

MagicFlex Smart Analysis v4.2 Installation Guide



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1 System Requirements

This section describes the specific port, hardware, and software, requirements for installing MagicFlex Smart Analysis.

1.1 Port and Protocols Used by MagicFlex

This section describes the required and optional ports and protocols that are used by the MagicFlex system.

Source	Target	Port	Protocol or Description
User's workstation	Virtual appliance	443	ТСР
Virtual appliance IP address	HPE Virtual Connect Management IP address	22	ТСР
Virtual appliance IP address	HPE Onboard Administrator Management IP address	22	ТСР
Virtual appliance IP address	HPE H3C Switch Management IP address	22	ТСР
Virtual appliance IP address	Cisco Catalyst Switch Management IP address	22	ТСР
Virtual appliance IP address	Cisco Nexus Switch Management IP address	22	ТСР
Virtual appliance IP address	Brocade SAN Switch Management IP address	22	ТСР
Virtual appliance IP address	VMware vCenter Server IP address	443	ТСР
Virtual appliance IP address	HPE OneView Appliance IP address	443	ТСР
Virtual appliance IP addss	Mail server	25	ТСР

Table 1 Ports Used by MagicFlex





1.2 System and Hardware Requirements

This section describes the MagicFlex minimum storage, memory, and system requirements for installation.

System Component	Requirement
Storage	100 GB disk space
CPU	4 CPUs
Memory	8 GB RAM
Network	1 NIC
Platform	 VMware vSphere 5.0 and later Microsoft Hyper-V 2012 R2 and later

Table 2 System and Hardware Requirements

1.3 Supported Browsers

MagicFlex Smart Analysis v4.2 supports the following Web browsers.

- Google Chrome 31 and later
- Mozilla Firefox 25 and later

1.4 Supported Platforms and Products

MagicFlex Smart Analysis v4.2 supports the following platforms and products:

- HPE Virtual Connect interconnect devices (VCM and OneView)
- HPE BladeSystem c-Class Enclosure
- HPE Synergy Enclosure (OneView)
- HPE H3C Ethernet switches
- Cisco Catalyst Ethernet switches
- Cisco Nexus switches 5000 series and 7000 series
- Brocade SAN switches, including OEM branded switches
- Cisco MDS SAN switches
- VMware vCenter



2 Installing MagicFlex Smart Analysis

This section describes the process for installing MagicFlex Smart Analysis in both VMware and Hyper-V environments.

2.1 Deploying MagicFlex Smart Analysis Appliance in a VMware vSphere Environment

MagicFlex Smart Analysis is deployed by using the virtual appliance provided in the template.

2.1.1 Select Deploy OVF Option

Right-Click where you want to deploy the MagicFlex appliance, and choose Deploy OVF Template...

>



2.1.2 Choose File to Deploy

Choose the local file and browse to select the MagicFlex OVA file.

Deploy OVF Template		(?) ₩
Source 1a Select source 1b Review details 1c Accept License Agreements 2 Destination	Select source Select the source location Enter a URL to download and install the OVF package from the Internet, or browse to a location accessible from your of such as a local hard drive, a network share, or a CD/DVD drive. URL URL	computer,
 2a Select name and folder 2b Select storage 2c Setup networks 2d Customize template 3 Ready to complete 	● Local file Browse \\netapp01\Share01\MagicFlex\MagicFlex-v4.0-Build-1.15.0-049.ova	
	Back Next Finish	Cancel

Click Next.



2.1.3 Confirm Deployment Details

Confirm the deployment details and click Next. If there are corrections to make, click Back.

Dep	Deploy OVF Template						
1 Source Review details ✓ 1a Select source Verify the OVF temp			plate details				
× × × ×	1b Review details 1c Accept License Agreements 2 Destination 2a Select name and folder 2b Select storage 2c Setup networks 2d Customize template 3 Ready to complete	Product Version Vendor Publisher Download size Size on disk Description	MagicFlex 4.0 MagicFlex Analysis Software Ltd. ③ No certificate present 1.2 GB 3.1 GB (thin provisioned) 100.0 GB (thick provisioned) MagicFlex Smart Analysis Appliance				
			Back Next Finish	Cancel			



2.1.4 Accept License Agreements

Read and Accept the license agreements, then click Next.

Deploy OVF Template		? >>
1 Source	Accept License Agreements You must read and accept the license agreements associated with this template before continuing.	
✓ 1b Review details		
1c Accept License Agreements	MAGICFLEX, LTD. END USER LICENSE AGREEMENT	<u>^</u>
2 Destination 2a Select name and folder 2b Select storage 2c Setup networks 2d Customize template 3 Ready to complete	Magicflex Analysis Software Ltd. ("MAGICFLEX") and your company, and you as an authorized representative of your company agree to review and comply with the terms of this End User License Agreement ("EULA"). In this EULA, you and your company shall be collectively referred to as the "Licensee." This EULA is a legal agreement between Licensee and MAGICFLEX for the MAGICFLEX, made available to Licensee (the "Software") and related printed or electronic materials (the "Documentation"). IMPORTANT - PLEASE READ CAREFULLY	
	INDIS A LEGAL AGREEMENT BE IVEEN LICENSEE AND MAGICPLEA FOR THE SOFTWARE, THE DOCUMENTATION AND SUPPORT SERVICES. THIS AGREEMENT IS SUBJECT TO CERTAIN TERMS AND CONDITIONS CONTAINED IN A SEPARAT WRITTEN AGREEMENT EXECUTED BY YOU AND AN AUTHORIZED REPRESENTATIVE OF MAGICPLEX PURSUANT TO WHICH YOU HAVE OBTAINED THE RIGHT TO USE THE SOFTWARE, THE DOCUMENTATION AND SUPPORT SERVICES IN ACCORDANCE WITH THE TERMS OF THIS AGREEMENT (THE "ORDER"), WHICH IS INCORPORATED HEREIN BY REFERENCE. BY CLICKING ON THE TAGREE" BUTTON, LICENSEE ACKNOWLEDGES THAT IT HAS READ AND UNDERSTANDS THE FOLLOWING TERMS AND AGREES TO BE BOUND BY THEM. IF LICENSEE DOES NOT AGREE TO THESE TERMS, MAGICFLEX IS UNWILLING TO GRANT LICENSEE RECEIVED THIS SOFTWARE ON MAGNETIC MEDIA, CD-ROM OR A MAGICFLEX APPLIANCE, LICENSEE SHOULD PROMPTLY RETURN THE UNUSED SOFTWARE TO MAGICFLEX AND LICENSEE MAY OBTAIN A REFUND IN ACCORDANCE WITH MAGICFLEX'S THEN-CURRENT SOFTWARE REFUND POLICY Accent	TE 5 11 1, 1, ↓
	Back Next Finish Ca	ncel



2.1.5 Select a Name for the Virtual Machine and a Folder for Deployment

Select the name for your deployment (default is MagicFlex), and in which folder to deploy the application, and click Next.

Deploy OVF Template			?)
1 Source 1 a Select source 1 b Review details	Select name and folder Specify a name and location for the deployed temp Name: MagicFlex	plate	
 1c Accept License Agreements 2 Destination 2a Select name and folder 2b Select storage 2c Setup networks 2d Customize template 3 Ready to complete 	Select a folder or datacenter Select a folder or datacenter Search Select a folder or datacenter Main_Datacenter Cisco_UCS Cisco_UCS Ciscovered virtual machine Commain_Controllers MagicFlex_Analysis MagicFlex_Analysis Misc Networking ConeView Replicated_VMs Templates VDL_Golden_Images VDL_Golden_Images Cirtual_Connect	The folder you select is where the entity will be will be used to apply permissions to it. The name of the entity must be unique within e Server VM folder.	located, and ach vCenter
	► ► VMware Nested ESXi	Back Next Finish	Cancel



2.1.6 Select Virtual Disk Format & Datastore

Select the appropriate virtual disk format and the datastore/datastore cluster, then click Next.

De	ploy OVF Template									? »
~	1 Source 1a Select source	Select storage Select location to store the	files for th	ne deployed temp	late					
~	1b Review details	Select virtual disk format:	Thin Prov	vision		•	1			
~	1c Accept License Agreements	VM Storage Policy:	Datastor	e Default		•	0			
~	2 Destination 2a Select name and folder	The following datastores a virtual machine configurat	are access ion files ar	sible from the des nd all of the virtua	stination resou I disks.	rce th	nat y	ou selected. Select	the destination da	atastore for the
	2b Select storage	Name		Capacity	Provisione	1		Free	Туре	Storage DRS
	2c Setup networks	Prod		2.97 TB	1.25 TB			1.72 TB		Enabled
	2d Customize template	NetApp_VDI_Golden	Images	190.00 GB	228.32	в		149.59 GB	NFS v3	
	3 Poady to complete	NetApp_Templates		190.00 GB	430.43 0	В		126.74 GB	NFS v3	
	5 Ready to complete	iscsi		99.50 GB	2.89 GB			96.61 GB		Enabled -
		•		:				•		
		Disable Storage DRS f	or this virtu	ual machine						
		Name		Capacity	Provisione	1		Free	Туре	Thin Provision
		NetApp_Prod_02		1.49 TB	2.38 TB			829.26 GB	NFS v3	Supported
		NetApp_Prod_01		1.49 TB	2.20 TB			930.69 GB	NFS v3	Supported
		4								Þ
								Back	Vext Finis	h Cancel



2.1.7 Select a Network

Select appropriate Port Group and click Next.

Deploy OVF Template				?
1 Source	Setup networks Configure the networks the deploy	yed template should use		
 1b Review details 	Source		Destination	Configuration
 Accept License Agreements 	LAN	PG_VM_LAN		 ▼ ✓
2 Destination				
 2a Select name and folder 				
 2b Select storage 				
2c Setup networks	IP protocol: IPv4		IP allocation: Static - Manual 🚯	
2d Customize template				
3 Ready to complete	Source: LAN - Description			
	The LAN network			
	Destination: PG_VM_LAN - Proto	col settings		
	No configuration needed for this r	network		
			Back Next	Finish Cancel

2.1.8 Configure Network Settings

Configure the Network Settings.

Note: It is recommended to work with static settings, although some or all of the settings may be allocated dynamically via DHCP.

2.1.8.1 Configure DNS

If working statically, configure one or more DNS servers. Multiple DNS servers should be separated with commas.

2.1.8.2 Configure Default Gateway

If working statically, configure the default gateway IP address.

2.1.8.3 Configure Hostname

Configure the Host Name.

2.1.8.4 Configure IP Address

If working statically, configure the IP address of the appliance.



2.1.8.5 Configure Netmask

If working statically, configure the netmask of your IP address.

2.1.8.6 Configure NTP

Configure one or more NTP servers. Multiple NTP servers should be separated by commas. Leave blank to disable time synchronization.

all
el 🔒



2.1.9 Review Summary Details

Review the Summary Screen. If all information is correct, decide if you want to select to Power on after Deployment, and click Finish. If corrections are required, click Back.

Deploy OVF Template				(?) ▶
Deploy OVF Template 1 Source 1a Select source 1b Review details 1c Accept License Agreements 2 Destination 2a Select name and folder 2b Select storage 2c Setup networks 2d Customize template 3 Ready to complete	Ready to complete Review your settings selections bein OVF file Download size Size on disk Name Target Datastore Folder Disk storage Network mapping	ore finishing the wizard. \\netapp01\Share01\MagicFlex\Magic 1.2 GB 3.1 GB MagicFlex Prod_Cluster Prod MagicFlex Thin Provision LAN to PG_VM_LAN Static - Manual IPv4	:Flex-v4.0-Build-1.15.0-049.ov	 ? »
2d Customize template 3 Ready to complete	Network mapping IP allocation Properties	LAN to PG_VM_LAN Static - Manual, IPv4 DNS = 192.168.200.1,192.168.2.2 Default Gateway = 192.168.200.254 Hostname = MagicFlex.lab.local IP Address = 192.168.200.20 Netmask = 255.255.255.0 NTP = 192.168.200.1,192.168.2.2		
			Back Next	Finish Cancel

2.1.10 Follow Deployment Progress

You can follow the Deployment Process in Percentage as it progresses.

😨 Recent Tasks			
Task Name	Target	Status	Initiator
Deploy OVF template	🗗 MagicFlex	33 % 🛞	LAB\\Administrator
Initialize OVF deployment	Prod_Cluster	 Completed 	Administrator@LAB



2.1.11 Start Appliance

If you did not choose to automatically power on the application after deployment, then choose the application, right click, and select Power On.

🚰 Actions - MagicFlex	Within
Power	Power On
Guest OS	Power Off
Snapshots	II Suspend
🛃 Open Console	🕞 Reset
🚑 Migrate	Shut Down Guest OS
Clone	🕨 🚱 Restart Guest OS
Template	•
Fault Tolerance	•

2.2 Deploying MagicFlex Smart Analysis Appliance in a Microsoft Hyper-V Environment

MagicFlex will supply you with the installation files in a zip (compressed) format.

2.2.1 Import MagicFlex Smart Analysis Appliance

2.2.1.1 Extract File from Zip

Extract files from zip. – The extracted files include both the virtual hard disks and the virtual machine configuration files.





2.2.1.2 Import Virtual Machine

Login to a Hyper-V host via Hyper-V Manager.

Right Click on the host, and select Import Virtual Machine.

Hyper-V Manager		
File Action View H	Help	
🗢 🔿 🖄 📰 🛛		
Hyper-V Manager	Virtual Machines	
	New	>
	Import Virtual Machine	
	Hyper-V Settings Virtual Switch Manager Virtual SAN Manager	
	Edit Disk Inspect Disk	
	Stop Service	
	Refresh	
	View	>
	Help	



2.2.1.3 Choose Folder

Choose the folder where the zipped files were extracted using the Browse button, and then click Next.

Import Virtual Machine		×
Locate Folder		
Before You Begin Locate Folder Select Virtual Machine Choose Import Type Summary	Specify the folder containing the virtual machine to import. Folder: C:\Users\Administrator.LAB\Downloads\MagicFlex\	Browse
	< Previous Next > Einish	Cancel



2.2.1.4 Select Virtual Machine

Review the virtual machine, then click Next.

Before You Begin	Select the virtual mach	hine to import:			
Locate Folder	Name	^	Date	Created	
Choose Import Type Summary	MagicFlex		1/18,	2016 3:10:12 PM	



2.2.1.5 Select Import Type

Choose the appropriate Import Type and Click Next.





2.2.1.6 Select a Network

Choose the appropriate Virtual Switch and Click Next.

Import Virtual Machine		\times
Connect Net	work	
Before You Begin Locate Folder Select Virtual Machine Choose Import Type	This page allows you to connect to virtual switches that are available on the destination computer. The following configuration errors were found for virtual machine 'MagicFlex'. Could not find Ethernet switch 'LAN'.	
Connect Network Summary	Specify the virtual switch you want to use on computer "BLSRV2016-01".	
	< Previous Einish Cancel	



2.2.1.7 Review Summary Details

Review the information in the Summary Screen. If ok, click Finish. If there are corrections to be made, click Previous.

Import Virtual Machine		×
Completing	Import Wizard	
Before You Begin Locate Folder Select Virtual Machine	You are about to perfo	rm the following operation. MagicFlex
Choose Import Type Connect Network Summary	Import file: Import Type: Network connection:	C: \Users\Administrator.LAB\Downloads\MagicFlex\Virtual Machines\52D03CEA- Register (keep ID) VLAN3
	<	>
	To complete the import	and close this wizard, click Finish.
		< Previous Next > Finish Cancel



2.2.2 Start MagicFlex Appliance

Right Click on the Virtual Machine and choose Start.

Virtual Machines				
Name	State		CPU Usage	Assigned Memory
MagicFlex	Off	Con Setti Upg Start	nect ngs rade Configurati : ckpoint	ion Version
Checkpoints		Mov Expo Rena Dele Enat	/e ort ame te ole Replication	



2.2.3 Configuring MagicFlex Smart Analysis

After you install MagicFlex Smart Analysis, initiate a console connection and log in to the MagicFlex Appliance Administration console to view and configure system parameters for your MagicFlex system.

Press ESC at any time to return to the Menu Main page.

 Table 3
 Login Credentials for MagicFlex Console

Credential	Value
User name	fmadmin
Password	fmadmin

Chance action:	Main Menu
Network Time Application Troubleshooting Reboot Shutdown Password	Network configuration Time and date settings Application configuration Troubleshooting tools Reboot the appliance Shut down the appliance Change the administration console password
	(Choose) (Evit)

Figure 1 MagicFlex Appliance Administration Console Main Menu Page



2.2.3.1 Viewing System Parameters

You can view the network parameters, routing table parameters, and the network time protocol (NTP) status for your MagicFlex system.

View Network Parameters

- 1. On the Main Menu page, navigate to Network and select Choose.
- 2. On the Network Menu page, navigate to Show and select Choose.

Choose action:	Network Menu
<mark>Shou</mark> Routing Configure	Show active configuration Show routing table Configure network
K Choose	> ≺Return to Main Menu>

3. The network parameters display on the Interfaces Configuration page.



In the above example, the IP address of the MagicFlex Appliance is 192.168.2.242 and the Subnet is 255.255.255.0.

4. Select **OK** to exit the Interfaces Configuration page.



View the Routing Table

- 1. On the Main Menu page, navigate to Network and select Choose.
- 2. On the Network Menu page, navigate to **Routing** and select **Choose**.
- 3. The routing parameters display on the Routing Configuration page.



In the above example, the gateway of the MagicFlex Appliance is 192.168.2.1.1.

4. Select **OK** to exit the Interfaces Configuration page.

View the Network Time Protocol Status

By default, the NTP is configured to the internet NTP.

- 1. On the Main Menu page, navigate to **Time** and select **Choose**.
- 2. On the Date/Time Menu page, navigate to Show and select Choose.

Currei 2017 Choos	Date/Time Menu nt time : Tue May 16 08:25:26 UTC se action:
	ShowShowNTP statusConfigureConfigureNTPZoneConfigure time zone
<	



3. The NTP Status page displays the NTP status.

	NTP Status											
	remote	refi	d st	tυ	when	poll	. re	ach	delay	offset	t jitter	
			DORIAI						IZZZZZI			
0.t	ibuntu.por	il.n	. POOL.		16 p		64	Ø	0.000	0.000	0.000	
1.ι	ubuntu.pod	01.N	.POOL.	1	16 p	-	64	0	0.000	0.000	0.000	
2.ι	ubuntu.pod	ol.n	.POOL.	1	16 p	-	64	0	0.000	0.000	0.000	
												60% -
							<	<u>OK</u>	>			5



2.2.3.2 Configuring System Parameters

You can configure several parameters for system settings, such as network, time and date, and network time protocol.

Configure Network Parameters

By default, the network configuration is set to DHCP.

If necessary, you can configure a static IP address, netmask, gateway, and DNS nameservers for your MagicFlex system.

- 1. On the Main Menu page, navigate to Network and select Choose.
- 2. On the Network Menu page, navigate to **Configure** and select **Choose**.
- 3. Configure the network parameters.

Network Configuration Choose how networking will be configured SPACE to select, ENTER to continue, ESC to cancel											
 (*) dhcp Use DHCP to authomatically obtain network configuration. () static Configure all network parameters manually. 											
< <u>Choose></u> <cancel></cancel>											

Network Configuration Specify network parameters Arrows to navigate, ENTER to continue, ESC to cancel											
IP Address Netmask Gateway DNS Nameservers (space-separated list)											
< OK > <cancel></cancel>											



Configuration Option	Action						
dhcp	To automatically obtain the network configurations, navigate to dhcp and select Choose.						
Static	 To manually enter the network configurations, navigate to static and click Choose. 						
	2. Enter the IP address.						
	3. Enter the Netmask.						
	4. Enter the Gateway.						
	5. Enter the DNS Nameservers						
	6. Click OK.						
	Note: If the new configuration is not applied within five minutes and the console hangs, please reboot the appliance. The new configuration will then be automatically applied.						



Configure the Network Time Protocol Status

By default, the NTP is configured to the internet NTP.

- 1. On the Main Menu page, navigate to **Time** and select **Choose**.
- 2. On the Date/Time Menu page, navigate to **Configure** and select **Choose**.
- 3. On the NTP Configuration page, specify the NTP servers, and select **OK**.

NTP Configuration Specify NTP servers (space-separated list):									
192.168.2.1 192.168.2.2									
< OK > ≺Cancel>									



Configure the Time Zone

- 1. On the Main Menu page, navigate to **Time** and select **Choose**.
- 2. On the Date/Time Menu page, navigate to **Zone** and select **Choose**.

On the Time Zone configuration page, configure the time zone parameters, configure the time zone parameters.

- a. Select a Geographic area, and select OK.
- b. Select a city or region, and select OK.

Please select the geographic area in narrow this down by presenting a lis are located. Geographic area:	Configuring tzdata which you live. Subsequent configuration questions will t of cities, representing the time zones in which they
	Africa America Antarctica Australia Arctic Ocean Asia Atlantic Ocean Europe Indian Ocean Pacific Ocean System V timezones US None of the above
<0k>	<cancel></cancel>

3 Getting Started with the MagicFlex UI

After you install and configure the MagicFlex system, you access the MagicFlex UI to monitor devices and collect data and/or generate a report.

To begin, open your web browser (Firefox or Google Chrome) and navigate to the MagicFlex web interface via the appliance's IP address.

3.1 Appliance IP Address

In order to determine the IP address of the MagicFlex appliance, follow the relevant procedure for your installation.

3.1.1 VMware - Display Appliance IP Address

There are two method to display the IP Address in a VMware environment.

3.1.1.1 VMware - Display Appliance IP Address from vCenter Inventory

Select the MagicFlex virtual machine in the vCenter inventory, and select Summary. The IP address is displayed under IP Addresses.

Actions	-		
Getting Started Summary	Monit	or Manage	Related Objects
Agarta surt and a galaxies	1	MagicFlex	
[4] KOROL MERICA Davida Schurbert, Donale Sci memory (2014) and Active Sciences and Active Architectures.		Guest OS:	Ubuntu Linux (64-bit)
i Barrande - Handiger Facultaria Martin a formation - Barrando - Antonio - Antonio - Santa Antonio - Anton		Compatibility:	ESXi 6.0 and later (VM version 11)
#013.00045_10014		VMware Tools:	Running, version:2147483647 (Guest Managed)
		DNS Name:	MagicFlex.lab.magic-flex.com
	l ſ	IP Addresses:	192.168.2.28
Powered On	۱ '	Host:	esxiprod03.lab.magic-flex.com
Launch Remote Console		A 🔊 🗖	A .
Download Remote Console	0	🐼 🛸 🖻	\$*



3.1.1.2 VMware - Display Appliance IP Address from Console

Right click on the MagicFlex virtual machine in the vCenter inventory, and select Open Console.



The IP address is displayed on the login screen.

MagicFlex Smart Analysis Appliance
To access MagicFlex web interface, browse to:
https://192.168.2.28/
In order to change networking or time preferences, login into this console and follow the on–screen instructions
Username: fmadmin Password: fmadmin
More information is available at http://www.magic-flex.com
MagicFlex login:



3.1.2 Hyper-V - Display Appliance IP Address

Right click on the MagicFlex virtual machine in Hyper-V inventory, and select Connect.

Connect	
Settings	
Turn Off	
Shut Down	
Save	
Pause	
Reset	
Checkpoint	
Move	
Export	
Rename	
Enable Replication	
Help	

The IP address is displayed on the login screen.





3.2 Mode of Operation

3.2.1 Select Mode of Operation

The opening screen of MagicFlex for the initial installation:



From the Mode Selection window, choose the mode that you will be working with. Please note that this selection must correspond to the order you made to MagicFlex when requesting your version:

- Interactive Set up MagicFlex Interactive Mode
- Data Center Report Set up MagicFlex Data Center Report Mode
- HPE Enclosure Report Set up MagicFlex Single Enclosure Report Mode

3.2.2 Login to MagicFlex

Login to the MagicFlex System





The default User and Password are "admin".

3.3 Configure Device IP Addresses for Interactive Mode

After you have logged into MagicFlex successfully, you will see the opening screen:





Click on the right-side menu option Admin to display the screen to add devices.

The screen will be displayed to add devices to MagicFlex.



	MagicFle ^X	Smart An	alysis							User: a	dmin
\odot		1 ONEVIEW			IFIGURATION	Sers USERS					
Dashboard	Device: Autodetect 0 devices selected.	▼ IP:	192.168.2.79 Use	r: admin	Password	•••••	Add Clear	Reload	Request Licenses	Update Licenses Rebuild	
Summary	No.Devices select	Actions	Туре		Name		IP/Hos	t	User		Lio
hl.											
Performance											
-8-											
Tools											
Мар											
2											
Admin											
About											
Ready	Last configuration hanve	est at: 01/09/2018 10:3	5 AM								

3.3.1 Add Virtual Connect, SAN/LAN, Onboard Administrator to MagicFlex

Leave the device setting as the default "Autodetect" when adding:

- Virtual Connect Domains
- Onboard Administrators
- SAN/LAN devices (if relevant)

Please note that if you are using OneView to manage your datacenter, you do not need to add the individual Virtual Connect and Onboard Administrator IP addresses. Instead, you should add OneView (see section 3.3.3), and MagicFlex will automatically detect the associated Virtual Connect and Onboard Administrator IP addresses.



For other devices, including HPE Virtual Connect Domains not managed by HPE OneView, HPE Onboard Administrators, LAN switches and SAN switches:

- 1. Configure the Device parameters.
 - a. In the **IP** text box, enter the device IP address.
 - b. In the **User** text box, enter the device username.
 - c. In the **Password** text box, enter the device password.
- 2. Click Add.

	Ма	agic	Fle <mark>X</mark>	Sma	rt Ar	nalysis											User: 6
Ø		Z DE	VICES		VIEW		ILING		FIGURATIC	DN A	USERS		श				
Dashboard	l It is	highly reco In Configur	ommended ation Harve	to run configu	uration ha	arvest after modifyin	g monitore	ed entities.									
Summary	τ	Device: A	utodetect		• IP:	192.168.2.79	User	admin	Pa	ssword: •	•••••	Add	Clear	Reload	Request Licenses	Update Licenses	Rebuild
1.1		devices s Devices	elected. select	Actions		Туре			Name				IP/Hos	t	User		
Performance	1 :e		×	Delete		HPE Onboard Adr	ninistrator		Enc01				192.16	58.2.79	admin		
Tools																	
\sim											You have 1	message					
Мар											192.168.2.7	79 (Enc01) has bee	n added s	uccessfully.	*		
Admin																	
About													✓				
													Close				

3.3.2 Add VMware vCenter to your MagicFlex Environment

Select the device setting VMware vCenter to add vCenters.

Enter each vCenter that will be part of the MagicFlex analysis:

- 1. Configure the vCenter parameters.
 - a. In the IP text box, enter the vCenter IP address.



- b. In the User text box, enter the vCenter username.
- c. In the **Password** text box, enter the vCenter password.
- 2. Click Add.



3.3.3 Add OneView to your MagicFlex Environment

If the Virtual Connect enclosures that will be analyzed are managed by HPE OneView, click on the upper menu option OneView to add OneView to MagicFlex:

- 1. Configure the OneView appliance parameters.
 - a. In the IP text box, enter the OneView appliance IP address.
 - b. In the **User** text box, enter the OneView appliance username.
 - c. In the **Password** text box, enter the OneView appliance password.
- 2. Click Add.



Please note that MagicFlex will get to the IP addresses of the Virtual Connects and Onboard Administrators from OneView. Thus, the IP addresses of the Virtual Connects and Onboard Administrators do not need to be added to MagicFlex manually when using OneView.



3.4 Configure Device IP Addresses for Data Center Mode

First, click on the left-menu option, Run Report.





Then, from the Report Configuration window:

- Add VMware vCenter to your MagicFlex environment
- Add OneView to your MagicFlex environment (if relevant)
- Add Additional Devices to your MagicFlex environment, including:
 - Virtual Connect Domains
 - Onboard Administrators
 - SAN/LAN devices (if relevant)
- Run a configuration harvest and generate report



		Report Config	guration				
Back to Main	VMware vCenter Add VMware vCenter servers here. All ESXi hosts manage	d by vCenter will be imported and analyzed	d.				
Ublities	Actions IP/Host		Name	Туре			
	HPE OneView Add HPE OneView appliances here. All Logical Interconnects managed by OneView will be imported and analyzed.						
	IP: User: I Actions IP/Host	Password: Add	Import CSV				
	Other Devices						
	Add the following devices here: HPE Virtual Connect, HPE switches.	c-Class Onboard Administrators, HPE H30	C switches, Cisco Catalyst and Nexus swit	tches, Brocade-based SAN			
	IP: User: IP/Host	*assword: Add	Import CSV Name	Туре			

3.4.1 Add VMware vCenter to your MagicFlex Environment

Enter each vCenter that will be part of the MagicFlex analysis:

- 1. Configure the vCenter parameters.
 - a. In the **IP** text box, enter the vCenter IP address.
 - b. In the **User** text box, enter the vCenter username.
 - c. In the **Password** text box, enter the vCenter password.
- 2. Click Add.

3.4.2 Add HPE OneView to your MagicFlex Environment

If the Virtual Connect enclosures that will be analyzed are managed by HPE OneView:

- 1. Configure the OneView appliance parameters.
 - a. In the **IP** text box, enter the OneView appliance IP address.
 - b. In the **User** text box, enter the OneView appliance username.
 - c. In the **Password** text box, enter the OneView appliance password.
- 2. Click Add.



3.4.3 Add Additional Devices (HPE Virtual Connect Domains, HPE Onboard Administrators, LAN/SAN switches) to your MagicFlex Environment

For other devices, including HPE Virtual Connect Domains not managed by HPE OneView, HPE Onboard Administrators, LAN switches and SAN switches:

- 1. Configure the Device parameters.
 - a. In the IP text box, enter the device IP address.
 - b. In the **User** text box, enter the device username.
 - c. In the **Password** text box, enter the device password.
- 2. Click Add.

Please note, if you are using OneView to manage your data center, you do NOT need to add Virtual Connect Domains or Onboard Administrators individually. MagicFlex will find them automatically from OneView.

3.4.4 Run a Harvest/Report

You can now create your report by clicking on the **Run Report** left-side menu option.

The Run Report will open up a window that goes through the process of harvesting the data, then creating and presenting the report.



This process consists of three steps performed automatically when you choose the Run Report option:

- 1. Running a Harvest, to gather the necessary information from the devices allocated to MagicFlex.
- 2. MagicFlex performs the analysis, using complex algorithms, best practices vendor advisories/recipes.



3. MagicFlex will present an abbreviated report, which you can review online, store as a file, and/or print.

3.5 Configure Device IP Addresses for Enclosure Mode

3.5.1 Add Enclosure to your MagicFlex Environment

Enter one of the devices (Virtual Connect, SAN Switch, LAN Switch, or Onboard Administrator) residing in the enclosure that will be part of the MagicFlex analysis:

- 1. Configure the device parameters.
 - a. In the **IP** text box, enter the device IP address.
 - b. In the **User** text box, enter the device username.
 - c. In the **Password** text box, enter the device password.
- 2. Click Add.

Ma		X				MagicFle	x Enclosures	Report	
Configure	🔳 Report	⊁ Utilities							
	Run Report		Enclosure						
			Add Enclosure. All devices con	nected will be analyzed	d after filling	thier configuration	data.		
			IP	USER	P/	ASSWORD	•	Add	Clear



From this device, MagicFlex will automatically be able to detect all other devices residing in the same physical enclosure.

3.5.2 Provide Access Details to Devices in Enclosure

A list of devices found in the enclosure will be displayed. For each device, add the username and password. When you are finished, click on the Connect button to connect.

Note: if all (or many) of the devices have the same username/password, you can use the arrows at the bottom to copy the definition for the first device to the additional devices. Afterwards, you can edit as necessary.

Ma		Nalysis					MagicFl	ex Enclosure	s Report	
Configure 🌣	🔳 Report	🗲 Utilities								
(Run Report		Add Enclosure. All dev 192.168.2.79	vices connected w	ill be analyzed	after filli	ng thier configuratior	n data.	Add	Clear
				IP/Host		Туре		Username		Password
				192.168.2.61	HP VC Flex-10 Er	net Module]	
				192.168.2.62	HP VC Flex-10 Er	net Module]	
				192.168.2.221	Cisco MDS 9124	e 24-port Га	abric Switch			
				192.168.2.222	Cisco MDS 9124	e 24-port Fa	abric Switch			
				192.168.2.223	Brocade 4/12 SA BladeSystem	N Switch fo	or HP c-Class			
								ŧ		ŧ
				Connect						

The status column will display the connection status as MagicFlex discovers the enclosure.



Ma		X Ilysis				Magio	cFlex Enclosure	es Report
Configure	🔳 Report	🗡 Utilities						
(Run Report		Add Enclosure. All de	vices connected w	ill be analyzed afte	er filling thier configur	ration data. ●	Add Clear
				IP/Host		Туре	Username	Password
				192.168.2.61	HP VC Flex-10 Enet M	/odule	admin]
				192.168.2.62	HP VC Flex-10 Enet M	1odule	admin]
				192.168.2.221	Cisco MDS 9124e 24-	port Fabric Switch	admin]
				192.168.2.222	Cisco MDS 9124e 24-	port Fabric Switch	admin]
				192.168.2.223	Brocade 4/12 SAN Sv BladeSystem	vitch for HP c-Class	admin	
							ŧ	ŧ
				Connect	I			

When the discovery process is complete, click on the Run Report button to create the report.

3.5.3 Run Enclosure Report

A screen will be displayed that automatically provides updates of the status of the report creation process.



Ma		atysis		MagicFlex Enclosures Report
Configure	Report	≁ Utilities		
			RUNNING	1. A
Update metadata			COMPLETED	\checkmark
	Analyze c	onfiguration	COMPLETED	\checkmark
	Gather po	rt statistics baseline	COMPLETED	\checkmark
	Analyze d	levice status	RUNNING	¢
	Analyze N	IAC routing	PENDING	Ð
	Analyze d	ifferential port statistics	PENDING	®
	Generate	report data	PENDING	Ð

When all steps are complete, the report will be displayed.



	MagicFlex Enclosures R	еро
Configure Report 🗡 Utilities	Concella	
	DATA CENTER HEALTH CHECK AUDIT REPORT	