setup for a profile, such as a fact source for the test environment. Along with Adversary Profiles, Fact Sources allow for executing predefined scenarios customized to a particular environment.

To validate the CAP Adversary Fact Source has been setup, within the Caldera web interface, navigate to Configuration -> fact sources -> Select a source -> CAP.

A screen similar to the following should be displayed.

