

## 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

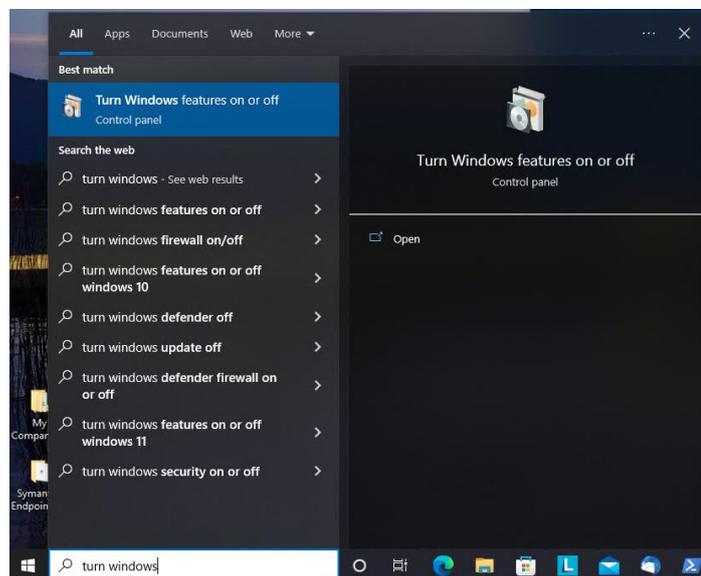
#### 1.1.1. Step 1: Prerequisites

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

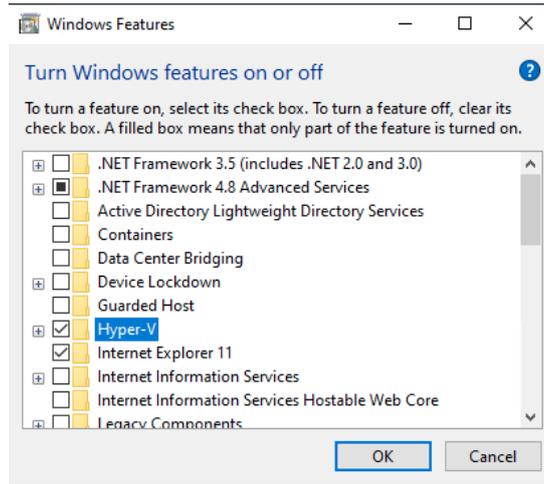
1. Ensure that hardware virtualization support is turned on in the BIOS settings
2. Click the search icon (magnified glass) on the taskbar
3. Type turn windows features on or off and select that



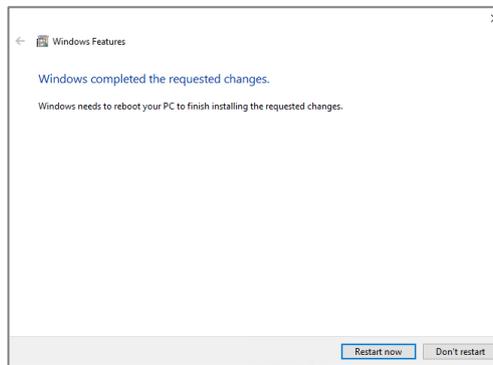
4. Select and enable **Hyper-V**

# Cloudmon ITIM Installation Guide for Windows

- Using Hyper-V Virtual Machine



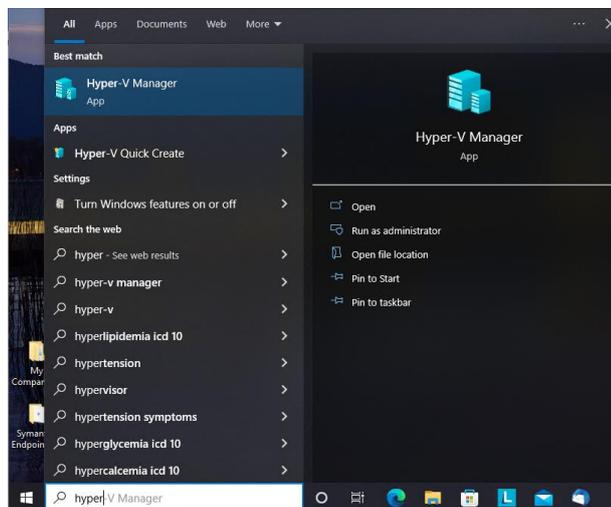
5. If Hyper-V was not previously enabled, reboot the machine to apply the change.



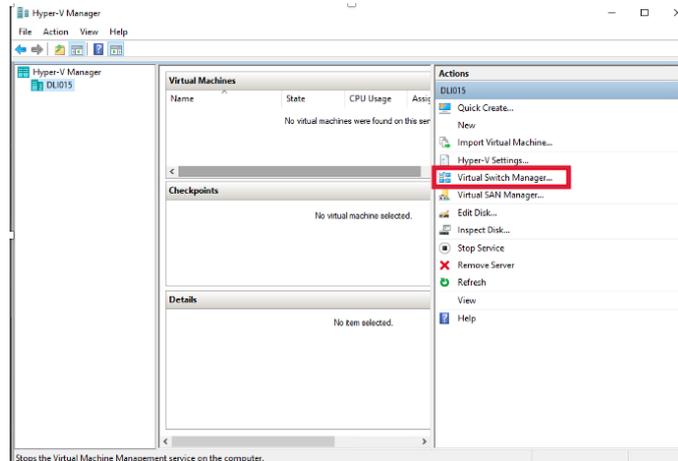
## 1.2. Creating Virtual Switch using Hyper-V Manager

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.

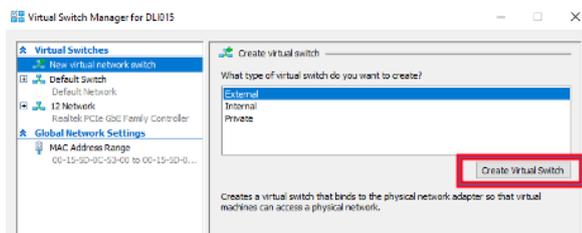
1. Click the search icon (magnified glass) on the taskbar, type **Hyper-V Manager** and select the item **NOTE:** Right click Hyper-V Manager to pin it to the task bar



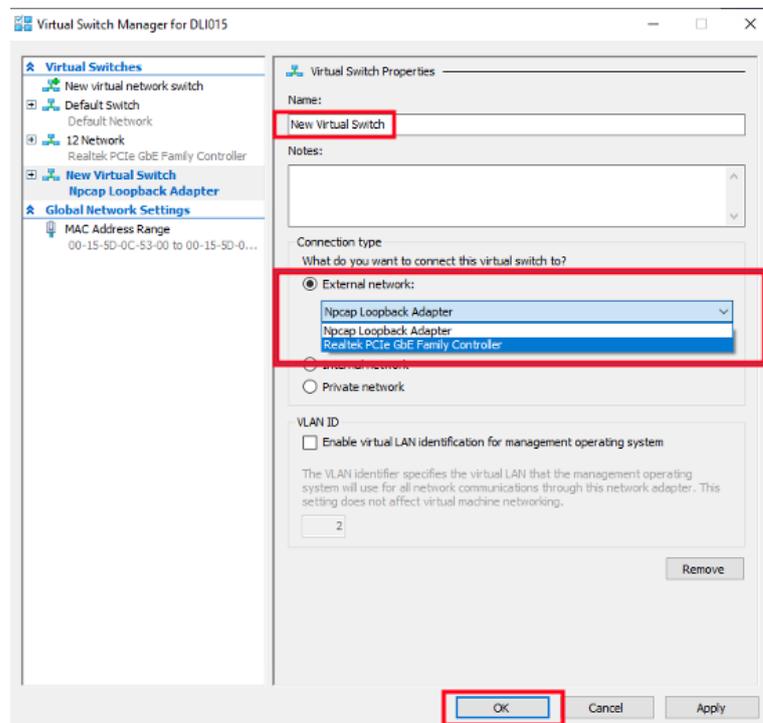
2. Open the Virtual Switch Manager, found on the Actions panel in the Hyper-V Manager

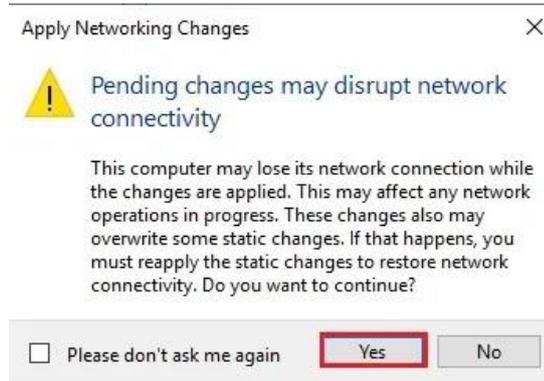


3. Ensure that **External** is highlighted, and then click on the **Create Virtual Switch** button



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

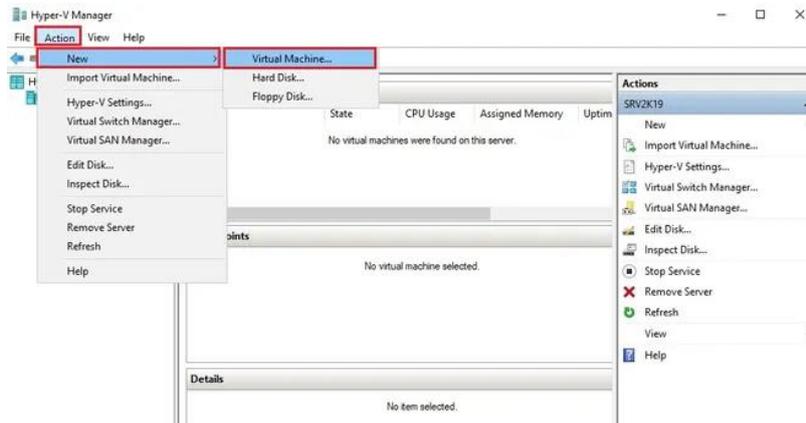




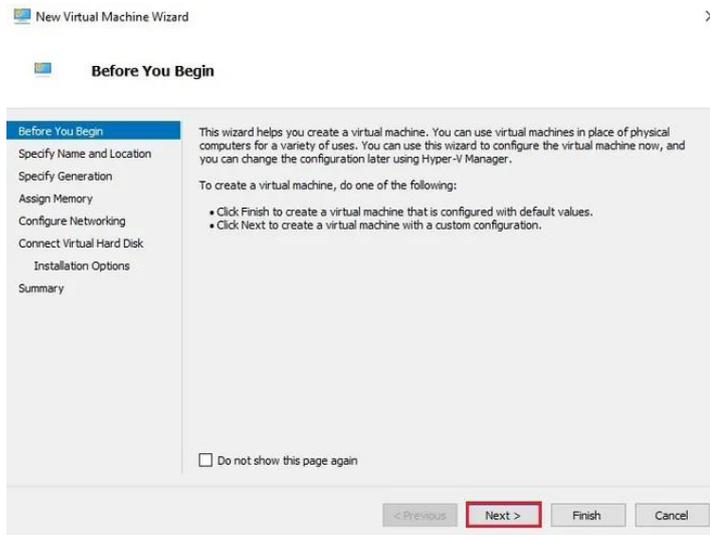
5. Click the **Yes** button to apply networking changes

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

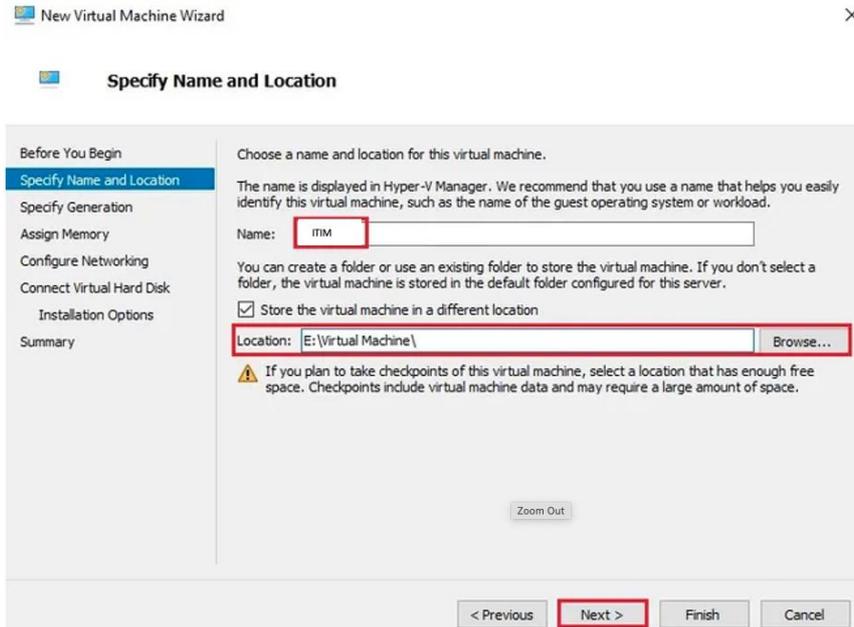
1. Select the Actions menu, click New and then click Virtual Machine.



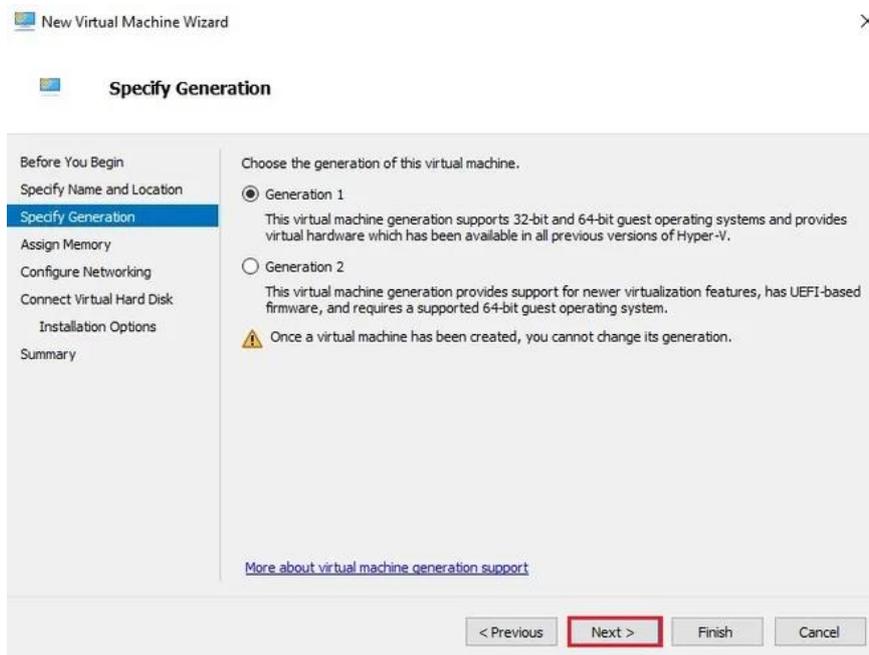
2. New Virtual Machine Wizard click next.



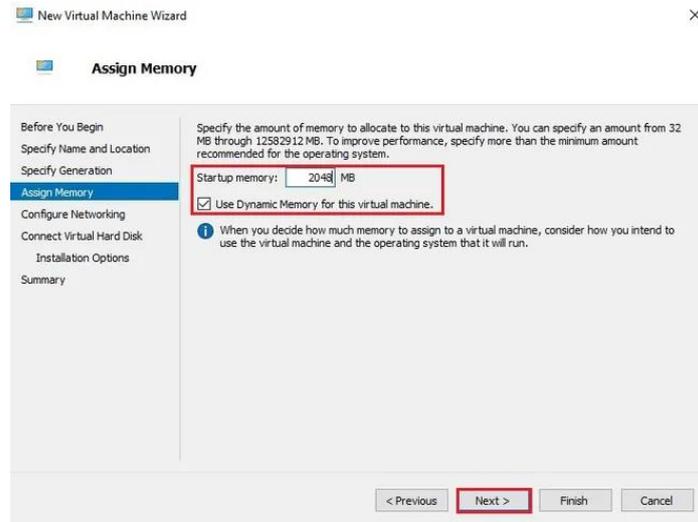
3. Type a Virtual Machine name. In the VM location, you can either leave the default one. If you want to use a different location then click the Browse button to select and then click next.



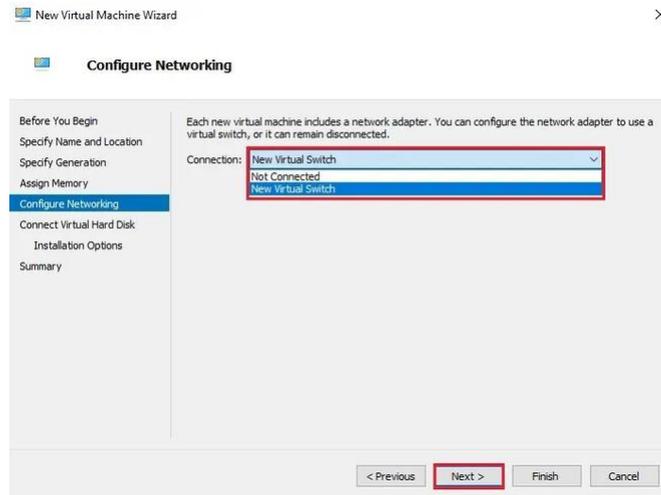
4. In the Generation section, you can select the generation of the VM and then click



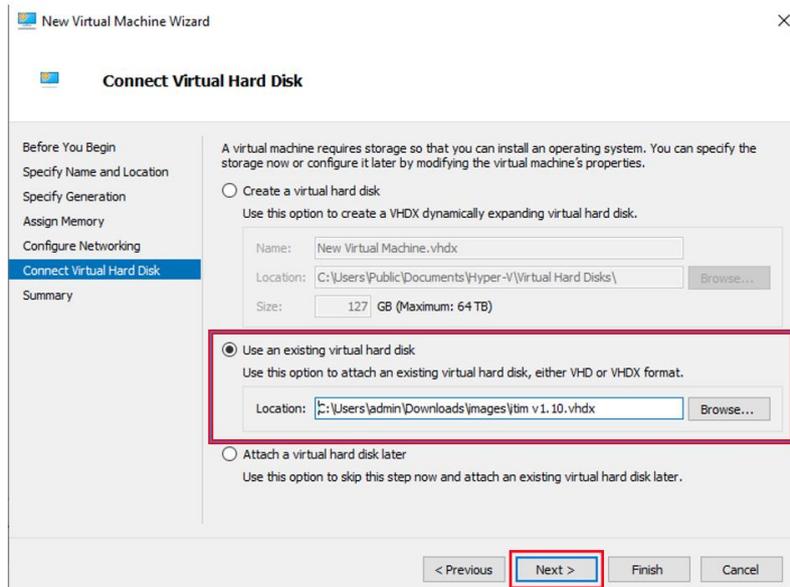
5. Create a Hyper-V Machine, specify the amount of memory that assigned to the VM, and then click Next.



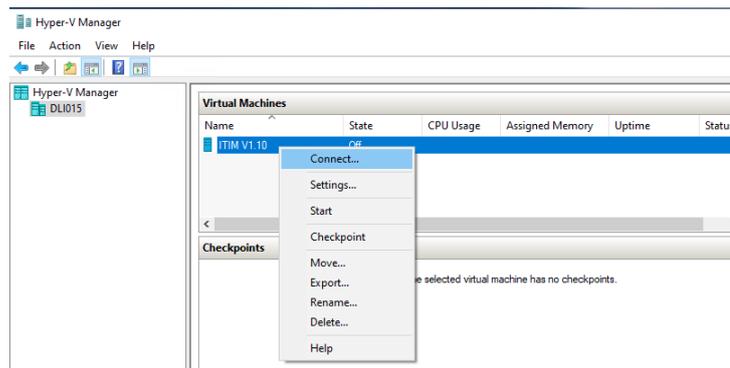
6. Select a virtual network that will be used for connecting the VM to the network. Select a virtual switch that we created earlier.



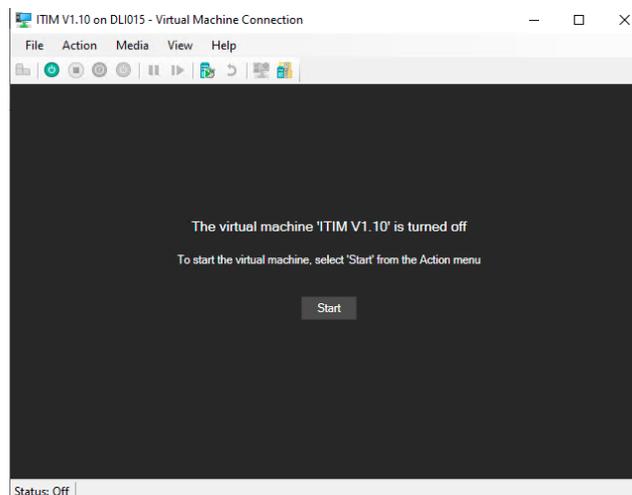
7. Before configuring the virtual hard disk requirements, **download Cloudmon ITIM virtual hard disk** from [here](#). Select **“Use an-existing virtual hard disk”** option and browse the downloaded Cloudmon ITIM VHDX file under **Location**.



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**



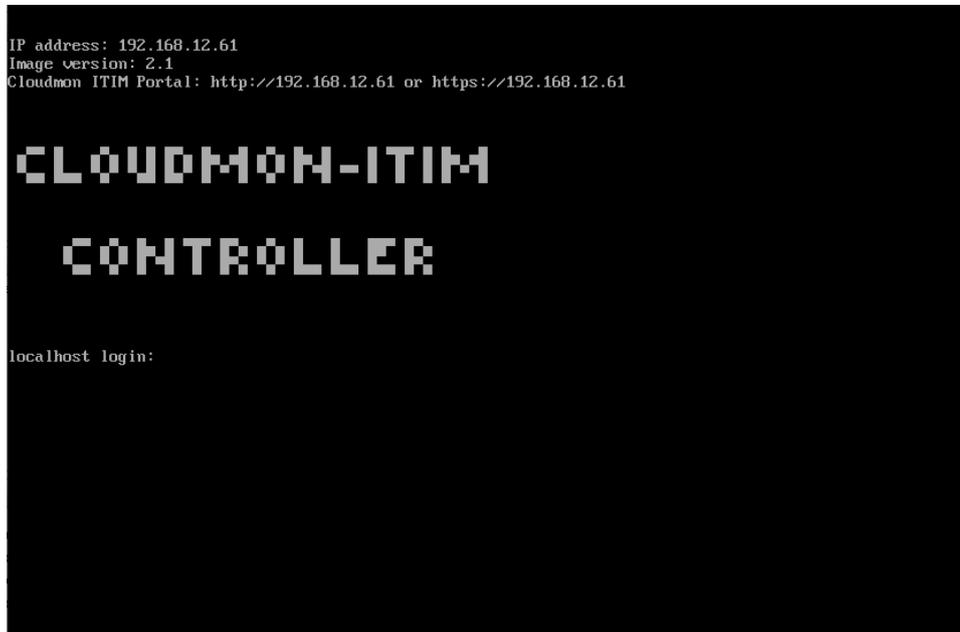
10. Click the **start** button



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.

**Note:**

- By default, the ITIM uses **DHCP to get IP address** automatically (there could be a delay, press enter if you don't see an IP address)



```
IP address: 192.168.12.61
Image version: 2.1
Cloudmon ITIM Portal: http://192.168.12.61 or https://192.168.12.61

CLOUDMON-ITIM
CONTROLLER

localhost login:
```

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

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

```
localhost login: cloudmon
Password:
cloudmon-itim controller> itim
Usage: itim <COMMAND> [OPTIONS]
COMMANDS:
  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>       Configure ip address for eth0
  prefix <prefix> Configure ip address prefix address for eth0 [default: 24]
  gw <ip>       Configure default gateway for eth0 [default: first ip]
  route <net> <gw> Configure gateway for the given network
  dns <ip>      Configure DNS servers delimited by comma (,)
  ntp <0|1|sync> Configure NTP
  date <datetime> Configure Date & Time
  timezone <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 192.168.20.0/24 192.168.75.254
itim set dns 8.8.8.8,4.4.4.4
itim set date 2019-01-26 05:30:00
itim set timezone America/New_York
itim set ntp true
itim show interfaces
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> █
```

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

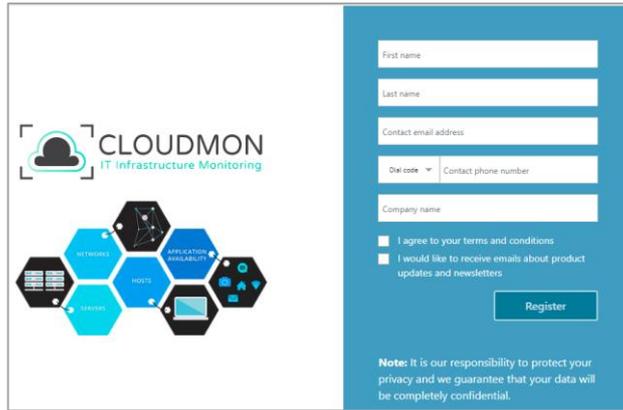
<https://<VM IP address>> or <http://<VM IP address>>

16. Upon first time access, you will be 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 you to have internet connectivity all the time to get periodic product updates.

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- Using Hyper-V Virtual Machine



The image shows a registration form for Cloudmon IT Infrastructure Monitoring. On the left, there is a logo for Cloudmon IT Infrastructure Monitoring and a diagram of a hexagonal network structure with labels: NETWORKS, APPLICATION AVAILABILITY, HOSTS, and SERVICES. On the right, there is a registration form with the following fields: First name, Last name, Contact email address, Dbl code (dropdown), Contact phone number, and Company name. Below the form are two checkboxes: "I agree to your terms and conditions" and "I would like to receive emails about product updates and newsletters". A "Register" button is located at the bottom right of the form. A note at the bottom of the form states: "Note: It is our responsibility to protect your privacy and we guarantee that your data will be completely confidential."