

Summary

- 1. Hyneview Launch
- 2. Range Connection
- 3. HMI Presentation
- 4. Topology Management
- 5. Entity Management
- 6. Wire Management
- 7. Features





Hyneview Launch



Hyneview Launch

• On Windows system



• On Linux system



hns@debian: ~ 135x24

<mark>hns@debian:~</mark>\$ hyneview Warning: Ignoring XDG_SESSION_TYPE=wayland on Gnome. Use QT_QPA_PLATFORM=wayland to run on Wayland anyway. Using QLoggingCategory::setFilterRules: "diamesh.filetransfer=false"



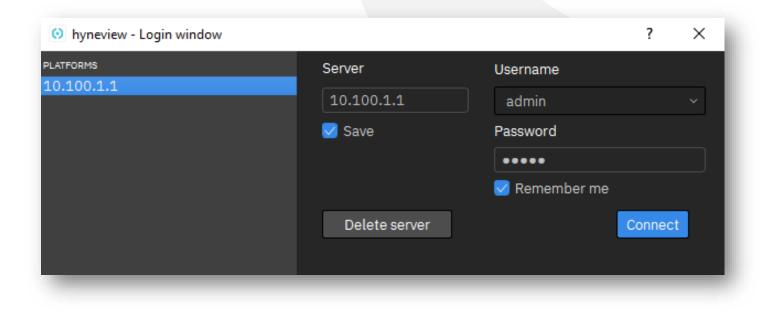


Connect to Cyber Range

Connect to Cyber Range

Mandatory informations

- Cyber Range IP Address
- Username
- Password



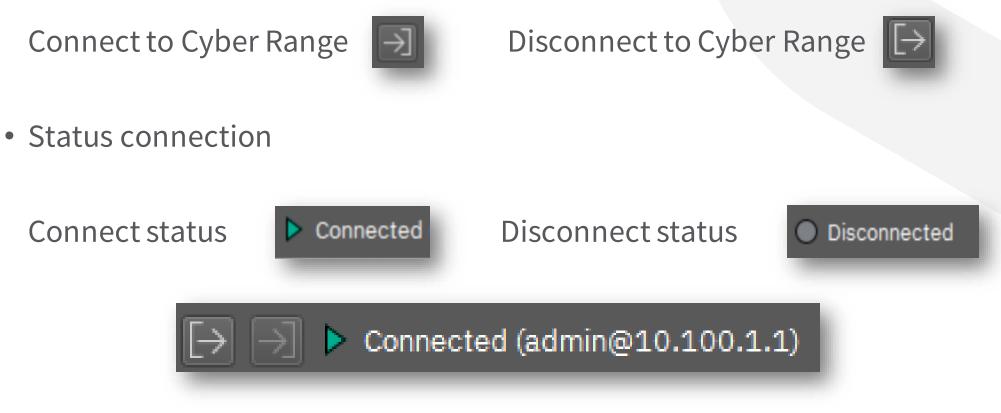


HMI Presentation





- Connection to Cyber Range
 - Tools connection





- Quick actions
 - Quick actions for topologies
 - Quick actions for entities

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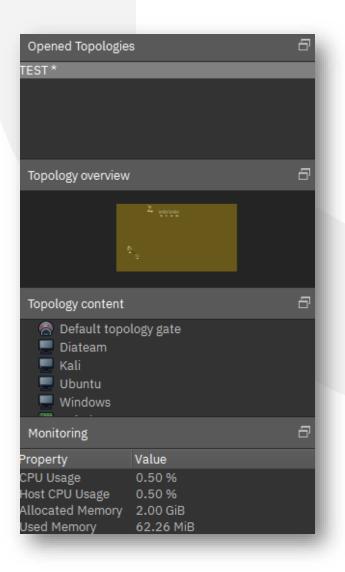


- Entity Catalog
 - Access to entities available on Cyber Range
 - Starter pack content
 - Customized entities

Entity Catalog	5	8
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ρ Search		
admin@hynesim master		
Dtraining entities		
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🕨 🛅 Architecture 2 - Relai Postfix - Yaya		
▶ 🛅 Base entities		
- См		
Import - CMP10-Pilot 1 Plastron - 2022	20	
* 🛅 import - CMP11-TheInternet - 202205	24.	
Import - THE_Internet_Para_CyberMar	- 2.	
😪 Gate_TopoCyMar		
🚟 Switch		
Import - CMP12-Monitoring - 2022052	4	
😤 Substation PLC TG		
Win7-UPro CM	•	•
▶ 🗂 D&R TPL WIP		
▶ 🗂 D&R_GP		
D&R_LEJOE		
D&R_PINPIN		
D&R_YAYA		



- Topology Overview
 - Display information about session usage
 - List all opened topologies
 - Display the current topology overview
 - Display entities in the current topology
 - Display the topology monitoring



- Logs Overview
 - Display information about session usage
 - Debug/Warning/Error

Logs		8 G
Filter: Debug Warning Error 🖌 Clear		
[12:30:48] Warning - "Could not add entity to content model. ID already used."		
[12:31:28] Debug - "Please wait while loading session DETECT_AND_REACT."		
[13:27:11] Debug - "Please wait while loading session TEST."		
[13:29:00] Error - "Unable to remove wire 4681"		
		Þ
→ → Connected (admin@10.100.1.1)	O DIATEAM	100 %

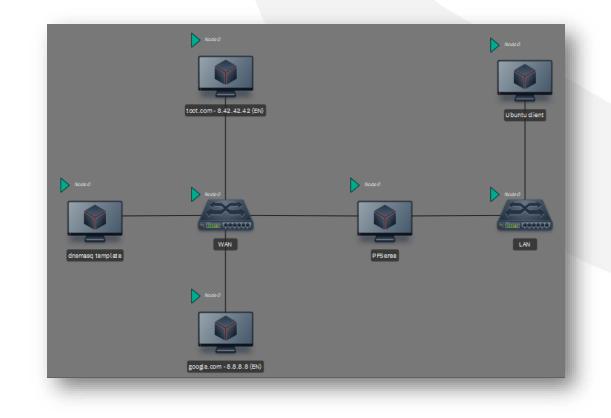




- Topology Composition
- Topology Catalog
- Create a new topology
- Open/Load a topology
- Save a topology
- Unload a topology

- Remove a topology
- Clone a topology
- Topology properties
- Topology statuses
- Topology navigation
- Customize a topology

- Topology Composition
 - Area to display all entities that compose the topology
 - Switchs
 - Diodes
 - TopologyGates
 - Hybrid Netcards
 - Domains
 - Links between all elements



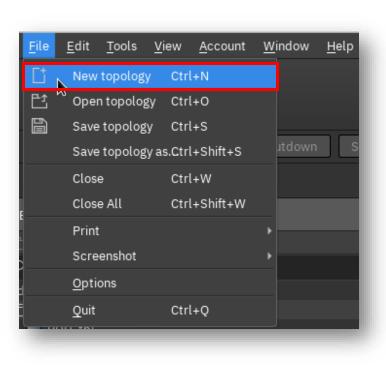


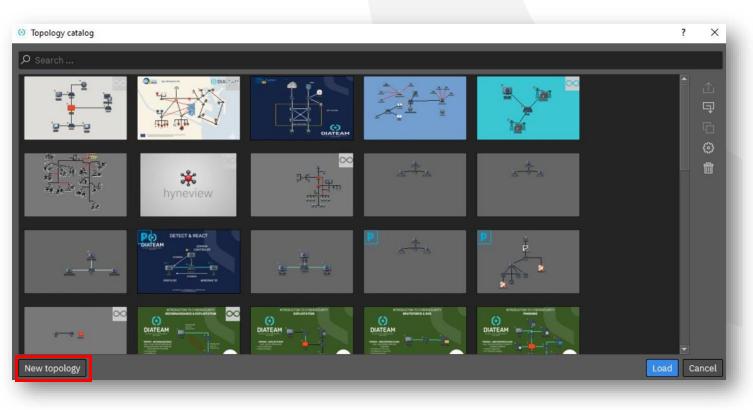
• Topology Catalog



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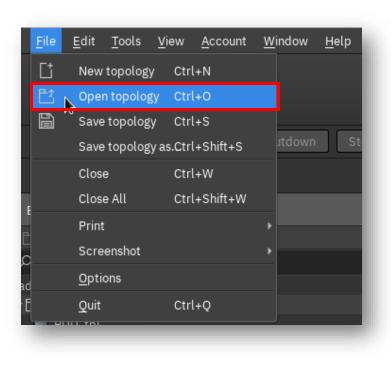
Create a new topology

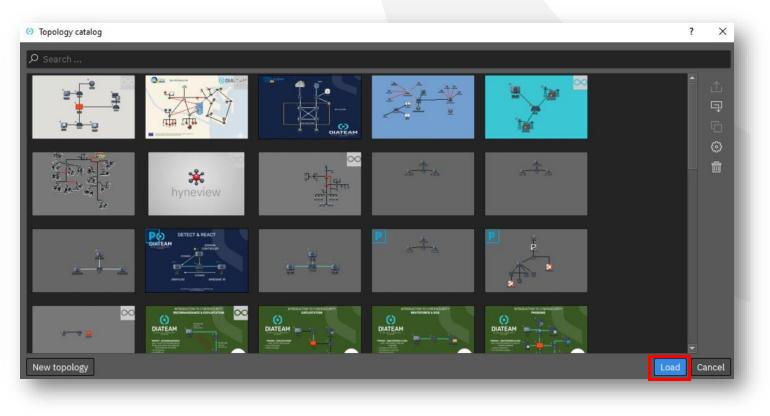






Open/Load a topology

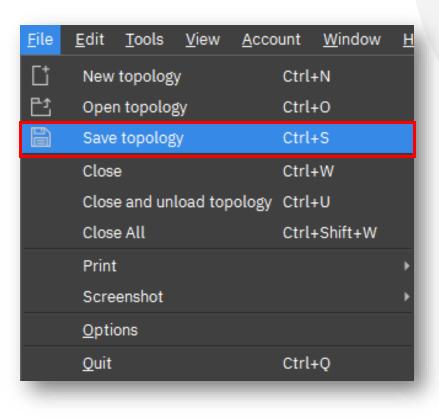






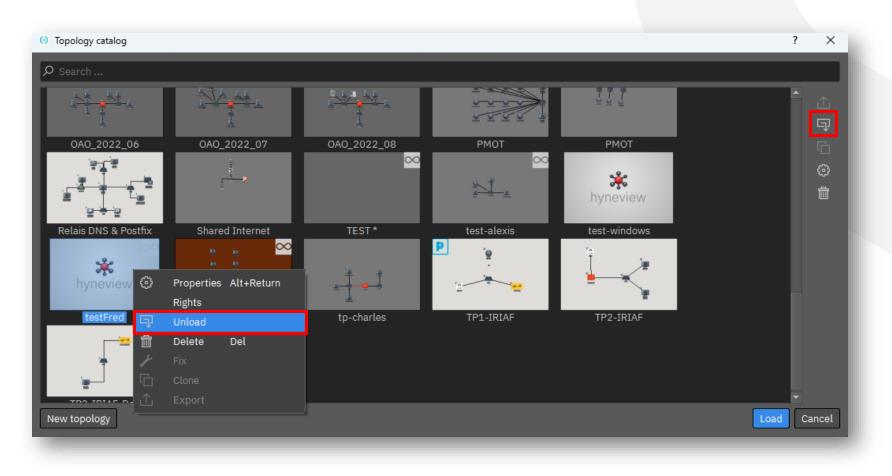
Topology Management

• Save a topology



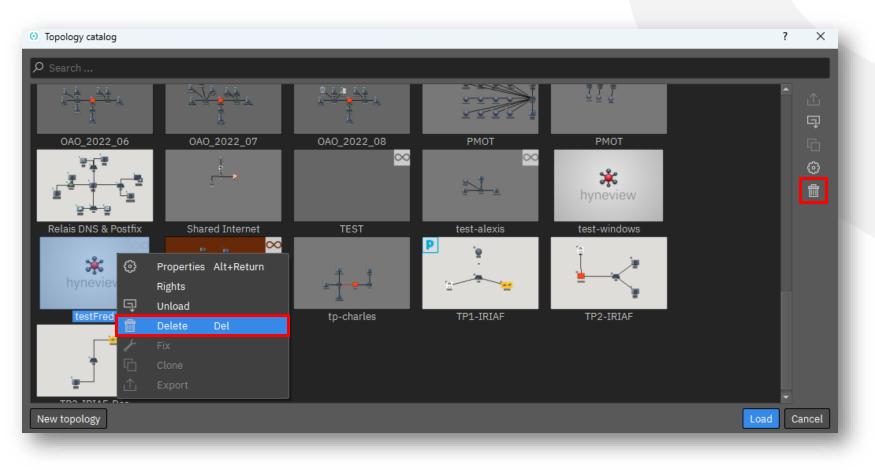


• Unload a topology



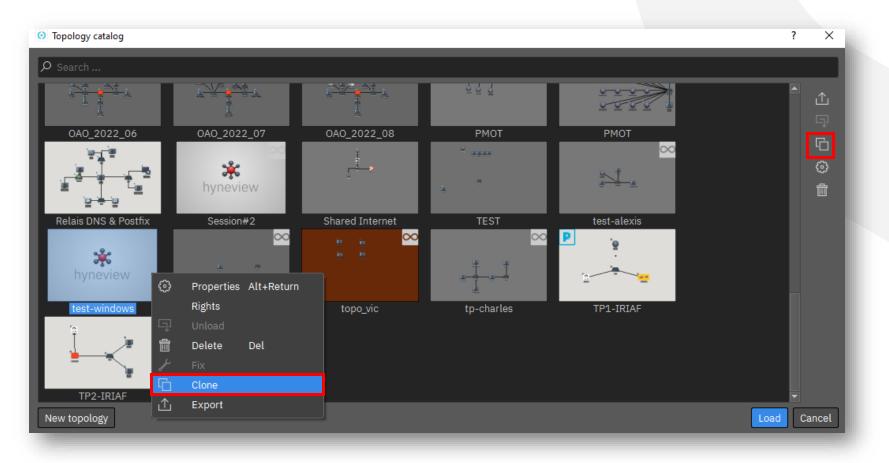


• Delete a topology





• Clone a topology



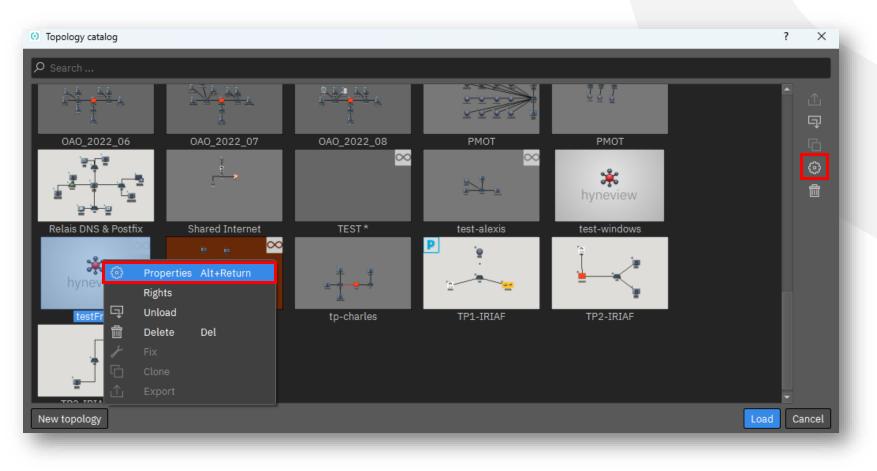
• DIATEAM

• Clone a topology

😟 Clone Topology		? ×
Choose the type of the clone: f<u>ull clone</u> <u>l</u>inked clone rebased clone 		
Number of clones:	1	
Current name	Clone name	
TEST	TEST cloned	
Keep MAC addresses	ОК	Cancel

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• Topology properties







• Topology properties

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Topology	Load balancing	Tools	Default wire color	Topology properti	es Layout	Grid mode	Show labels	Show statuses
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Topology Management

• Topology properties

Properties: TEST >		? ×	O Properties: TEST >	? >	×
System Short name: General Long name: Options Description: Other Description:	TEST		System Persistent ♥ ☆ General ☆ Options Other ☆ Details		
Tags: Destination Catalog: (System General Options Other Details	es: TEST > Name TEST UUID 13242160-7d8c-4850-adf2-4862efb8fe14 Path Topologies Catalog: Created 06/12/2022 10:30 Last modified 26/01/2023 10:27		ncel App	ply
ATEAM	www.dia	iateam.net – contact@diateam.net - @	Cancel Apply DIATEAM_Labs		

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Topology Management

Topology navigate

Θŀ	hyneview 4.4.0 (rev f5aff5b212) PRO - Dl
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	testFred *
	TEST *
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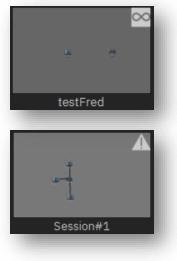
Opened Topologies	∃⊗
testFred * TEST *	×
Topology overview	∃⊗
	Î
10	
Topology content	⋳⊗
Y Undefined(1) ⊞ Switch	
Monitoring	∃⊗
Property Value	



• Topology statuses

• Running in background

• Problem, need fix



• Cloning status

• Topology has children





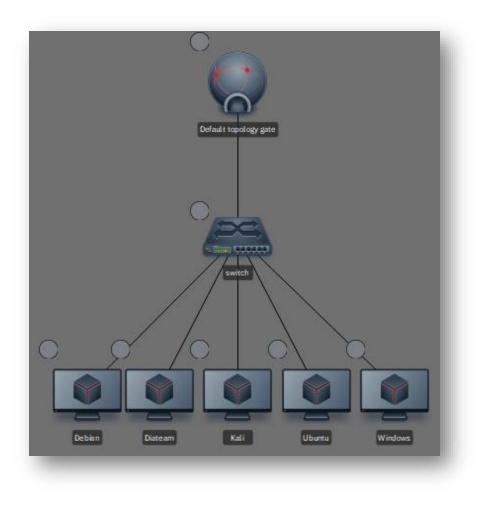
Topology Management

• Customize a topology

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				OK Cancel			

Topology Management

• Customize a topology



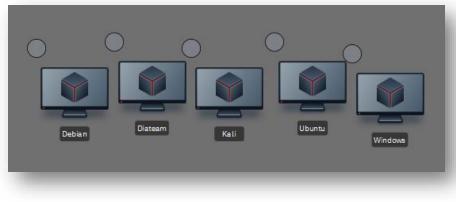




• Customize a topology

Topology Load balancing Tools Default wire color Topology properties Layout Grid mode Show labels Show status	TEST	٥	*	A 1. 1.	æ	<u>ب</u>		Aa	
	Topol	ogy	Load balancing	Tools	Default wire color	Topology properties Layout	Grid mode	Show labels	Show statuses
	-	_						_	_

• Grid mode









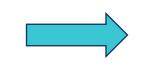
Topology Management

- Customize a topology
 - Show labels



• Show statuses







Node 0

Node 0

Node 0



Entity Management

- Differents entities
- Entity Catalog tools
- Create a new entity
- Status entity
- Clone an entity
- Remove an entity
- Customize an entity



Entity Management

• Differents entities

• Switch

• TopologyGate

• Hydrid cards



• Diode

• Domain





- Entity Catalog tools
 - Add folder
 - Export
 - Delete
 - Clone
 - Properties
 - Link between parent and clone(s)
 - Expand all folders
 - Reduce all folders
 - Search

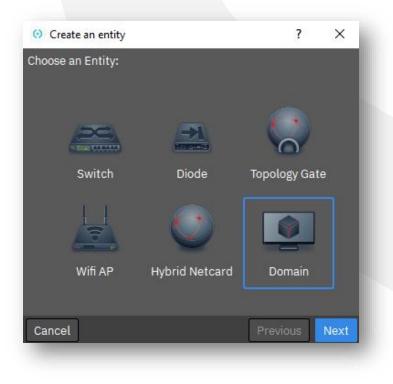
Entity Catalog	ð	8
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ρ Search		
admin@hynesim master		
Otraining entities		
🕨 🛅 Architecture 1 - Pfsense -Yaya		
🕨 🛅 Architecture 2 - Relai Postfix - Yaya		
▶ 🛅 Base entities		



Entity Management

• Create a new entity

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⊻	<u>I</u> mport		
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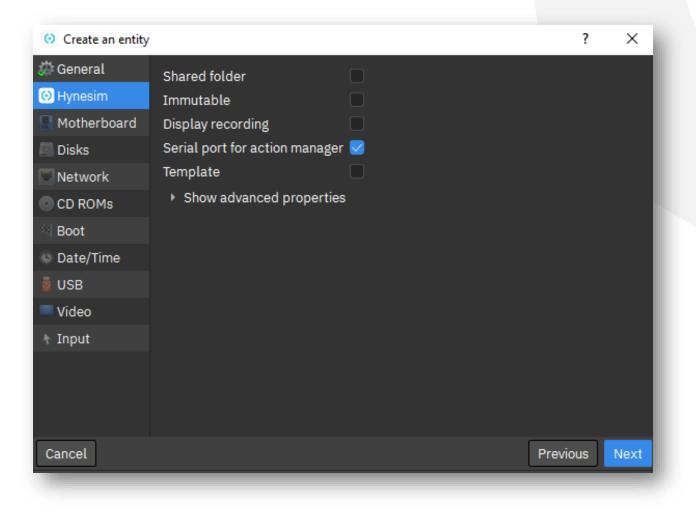


• General Tab

😟 Create an entity			?	×
🏟 General	Short name:	Default domain		
💿 Hynesim	Long name:			
📕 Motherboard	Long hame.			=
Disks	Description:			
Network				
CD ROMs				
Sel Boot				
💿 Date/Time				
👼 USB				
Video				
✤ Input	T			
	Tags:			
	Destination Catalog:	Entities Catalog		~
	Destination Folder:	1		~
Cancel		Prev	rious	Next



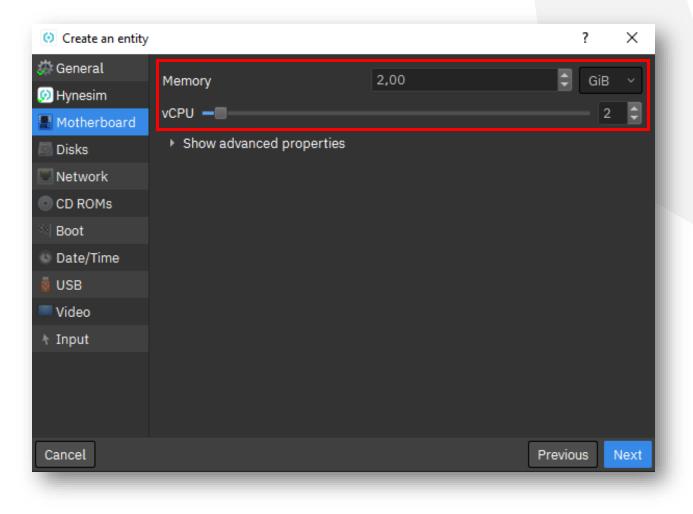
• Hynesim Tab



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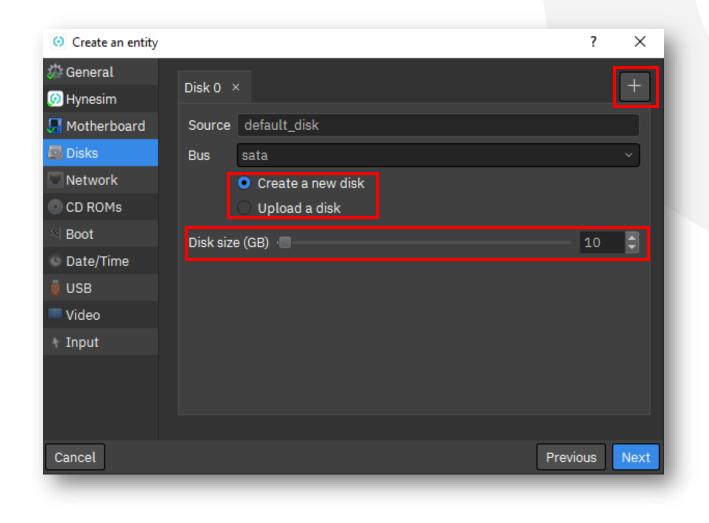
Entity Management

• Motherboard Tab



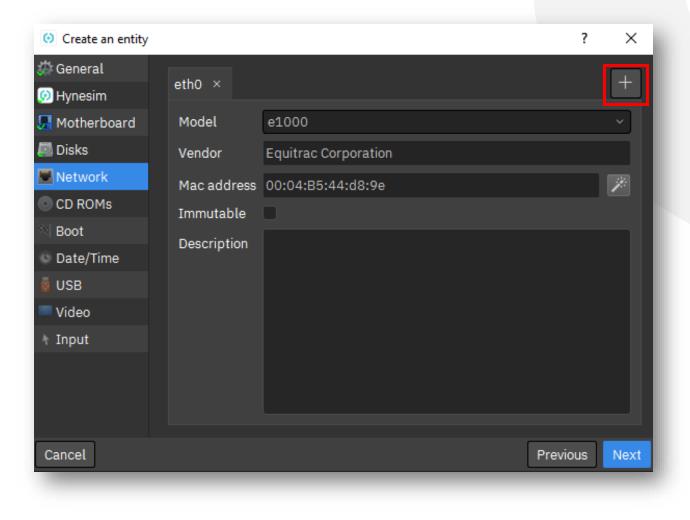
OIATEAM

• Disks Tab



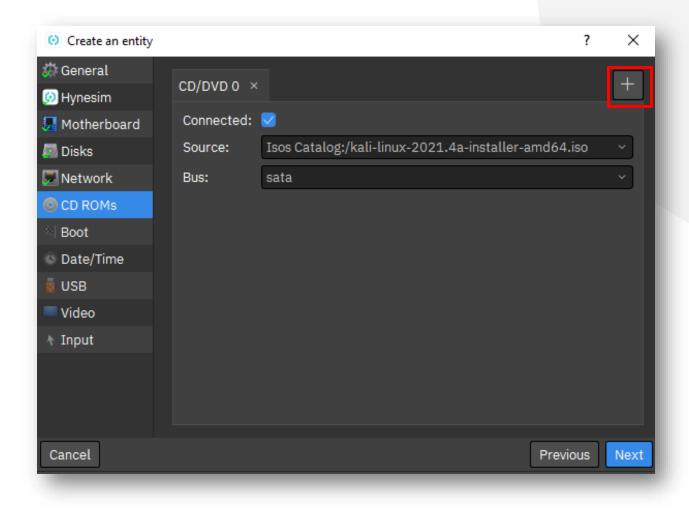


• Network Tab



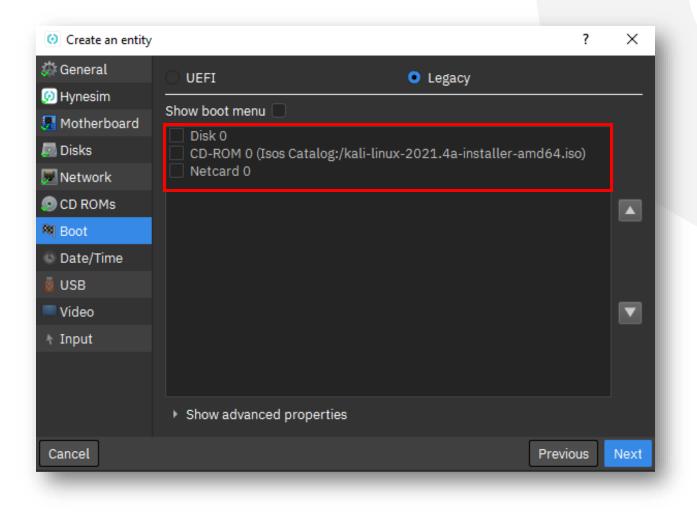


• CD ROMs Tab



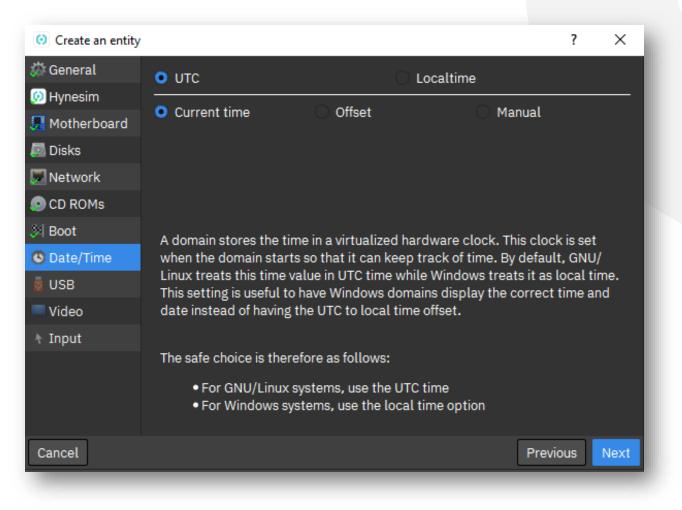
OIATEAM

• Boot Tab





• Date/Time Tab



OIATEAM

Entity Management

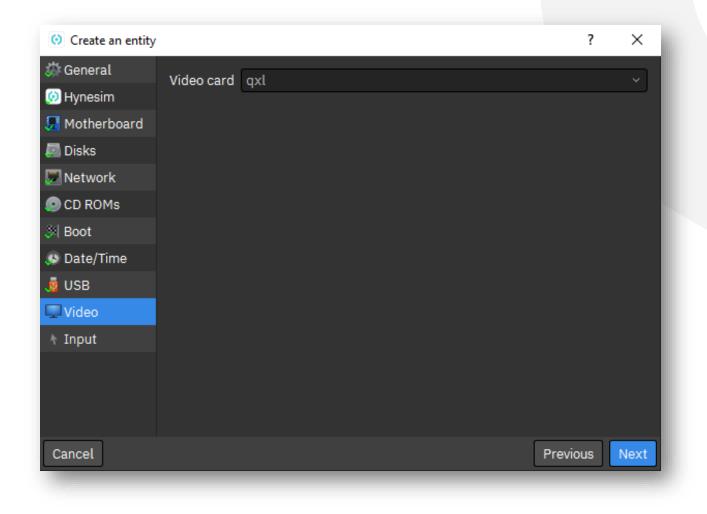
• USB Tab

😟 Create an entity			?	×
🔅 General	USB controller version	USB 2		~
😥 Hynesim 🎩 Motherboard	USB redirections	2		\$
Disks				
Network				
📀 CD ROMs				
💐 Boot				
🔊 Date/Time				
👩 USB				
Video				
1 Input				
Cancel			Previous	Next



Entity Management

• Video Tab



OIATEAM

Entity Management

• Input Tab

😟 Create an entity			?	\times
🎎 General	Input (×		+
📕 Motherboard	Туре	tablet		$\overline{}$
👼 Disks	Bus	Jsb		$\overline{}$
💹 Network				
📀 CD ROMs				
🔉 Boot				
🔊 Date/Time				
🧕 USB				
💭 Video				
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Cancel			Previous	reate



Iso Management

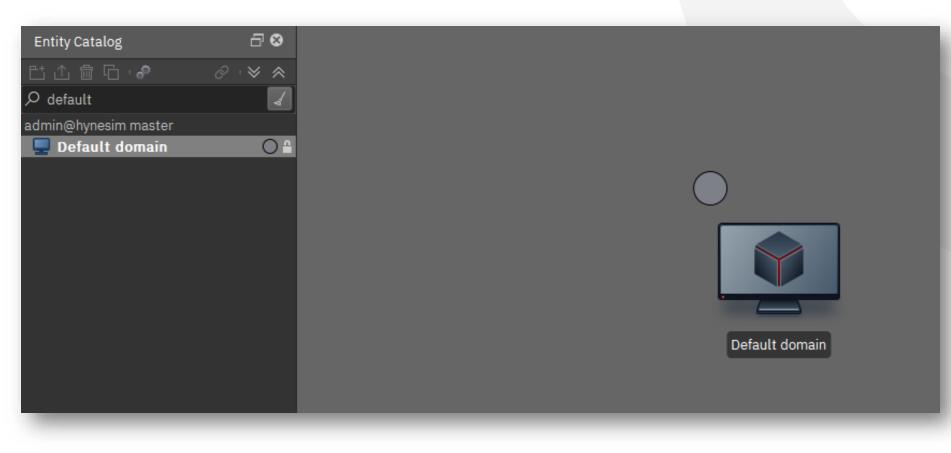
• ISOs Manager

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TES	т*	⊎	<u>I</u> mport		
		0	ISOs <u>M</u>	anager	
			Create	a new entit	y
Def	ine ~		Manag	e topology g	gates ow

(*) ISOs Manager ? × Isos Catalog:/ubuntu-22.04-desktop-amd64.iso Isos Catalog:/ubuntu-mate-21.10-desktop-amd64.iso Isos Catalog:/wallpaper.iso Isos Catalog:/win10_21H2_French_x64.iso Isos Catalog:/Win10_21H2_French_x64.iso Isos Catalog:/Win11_EnglishInternational_x64v1.iso Isos Catalog:/Windows/7601.24214.180801-1700.win7sp1_ldr_escrow_CLIENT_PROFESSIONAL_x64FRE_en-us.iso Isos Catalog:/Windows/Vin10_21H1_French_x64.iso Isos Catalog:/Windows/Win10_21H1_French_x64.iso Isos Catalog:/Windows/Win10_21H2_English_November2021_x64.iso Isos Catalog:/WindowsTool.iso Isos Catalog:/Zorin-OS-16.1-Core-64-bit.iso

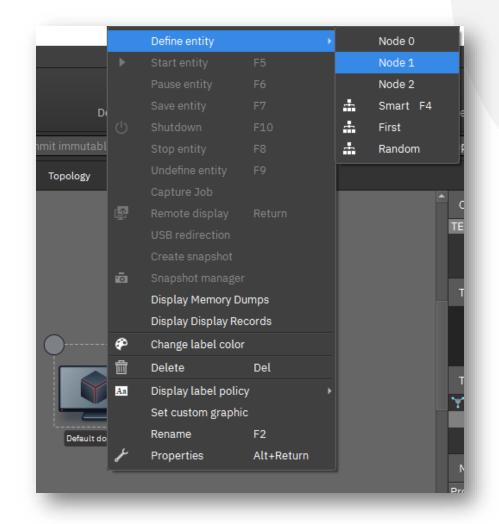


- VM is added in Entity Catalog
 - You can drag and drop the VM in the Topology Area for use it





• Define entity in another Node



OIATEAM

• Status entity

- Undefine
- Define/Stop
- Start
- Save
- Pause



• Clone an entity

Entity Catalog	G	Clone	
ビ 企 前 G 🥜		Move	
🔎 Search	企	Export	
占 D&R_PINPIN			
🖿 D&R_YAYA			
DemoFIC_01 cloned		Rename	F2
DETECT_AND_REAC		Set custom graph	ic
DETECT_AND_REAC			
🗋 entite_vic		Remove from cate	egory
🕒 FredTest		List topologies	
💻 cccc	侖	Delete	Del
💻 Debian		Delete	Det
🔗 Default topology g		Rights	
🛗 Default Wi-Fi AP	\$	Properties	Alt+Return
🖳 Diateam			
💻 Kali		•	•

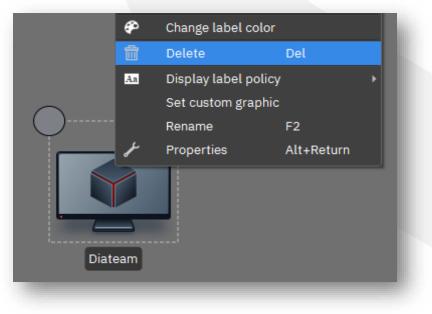
Onfirmation requested	?	×
Choose the type of clone :		
• full clones		
○ linked clones		
Number of clones:	1	٦
Current name	Clone name	
Diateam	Diateam cloned	
		- 11
		- 11
		- 11
Destination folder		
Same as origin folder		~
Destination catalog:		
Entities Catalog		~
Keep MAC addresses		
	ОК Са	ncel



Entity Management

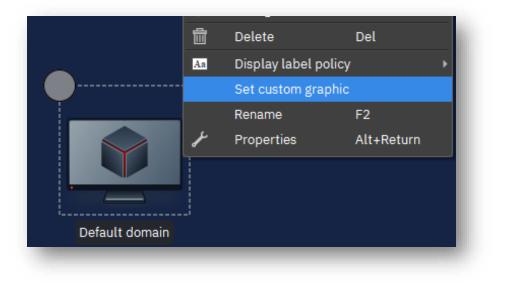
• Remove an entity

		Clone	
ビ 企 歯 石 🧳		Move	
O Search	企	Export	
D&R_PINPIN			
🖞 D&R_YAYA			
DemoFIC_01 cloned		Rename	F2
DETECT_AND_REACT		Set custom gra	phic
DETECT_AND_REACT - hns01@euspa.			
💾 entite_vic		Remove from ca	ategory
🗂 FredTest		List topologies	
	俞	Delete	Del
🚽 Debian			
🧟 Default topology gate		Rights	
🛗 Default Wi-Fi AP	÷	Properties	Alt+Return
💻 Diateam			
💻 Kali		•	



Entity Management

• Customize an entity



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kali.svg ubuntu.svg windows.svg windows.svg Custom size: Witdh: 128px Height: 128px	Current size: 128 by 128 px	م			
kali.svg ubuntu.svg windows.svg windows.svg Custom size: Witdh: 128px Height: 128px	C	O	O		
Driginal size: / Keep ratio / Custom size: Witdh: 128px Height: 128px	debian.svg	default.svg	default_blanc.svg		
Driginal size: / Keep ratio / Custom size: Witdh: 128px + Height: 128px					
Original size: / Keep ratio / Custom size: Witdh: 128px	kali.svg	ubuntu.svg	windows.svg		
/ Keep ratio / Custom size: Witdh: 128px CHeight: 128px			Ê∱Add a new icon		
/ Custom size: Witdh: 128px CHeight: 128px	Original size:		📅 Delete		
	✔ Keep ratio				
Restore Defaults Close Apply	✓ Custom size:	Witdh: 128px 🗘 Heig	ght: 128px		¢
	Restore Defaults		Close	Арр	ly

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Entity Management

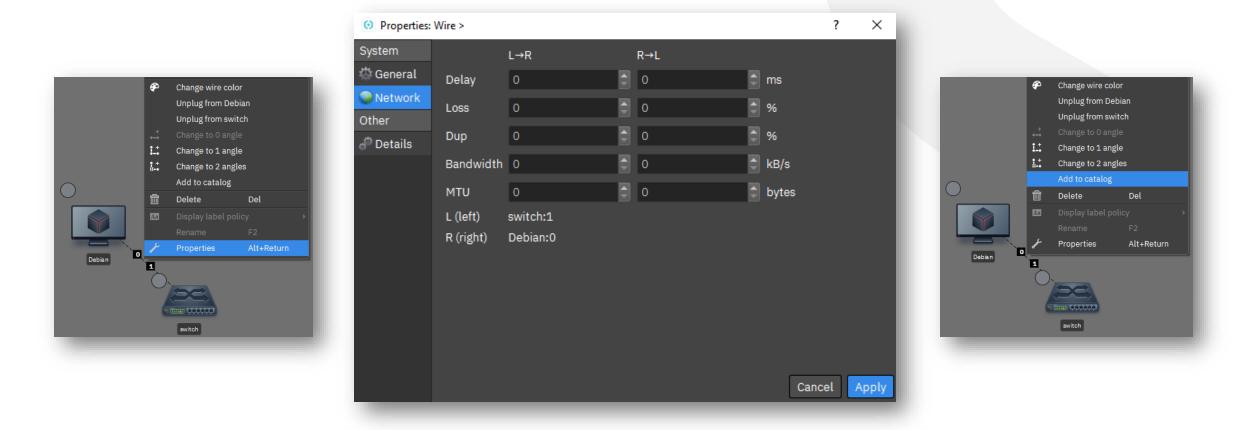
• Customize an entity







• Wire properties



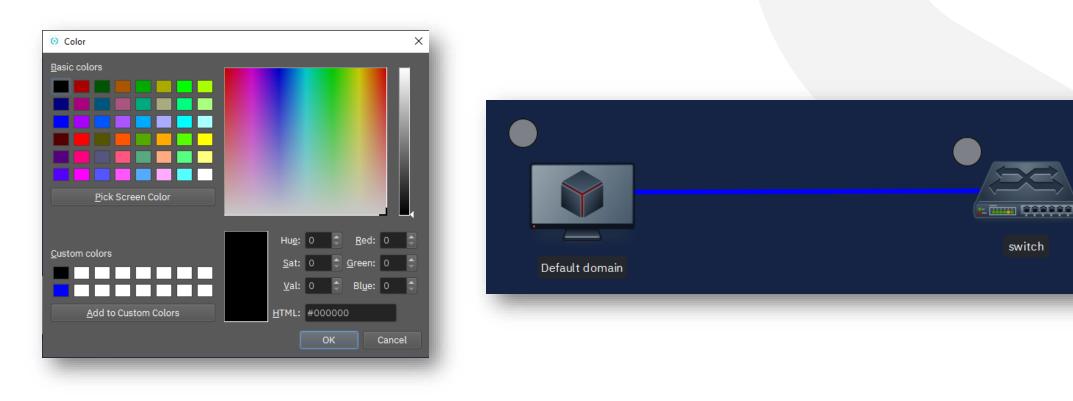


- Customize a wire
 - Colors

TEST \Diamond Topology	Load balancing Tools	P Default wire color	Topology properties Layout	Grid mode Show labels Show statuses
	d balancing Tools Stop Toggle entity immutability Commit i	Define entity F4 Start entity F5	Grid mode Show	
	τοι	Pause entity F6 t manager Save entity F7 Stop entity F8 Undefine entity F9 Change wire color Unplug from Default domain	Memory Dumps USE	
		Unplug from Certaint domain Unplug from switch Change to 0 angle Change to 1 angle Change to 2 angles Add to catalog		
		Delete Del Display label policy Rename F2 Properties Alt+Return		
	Default domain		switch	

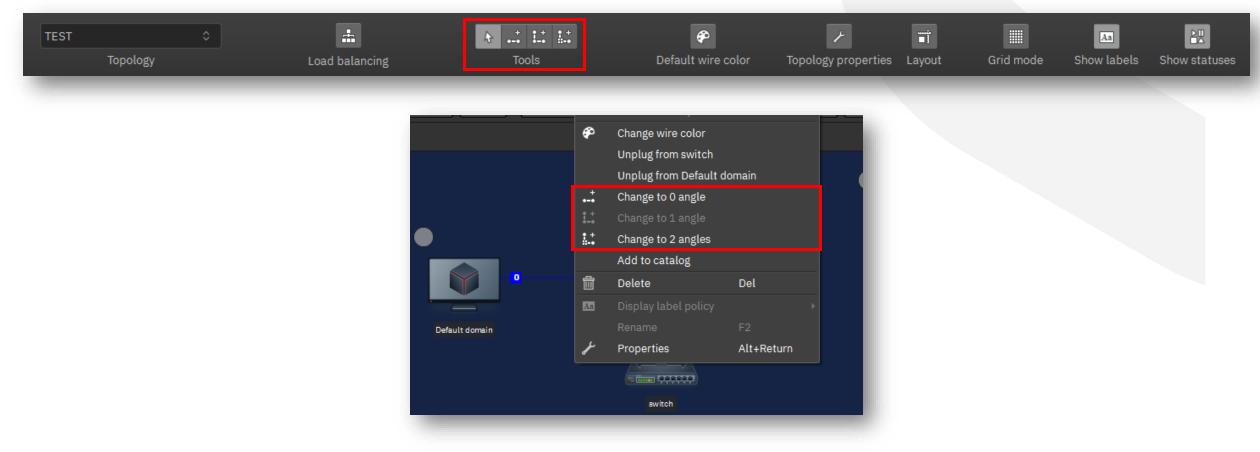


- Customize a wire
 - Colors





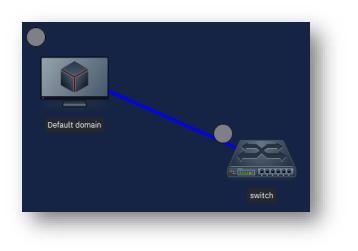
- Customize a wire
 - Shape tools



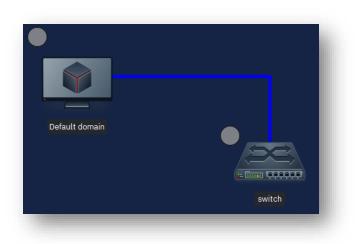


Wire Management

- Customize a wire
 - Shape options

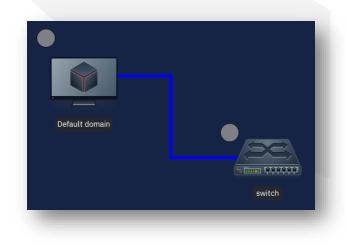


0 angle



1 angle

2 angles







- USB redirection
- Capture job (Wireshark)
- Memory dumps
- Snapshots manager
- Print
- Screenshot

	Capture Job		
P	Remote display	Return	
	USB redirection		
	Create snapshot		
0	Snapshot manager		
	Display Memory Dur	nps	
	Display Display Rec	ords	



Features

- USB redirection
 - Required software installation : UsbDk
 - First point : Define the USB redirection when we create the entity into configuration tabs.
 - Second point : Start the entity and double click to open a new tab that permit to interact with the entity (screen offset).
 - Third point : When we are in this tab, we can access to « USB redirection ».
 - This option permit to configure USB device to be active for the entity.

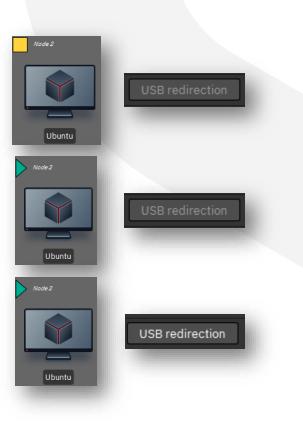


USB redirection

- - Entity is defined or undefined

• Entity is started **and** no screen offset

• Entity is started **and** screen offset is activate





Features



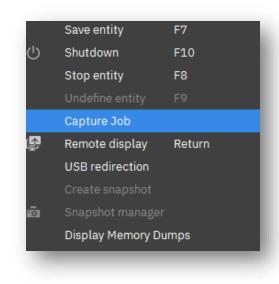
• USB redirection

edirect	Manufacturer	Product	Descriptor	Bus	Address	Connected	Connected by another session
]	Broadcom Corp.	Device	[0a5c:5843]	2	9	No	No
	Sunplus Innovation Technology Inc.	Device	[1bcf:28cc]			No	No
	Intel Corp.	Device	[8087:0026]		11	No	No
/	Lexar Media, Inc.	JumpDrive Tough	[05dc:a838]		14	No	No
	USB	Device	[ffff:bace]			No	No
Usb Mai usb devie	nager ce(s) can be redirected	=					Close Apply
usb devi SB device	ce(s) can be redirected es:		2			2	
usb devio SB device redirect	ce(s) can be redirected es: Manufacturer	Product				Connected	? > Connected by another session
usb devio SB device redirect	ce(s) can be redirected es:	Product Device	Descriptor [0a5c:5843]		Address 9	Connected No	?)
usb devic SB device redirect	ce(s) can be redirected es: Manufacturer	Device		2			? > Connected by another session
usb devid SB device redirect	ce(s) can be redirected es: Manufacturer Broadcom Corp.	Device	[0a5c:5843]	2 2	9	No	Connected by another session
usb devic SB device redirect	ce(s) can be redirected es: Manufacturer Broadcom Corp. Sunplus Innovation Technology Inc.	Device Device	[0a5c:5843] [1bcf:28cc] [8087:0026]	2 2 2	9 7	No No	Connected by another session No No

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Features

- Capture job
 - Required software installation : Wireshark
 - Enable when entity is defined, and disable when entity is undefined
 - When entity is started, you can have the access to « Capture Job » entity sub menu







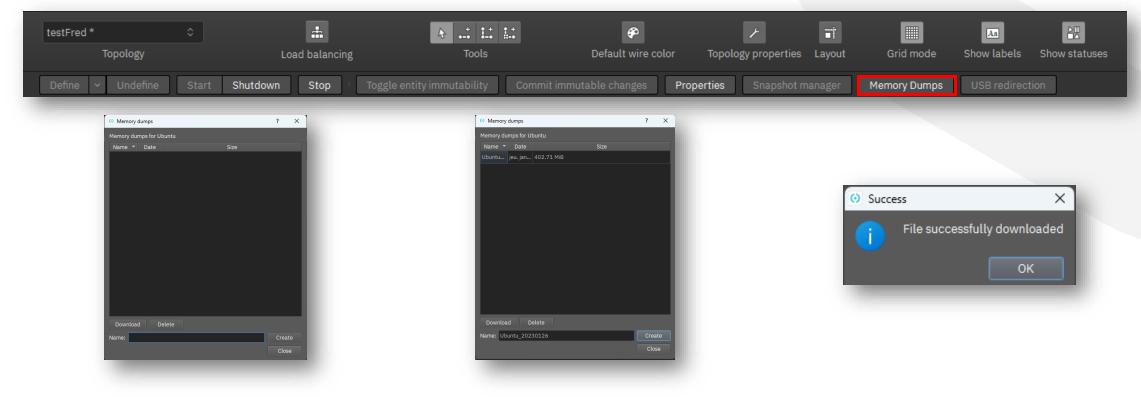
• Capture job

😟 Ubuntu: capture	e job management									?	×
Interface:	eth0	~	Interface	 Creation date 	End date	Time limit	Packet limit	Filters	Packet count	Size	
Time limit:	0 seconds	٢									
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										Close	e



Features

- Memory dumps
 - Required software installation : 7zip, winzip, winrar, ...
 - Enable when entity is defined, and disable when entity is undefined







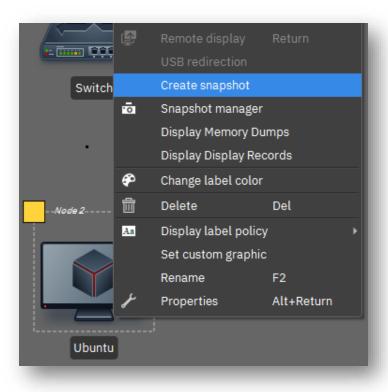
• Memory dumps

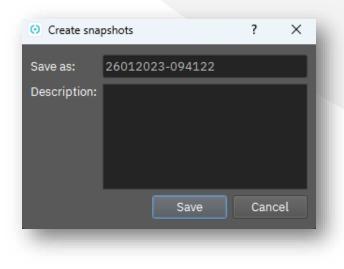
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- → ~ ↑	 ✓ ① ② ④ ☑ ✓ dump > 20230126_0919_Ubuntu 	_20230126.dump.tar > 2 Statut	0230126_0919_Ubuntu_202	30126.dump		Synchronisation ~ Rechercher dans : 20230126_0919_Ubuntu_202



Features

- Snapshots manager
 - Enable when entity is defined, and disable when entity is started
 - Permit to keep a save instance of virtual machine









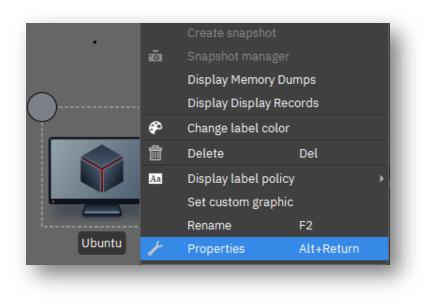
• Snapshots manager

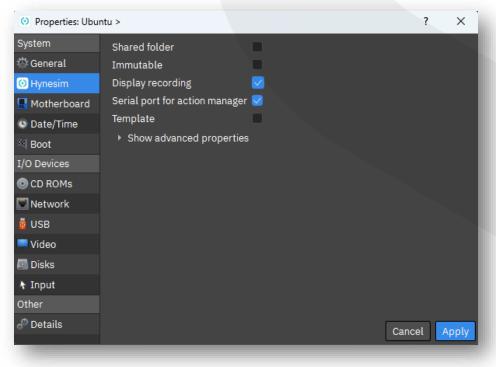
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		Name Creation Date Description 26012023-094122 26/01/2023-09:46:01	Name: 26012023-094122	
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Ō	Snapshot manager			
	Display Memory Dumps			
	Display Display Records			
P	Change label color			
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	Set custom graphic			
	Rename F2			
بر 🚽	Properties Alt+Return			

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- Record session
 - This property option is accessible only when entity is undefined







- Record session
 - Start the entity

• Configure your entity



Node 2



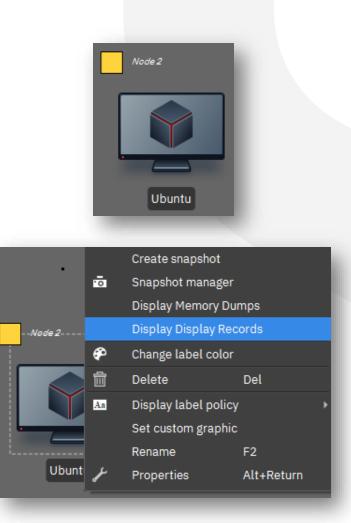
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Features



- Record session
 - Stop your entity

• Display the record





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• Record session

• Display all saved session realized

• Download the corresponding video file

	(i) Display records ? X
	Display records for Ubuntu
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• Print

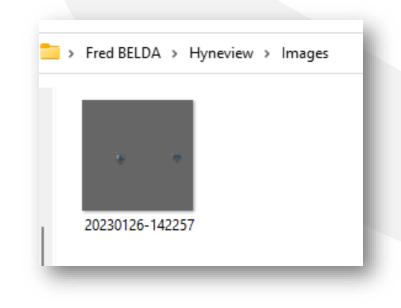
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Features

• Screenshot

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MANY THANKS ! QUESTIONS ?