

CheckMates R80.10 Demo - Using the API

Objective: Use the R80.10 RESTful API to simplify routine tasks

- Create 10 hosts using the provided hosts.csv CSV file.
- Create 10 new hosts, services, and rules into a new policy package using the provided Bash scripts.
- Delete what you created

1. Move the files included in this zip file to a lab or test R80.10 management server.
2. SSH into the management server change to the directory where you have placed the script files. We will run the following commands for this lab from the R80.10 management server
3. Make sure to login to the R80.10 SmartConsole and search for objects with the name CheckMates. There should be no objects listed.
4. Run the following command on the management server to import the contents of the csv file into the R80.10 database. Review the contents of the hosts.csv file.

```
mgmt_cli -r true add host --batch hosts.csv
```



csv files can be used as arguments for all mgmt_cli commands. They can be used to create rules, modify networks, change services, etc.

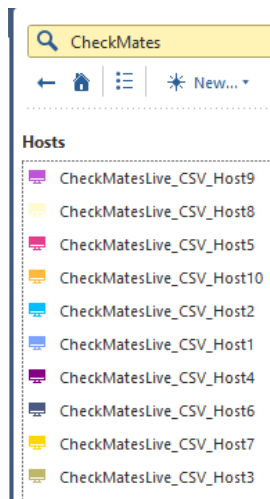


The mgmt_cli tool is included in any Gaia and SmartConsole installation.




The flag for -r true in the command allows you to login as the root and will not prompt for credentials

5. Check the SmartConsole to see the objects that were created. With the CPX filter the objects should look similar to the following.



6. Next we will delete the objects we just created using the hosts_delete.csv file. This is the same file with only the names of the objects we would like to remove.
7. Run the command to remove the objects.

```
mgmt_cli -r true delete host --batch hosts_delete.csv
```

 When using a single mgmt_cli api command there is an implicit login, publish and logout.

8. Next we will add 10 hosts to the database using a simple bash script that uses a counter. Run the following command

```
bash Create_MyHost
```

9. Review the SmartConsole to see the new objects with the name starting with MyCheckMatesLive

10. Next we will add 10 new TCP services using a simple bash script that uses a counter as well. Run the following command

```
bash Create_MyTCPServices
```

11. Review the SmartConsole to see the new Service objects with the name starting with MyCheckMatesLive

12. Next we will add a new Policy package, set the Network Layer to use the Application Control, Data Awareness and URL filtering blades. In addition we will add 10 rules to the new rulebase we just created. Run the following command

```
bash Create_MyRules
```

13. Review the SmartConsole for the new policy package named CheckMatesLive_Demo that was just added and the 10 rules using the hosts and TCP services we created in the first scripts.

14. That was so much fun, now delete them with in one command! Run the following

```
bash Delete_All
```

15. Since this is the end, we will create all the Hosts, TCP services, Policy package and Rules as part of a single script. Run the following command

```
bash Create_All
```

✓ Using APIs can save time and increase your productivity. It's a powerful tool with endless possibilities.

Mgmt_cli communicates with the management server using REST APIs – for more details see <https://community.checkpoint.com/> > "Developer Network"