

CYBER RANGE

HCLI 3.0.0

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Introduction



INTRODUCTION

- Hcli is a CLI "Command Line Interface"
- Use to interact with hynesim
- Multiplatform
 - Windows PowerShell
 - Linux bash
- Automation needed
- Can realize just most important actions like hyneview
 - List topologies
 - Start/Stop entities
 - Manage users and API Keys
 - ...



INSTALLATION

- On the cyber range hcli is already installed
- Hcli's user installers wizard are located in:
 - Windows: /usr/share/hcli/DIATEAM_hcli_setup_3.0.0.exe
 - Linux: /usr/share/hcli/DIATEAM_hcli_setup_3.0.0



CONFIGURATION

- Show hcli's configuration
 - hcli config list

~ → hcli config list	
field	content
hapi.port	80
show.related-objects	true
user.api-key	e651a969-e8d6-4d3f-a36d-879a777b34a
hapi.address	api.hns-platform.com

- Set new configuration
 - hcli config set user.api-key e651a969-e8d6-4d3f-a36d-879a777b34a
 - hcli config set hapi.address api.hns-platform.com
 - hcli config set hapi.port 80







HELPER

• Use the --help flag

→ hclihelp NAME:	
hcli - A cli for hynesim	
USAGE: hcli [global options] command [command options]	
VERSION: 3.0.0	
DESCRIPTION: It will help you to pilot the platform and run actions, such as loading a topology, listing entities an he communication with hynesim is made through the REST API offered by hns-master.	d more. T
AUTHOR: DIATEAM - military & civil cybersecurity solutions	
COMMANDS: topologies Lists topologies and performs actions entries Lists entries and performs actions users Lists users and performs actions apiKeys Lists API keys and performs actions config List or set/unset configuration's keys	
GLOBAL OPTIONS: host value The string value does match with this pattern: addr:port key value The string value is the APIKey help, -h show help (default: false) version, -v print the version (default: false)	

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MAN PAGE

man hcli

• Use the man command





Use hcli



• Hcli version

→ hcli --version hcli version 3.0.0

• List topologies

→ hcli topologies		
List of Topologies		
ShortName	UUID	Status
Test Action Manager	4984fb3e-386a-4c1b-a7e0-786dcedb9a96	loaded
tp-alexis	cf2bdd6d-8f28-4c0d-be44-21f2392345eb	 unloaded
IXIA Training	0e9b96bd-15bf-4b5d-8703-80530dfd102a	🗧 broken
Topo AV - Internet access	f0a51ce8-6a1e-4edf-85d6-a12ed223e2ca	 unloaded
Moodle-LMS	af9b6ca0-66ca-4364-bc66-0e420693f8b6	 unloaded
Session#2	bc169ca1-ce98-4cfd-bac1-ecae4be379ab	 unloaded
TP_Charles	a3d91158-6743-48d8-9cd4-3b68a052feea	😑 broken
Puppet témoin	441c02a9-2196-45ee-9cbd-2beb91151853	 unloaded



Topology's information

→ hcli topologies af9b6ca0-66ca-4364-bc66-0e420693f8b6
General information
ShortName Moodle-LMS
UUID af9b6ca0-66ca-4364-bc66-0e420693f8b6
Description
Status ● unloaded

List of entity entries

ShortName Moodle ubuntu Topology gate - internet-hub UUID 4794e06e-7d1e-45a0-8309-6d189a541a69 7c93bfc9-f055-487a-a871-dadaf799c9d7

TypeStatusdomain.kvmnot loadedtopologyGatenot loaded

• Start the entity

hcli topologies entities start --entity 4794e06e-7d1e-45a0-8309-6d189a541a69 af9b6ca0-66ca-4364-bc66-0e420693f8b6

start entity: 4794e06e-7d1e-45a0-8309-6d189a541a69



• Result

~				
→ hcli topologi	es af9b6ca0-66ca∙	-4364-bc66-0e420693f8b6		
General informa				
ShortName	Moodle-LMS			
UUID	af9b6ca0-66ca-43	364-bc66-0e420693f8b6		
Description				
Status	loaded			
List of entity			-	64-4
ShortName		UUID	туре	Status
Moodle ubuntu		4794e06e-7d1e-45a0-8309-6d189a541a69	domain.kvm	started
Topology gate -	internet-hub	7c93bfc9-f055-487a-a871-dadaf799c9d7	topologyGate	 undefined

• Entity information

~			
→ hcli ent	ries 4	794e06e-7d1e-45a0-8309-6d189a541a69	
General in	format	ion	
ShortName		Moodle ubuntu	
LongName			
Descriptio	n	user moodle	
-		pwd hns	
UUID		4794e06e-7d1e-45a0-8309-6d189a541a69	
Туре		domain.kvm	
Locked		Normal	
Immutable		false	
Status		started	
Resources vCPUs 1 Memory 8.	0 GiB		
Network			
Source Mo	del	MacAddress	
eth0 e1	000	00:11:9A:27:a9:c1	
List of To ShortName Moodle-LMS	pologi	es UUID af9b6ca0-66ca-4364-bc66-0e420693f8b6 	Status • loaded

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Documentation



DOCUMENTATION

- Hcli's user documentation is located at:
 - /usr/share/hcli/hcli_documentation.md
- In Windows, the man page is located at:
 - %USERPROFILE%\AppData\Local\DIATEAM\hcli\man



Script examples

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SCRIPT EXAMPLES

• Script bash

61	******
62	# Program #
63	******
64	
65	echo "Verify if topology is loaded"
66	hcli topologies \$TOPO_UUID > \$TMP/topology
67	formatFile "\$TMP/topology"
68	status=\$(checkTopologyStatus "\$TMP/topology" "loaded")
69	if [[\$status != "loaded"]]; then
70	echo "Topology not loaded"
71	exit l
72	fi
73	
74	echo "Start the topology"
75	hcli topologies start \$TOPO_UUID
76	if [[\$? -eq 1]]; then
77	exit l
78	fi
79	
80	#Sleep 2s because start VM is not fast
81	sleep 2
82	
83	echo "verify if entities are started"
84	hcli topologies \$10P0_UUID > \$1MP/entities
85	TormatFile "\$IMP/entities"
86	checkEntitiesStatus "\$IMP/entities" "started"
87	echo "topology is started"

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SCRIPT EXAMPLES

Script PowerShell







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