1. Installing Cloudmon ITIM on Windows desktop / Server

Cloudmon ITIM can be installed as a Hyper-V virtual machine on any Windows Pro / Enterprise (version above 10) and Windows Server editions. Follow the below steps to install:

- 1. Enable Hyper-V role
- 2. Create Virtual Switch
- 3. Create Cloudmon ITIM as Virtual Machine

1.1. Enabling Hyper-V role

1.1.1. Step 1: Prerequisites

The following prerequisites are required to successfully run Client Hyper-V on Windows 10:

- Windows 10 Pro or Enterprise 64 bit Operating System
- 64 bit processor with Second Level Address Translation (SLAT)
- 4GB system RAM at minimum
- BIOS-level Hardware Virtualization support
- Administrative privilege

1.1.2. Step 2: Setting Up Hyper-V

- 1. Ensure that hardware virtualization support is turned on in the BIOS settings
- 2. Click the search icon (magnified glass) on the taskbar
- 3. Type turn windows features on or off and select that



4. Select and enable Hyper-V

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5. If Hyper-V was not previously enabled, reboot the machine to apply the change.

		×
÷	🧱 Windows Features	
	Windows completed the requested changes.	
	Windows needs to reboot your PC to finish installing the requested changes.	
	Restart now Don't restar	:

1.2. Creating Virtual Switch using Hyper-V Manager

As a best practice, configure networking for the Hyper-V environment to support external network connections. Also ensure that a virtual switch has been created and is functional.

1. Click the search icon (magnified glass) on the taskbar, type **Hyper-V Manager** and select the item **NOTE:** Right click Hyper-V Manager to pin it to the task bar

-	All Apps Documents Web	More 🔫	X
	Best match		
	Hyper-V Manager App		
	Apps		Huper-V Manager
100	1 Hyper-V Quick Create		App
	Settings		
A Maria	Turn Windows features on or off		□ ^C Open
WOUD	Search the web		🗟 Run as administrator
	A hyper - See web results		Den file location
and the second	℅ hyper-v manager		-t= Pin to Start
			-🛱 Pin to taskbar
	𝒫 hypertension		
Compar	𝒫 hypervisor		
	℅ hypertension symptoms		
Syman Endpoin			
diff			
-			o 🗄 💽 👼 🛅 🛄 🖻 🌍

2. Open the Virtual Switch Manager, found on the Actions panel in the Hyper-V Manager

Hyper-V Manager				_	×
File Action View Help					
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Hyper-V Manager	Virtual Machiner		Actions		_
DL:015	News	Shaha COULUMAAN Annia	DLI015		
	Name	state CPU bage Assig	💻 Quick Create		
		No virtual machines were found on this ser	New		
			强 Import Virtual Machine		
			Hyper-V Settings		
	<		🟭 Virtual Switch Manager		
	Checkpoints		🔬 Virtual SAN Manager		
	No virtual machine selected.	No virtual machine selected.	🚄 Edit Disk		
			Inspect Disk		
1			Stop Service		
			× Remove Server		
			Refresh		
	Details		View		- 1
		No tem selected.	👔 Help		
	<	>			

3. Ensure that **External** is highlighted, and then click on the **Create Virtual Switch** button

Create virtual switch
What type of virtual switch do you want to create? External
Internal Private
Create Virtual Switz

4. If more than one NIC in is present, ensure that the proper NIC is selected for use on the VM external network connections

🚰 Virtual Switch Manager for DLI015	- 🗆 X
Yirtual Switches New virtual network switch Default Switch Default Network Zi Network Realtek PCIe dbE Family Controller Realtek PCIe dbE Family Controller New Virtual Switch Nipcap Loopback Adapter	Virtual Switch Properties Name: New Virtual Switch Notes:
Global Network Settings MAC Address Range 00-15-5D-0C-53-00 to 00-15-5D-0	Connection type What do you want to connect this virtual switch to? Connection type External network: Npcap Loopback Adapter Npcap Loopback Adapter Realete RCle GEF Ennity Controler
	VLAN ID Intervent Network VLAN ID Intervent Sector Sec
	Cancel Apply

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5. Click the **Yes** button to apply networking changes

1.3. Create Hyper-V Virtual Machine under Hyper-V Manager

1. Select the Actions menu, click New and then click Virtual Machine.



2. New Virtual Machine Wizard click next.



3. Type a Virtual Machine name. In the VM location, you can either leave the default one. If you want to use a different location then click the Browse button to select and then click next.

Refore You Regin	Choose a name and location for this virtual machine	
pectry Name and Location pecify Generation ssign Memory configure Networking connect Virtual Hard Disk	The name is displayed in Hyper-V Manager. We recommend that you use a name that helps identify this virtual machine, such as the name of the guest operating system or workload. Name: You can create a folder or use an existing folder to store the virtual machine. If you don't see folder, the virtual machine is stored in the default folder configured for this server.	you easily lect a
Installation Options	Store the virtual machine in a different location Location: E:\Virtual Machine\ B	rowse
	In you plan to take checkpoints of this virtual machine, select a location that has enough	

4. In the Generation section, you can select the generation of the VM and then click

Vefore You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	 Choose the generation of this virtual machine. Generation 1 This virtual machine generation supports 32-bit and 64-bit guest operating systems and provides virtual hardware which has been available in all previous versions of Hyper-V. Generation 2 This virtual machine generation provides support for newer virtualization features, has UEFI-based firmware, and requires a supported 64-bit guest operating system. Once a virtual machine has been created, you cannot change its generation.
	More about virtual machine generation support

5. Create a Hyper-V Machine, specify the amount of memory that assigned to the VM, and then click Next.

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fore You Begin becify Name and Location	Specify the amount of memory to allocate to this virtual machine. You can specify an amount from 32 MB through 12582912 MB. To improve performance, specify more than the minimum amount recommended for the operating system.
ecify Generation ssign Memory	Startup memory: 2048 MB
onfigure Networking	Use Dynamic Memory for this virtual machine. When you decide how much memory to assign to a virtual machine, consider how you intend to
Installation Options	use the virtual machine and the operating system that it will run.
mmary	

6. Select a virtual network that will be used for connecting the VM to the network. Select a virtual switch that we created earlier.

💹 New Virtual Machine Wiza	rd ×
Configure N	etworking
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Each new virtual machine includes a network adapter. You can configure the network adapter to use a virtual switch, or it can remain disconnected. Connection: New Virtual Switch Not Connected Network Switch
	<previous next=""> Finish Cancel</previous>

7. Before configuring the virtual hard disk requirements, download Cloudmon ITIM virtual hard disk from here. Select "Use an-existing virtual hard disk" option and browse the downloaded Cloudmon ITIM VHDX file under Location.

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Jefore You Begin	A virtual machine requires storage so that you can install an operating system. Yo	ou can specify the		
Specify Name and Location Storage now or configure it later by moonrying the virtual machine's properties. Specify Generation O Create a virtual hard disk. Use this option to create a VHDX dynamically expanding virtual hard disk.				
Connect Virtual Hard Disk	Location: C:\Users\Public\Documents\Hyper-V\Virtual Hard Disks\	Browce		
Summary	Size 127 GB (Maximum: 64 TB)	Lionsen		
	Output Use an existing virtual hard disk			
	Use this option to attach an existing virtual hard disk, either VHD or VHDX for	mat.		
	Location: ::\Users\admin\Downloads\images\itim v1.10.vhdx	Browse		
	Attach a virtual hard disk later	the state		

- 8. Create Hyper-V Virtual Machine, review the Summary, and then click the Finish button to create the VM.
- 9. Once the VM is successfully created, right click on the virtual machine and then click Connect

Hyper-V Manager						
File Action View Help						
🗢 🔿 🙍 🖬 🚺						
Hyper-V Manager	Virtual Machines					
	Name	State	CPU Usage	Assigned Memory	Uptime	Status
	TIM V1.10	Off				
		Connect				
		Settings				
		Start				
	< Checkpoints	Checkpoint				
		Move	-			
		Euport	e selected virtual r	nachine has no checkpoir	nts.	
		Export				
		Rename				
		Delete				
		Help				

10. Click the start button



11. On successful start of the Cloudmon ITIM virtual machine, you can see the Cloudmon ITIM console. The console will display the IP address assigned and how to access Cloudmon ITIM portal.



 For assigning IP address or route manually, login into the VM using the following credentials, Username: cloudmon Password: iamitimuser

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13. Enter "itim" to view all the commands supported.

localhost login: clou	udmon		
Passuord:			
cloudmon-itim contro	ller> itim		
Usage: itim <command:< td=""><td>> [OPTIONS]</td></command:<>	> [OPTIONS]		
CUMMANDS			
help	Print this help and exit		
version	Print itim version and exit		
start	Start cloudmon service		
stop	Stop cloudmon service		
restart	Restart cloudmon service		
set	Configure itim		
show	Show information		
ping	send ICMP ECHO_REQUEST to network hosts		
SET OPTIONS:			
ip <ip></ip>	Configure ip address for eth0		
prefix <prefix></prefix>	Configure ip address prefix address for eth0 [default: 24]		
gw <ip></ip>	Configure default gateway for eth0 [default: first ip]		
route <net> <gw></gw></net>	Configure gateway for the given network		
dns <ip></ip>	Configure DNS servers delimited by comma (,)		
ntp <0¦1¦sync>	Configure NTP		
date <datetime></datetime>	Configure Date & Time		
timezone <tz></tz>	Configure Timezone		
SHOW OPTIONS:			
interfaces	Show interface configuration for eth0		
routes	Show routing table		
dns	Show DNS server		
date	Show Date & Time		
timezones	Show available time zone list		
EXAMPLES :			
itim set ip dhcp			
itim set ip 192.	168.75.201		
itim set ip 192.	168.75.201 gw 192.168.75.1 prefix 24		
itim set route 19	92.168.20.0/24 192.168.75.254		
itim set dns 8.8	.8.8,4.4.4		
itim set date 20	19-01-26 05:30:00		
itim set timezone	e America/New_York		
itim set ntp true	8		
itim show interfa	aces		
itim show date			
cloudmon-itim controller>			

Command to assign IP Address: itim set ip 192.168.12.61

14. Enter "itim show interfaces" to view the assigned IP Address.

cloudmon-itim	controller>	itim	show	interfaces	
lo	UNKNOWN		127	.0.0.1/8 ::1/	128
eth0	UP		192	.168.12.61/24	fe80::215:5dff:fe0c:8d10/64
cloudmon-itim	controller>				
cloudmon-itim	controller>		102	100112101/21	

15. Using Chrome or Firefox or Microsoft Edge browser open Cloudmon ITIM portal using -

https://<VM IP address> or http://<VM IP address>

16. Upon first time access, you will directed to registration page. Fill in your details, the administrative login and password details will be sent to the given email address.

Note: Ensure internet access is available during this process. We encourage to have internet connectivity all the time to get periodic product updates.

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