

Cloudmon ITIM Installation Guide

Description

Cloudmon Itim Installation Guide

Table Of Contents

- [**Overview**](#)
- [**System Requirements**](#)
- [**Cloudmon ITIM on Windows / Hyper-V**](#)
 - [Installation Process on Windows / Hyper-V](#)
 - [Prerequisites](#)
 - [Procedure](#)
- [**Cloudmon ITIM on VMware**](#)
 - [Login into VMware ESXi host](#)
 - [Create Cloudmon ITIM as VMware Virtual Machine](#)
- [**Cloudmon ITIM on CentOS Server**](#)
- [**Configuring IP Address**](#)

Overview

With More Organizations Opting To Moving Their Applications To Cloud-Based Environments, There Is A Fast-Growing Uptake In Use Of Datacentre And Cloud Infrastructure. In The Process, It Administrators Face Many Challenges When Monitoring The Performance, Security, And Availability Of Such Infrastructure. Enterprises Face Challenges In Managing Multiple Toolsets And Getting The Right Expertise To Manage Diverse And Dynamic Requirements.

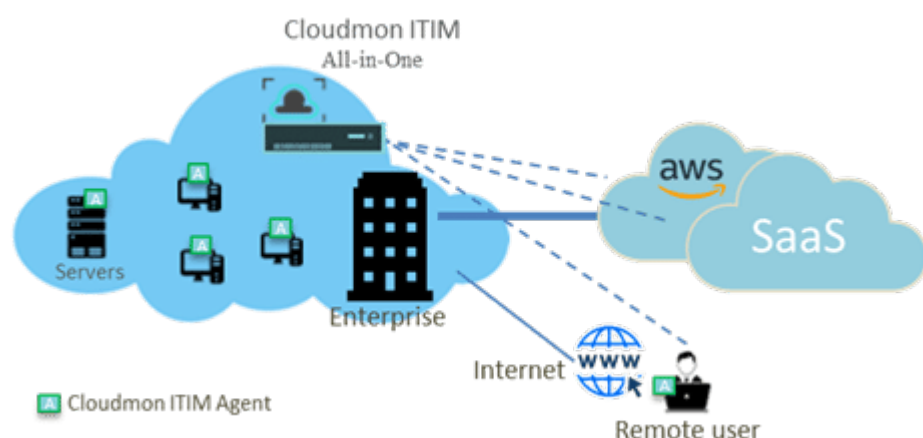
Datacentre And Cloud Providers Are Challenged In Ensuring That Slas Are Within Agreed Levels And That

Mtr Is Low With Efficiency Of It Operations Being High.

Cloudmon Itim Is A Unified Proactive Infrastructure Monitoring And Diagnostic Solution For Enterprises, Datacentre And Cloud Providers That Presents The Live Status Of All Infrastructure Entities And Provides Comprehensive Diagnostics Information For Troubleshooting.

Veryx Cloudmon Itim Consists Of:

1. A central **Controller** – UI portal and the master, that needs to be installed in a server (physical/virtual).
2. **Agents** – KPI monitor, which are installed in devices to be monitored (servers, VM, docker host, desktops & laptops).
3. **Probes** – SNMP Poller & IP endpoint synthetic monitor, which are normally co-located with the Controller, but may be also located in other places within the organization wide network in case of larger.



Operating System & Hypervisor

Support:

Controller	OS supported: Linux CentOS 7.9, Windows (using Hyper-V) Hypervisors supported: VMWare, QEMU / KVM, Hyper-V Public Cloud supported: AWS, Azure, GCP
Probe	OS supported: Linux CentOS 7.9, Windows (using Hyper-V) Hypervisors supported: VMWare, QEMU / KVM, Hyper-V Public Cloud supported: AWS, Azure, GCP

Agents

Linux: CentOS 7+, Ubuntu 14+, RedHat 6+, Debian 8+, Amazon Linux 2
Windows: Version 10+, Server 2012+



Note:

- Veryx Cloudmon ITIM controller and probes.
- Veryx Cloudmon ITIM Basic - our lifetime free edition currently supports 25 nodes (i.e., addressable IP interfaces).
- Veryx Cloudmon ITIM Standard and Pro editions are paid versions that provide higher feature sets and higher number of nodes. For a comparison of the feature sets refer [here](#).
- If you wish to explore these paid versions, please [contact](#) our sales team.

System Requirements

The Following Information Outlines The Critical System Requirements For The Self-Hosted Option, Enabling Users To Install And Oversee Cloudmon On Their Infrastructure. These System Requirements Have Been Determined With Various Deployment Scenarios In Mind, Aiming To Help Organizations Choose The Most Appropriate Configuration For Their Monitoring Environment.

	Basic - Free (up to 25 nodes)	Small (up to 250 nodes)	Medium (up to 1000 nodes)	Large (up to 5000 nodes)
--	----------------------------------	----------------------------	------------------------------	-----------------------------

Cloudmon Server	Cpu: 2 Cores Ram: 4 Gb (8 Gb Recommended) Storage: Ssd With At Least 16 Gb Capacity	Cpu: 4 Cores Ram: 8 Gb Storage: At Least 16 Gb Capacity	Cpu: 4 Cores Ram: 8 Gb Storage: At Least 16 Gb Capacity	Cpu: 8 Cores Ram: 8 Gb Storage: At Least 16 Gb Capacity
	Network Requirements: Outbound - 22, 25, 465, 587, 27017. Inbound: 80, 443. Internet Access: https://Repo.veryxtech.com , https://Pro.ip-api.com Os: Centos Linux 7.9			
Cloudmon Database (Mongodb 4.4+)	Not Applicable	Cpu: 2 Cores Ram: 8 Gb Storage: Ssd With At Least 64 Gb Capacity	Cpu: 4 Cores Ram: 16 Gb Storage: Ssd With At Least 128 Gb Capacity	Cpu: 8 Cores Ram: 32 Gb Storage: Ssd With At Least 512 Gb Capacity
	Network Requirements: Inbound: Tcp/27017 Os: Windows Or Linux			
Additional Probes	Not Applicable	Cpu: 2 Cores, Ram: 4 Gb, Storage: At Least 8 Gb Capacity		
		Network Requirements: Outbound - 80, 443 And Monitored Ports, Inbound: TCp/30000 . Internet Access: https://Repo.veryxtech.com , https://Pro.ip-api.com Os: Centos Linux 7.9		
Agents	Cpu: 64-Bit Processor Ram: 128 Mb Of Free Memory Storage: Sufficient Disk Space For Agent Installation And Temporary Data Storage, Less Than 200 Mb Os: Windows 10+, Windows Server 2012+, Ubuntu, Fedora, Centos, Redhat Linux, Suse Linux And More			
Note: Cloudmon Database Can Be Installed Along With The Server With Same Database System Configuration. For Deployments Larger Than 5000 Nodes And High Availability Contact Sales@Veryxtech.com				

Cloudmon Itim On Windows / Hyper-V

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 Steps Below To Install:

1. Download Cloudmon ITIM VHDX image.

2. Use the one-line automated script (mentioned in the section 3.1.2) to install Cloudmon on any Windows Pro / Enterprise version above 10 and Windows Server editions.

Installation Process On Windows / Hyper-V

Prerequisites

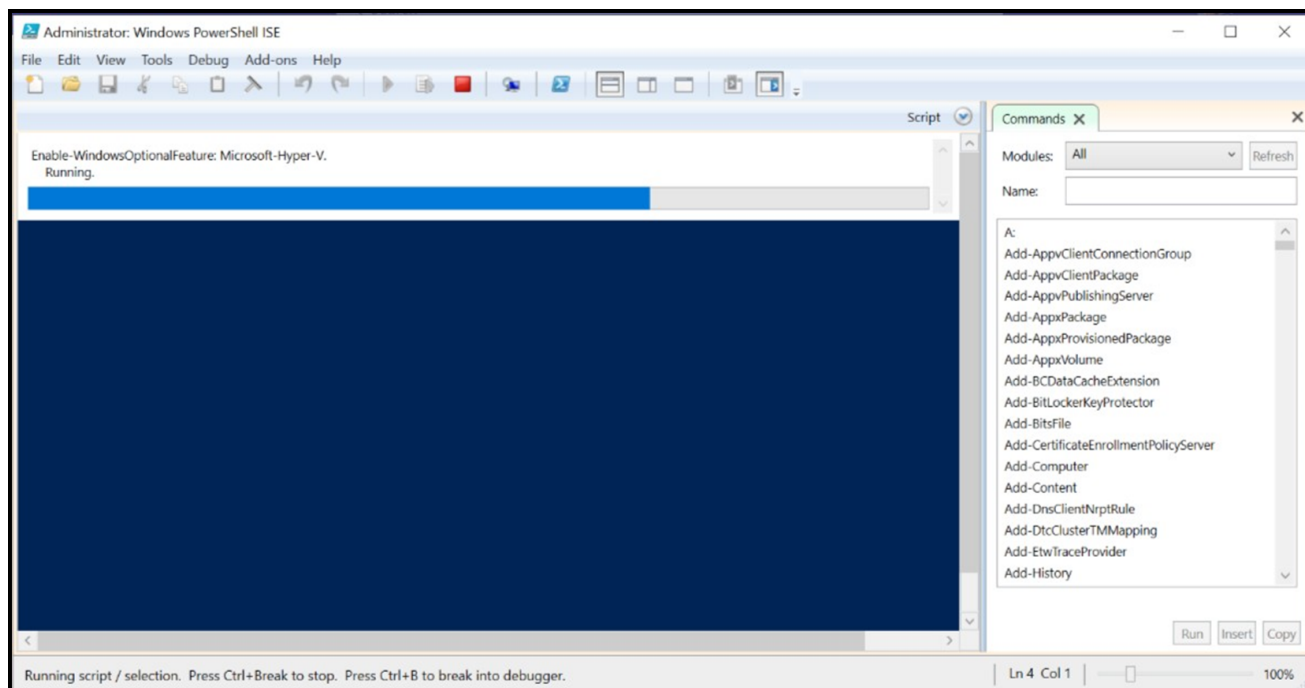
The Following Prerequisites Are Needed To Successfully Run Client Hyper-V On Windows 10+:

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

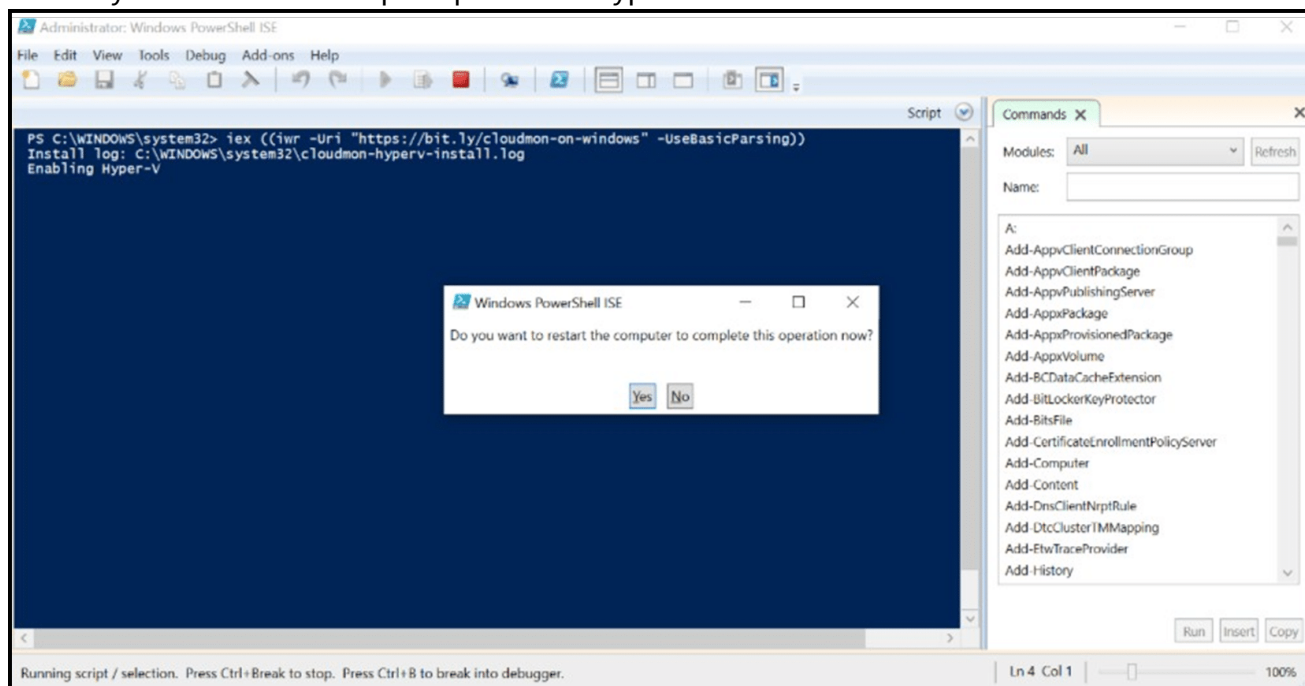
Procedure

1. Launch Windows PowerShell ISE as an administrator.
2. Execute the command to enable Hyper-V and press Enter.

```
lex ((Iwr -Uri "Https://Bit.ly/Cloudmon-On-Windows" -Usebasicparsing))
```



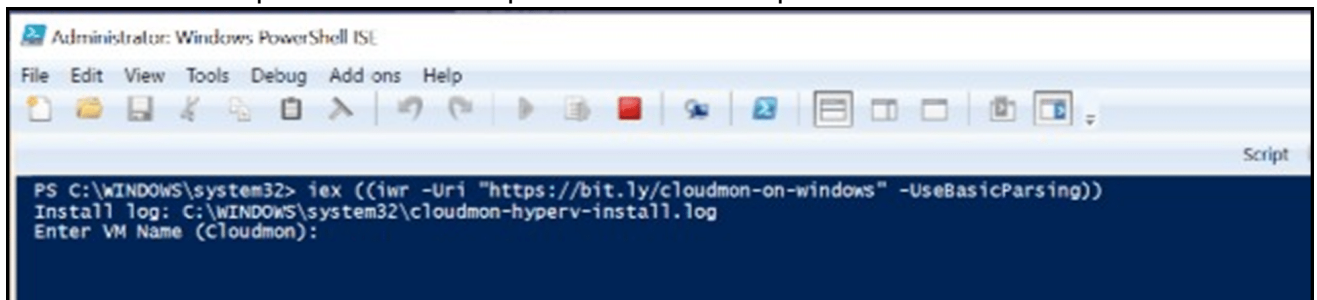
- Restart your machine when prompted after Hyper-V is enabled.



- Reopen Windows PowerShell ISE as an administrator after the machine has restarted.
- Execute the below command again to create a virtual machine.

`iex ((iwr -Uri "https://bit.ly/cloudmon-on-windows" -UseBasicParsing))`

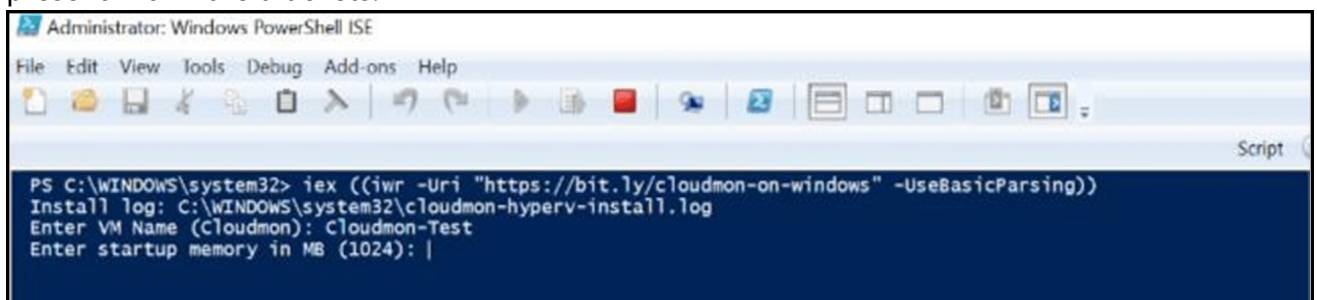
6. Provide a name or press enter to accept the default name present within the brackets.



```
Administrator: Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
Script

PS C:\WINDOWS\system32> iex ((iwr -Uri "https://bit.ly/cloudmon-on-windows" -UseBasicParsing))
Install log: C:\WINDOWS\system32\cloudmon-hyperv-install.log
Enter VM Name (Cloudmon):
```

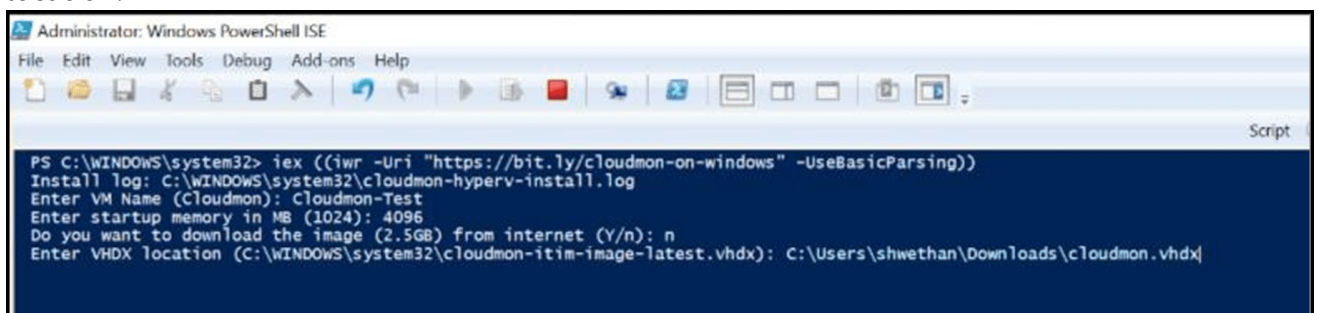
7. Provide your preferred Startup Memory (MB) size or press Enter to accept the default value present within the brackets.



```
Administrator: Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
Script

PS C:\WINDOWS\system32> iex ((iwr -Uri "https://bit.ly/cloudmon-on-windows" -UseBasicParsing))
Install log: C:\WINDOWS\system32\cloudmon-hyperv-install.log
Enter VM Name (Cloudmon): Cloudmon-Test
Enter startup memory in MB (1024): |
```

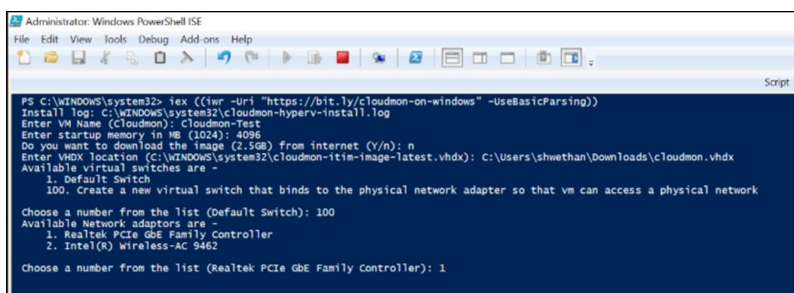
8. Download the VHDX image either directly from the internet or beforehand and provide the exact location.



```
Administrator: Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
Script

PS C:\WINDOWS\system32> iex ((iwr -Uri "https://bit.ly/cloudmon-on-windows" -UseBasicParsing))
Install log: C:\WINDOWS\system32\cloudmon-hyperv-install.log
Enter VM Name (Cloudmon): Cloudmon-Test
Enter startup memory in MB (1024): 4096
Do you want to download the image (2.5GB) from internet (Y/n): n
Enter VHDX location (C:\WINDOWS\system32\cloudmon-itim-image-latest.vhdx): C:\Users\shwethan\Downloads\cloudmon.vhdx
```

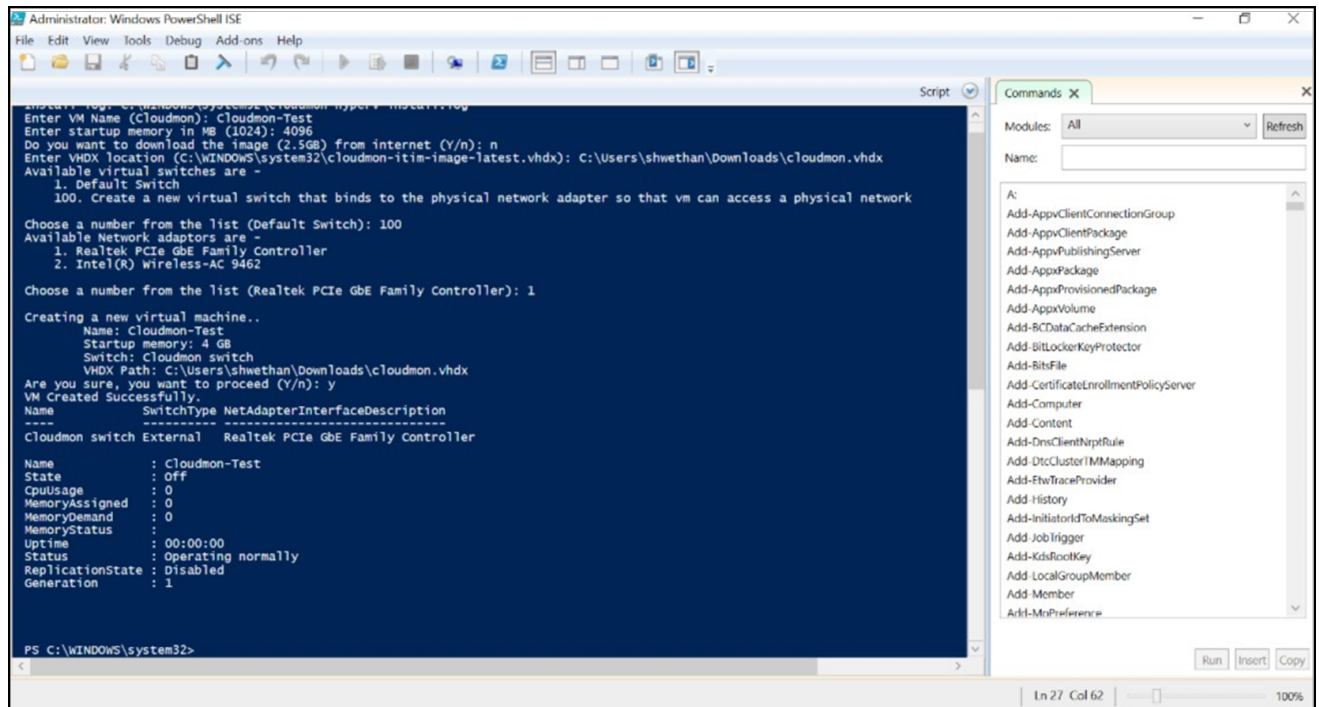
9. Create a switch by either selecting an existing one or creating a new one.



```
Administrator: Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
Script

PS C:\WINDOWS\system32> iex ((iwr -Uri "https://bit.ly/cloudmon-on-windows" -UseBasicParsing))
Install log: C:\WINDOWS\system32\cloudmon-hyperv-install.log
Enter VM Name (Cloudmon): Cloudmon-Test
Enter startup memory in MB (1024): 4096
Do you want to download the image (2.5GB) from internet (Y/n): n
Enter VHDX location (C:\WINDOWS\system32\cloudmon-itim-image-latest.vhdx): C:\Users\shwethan\Downloads\cloudmon.vhdx
Available virtual switches are -
1. Default Switch
100. Create a new virtual switch that binds to the physical network adapter so that vm can access a physical network
Choose a number from the list (Default Switch): 100
Available Network adaptors are -
1. Realtek PCIe GbE Family Controller
2. Intel(R) Wireless-AC 9462
Choose a number from the list (Realtek PCIe GbE Family Controller): 1
```


10. Upon confirmation, the virtual machine will be created and launched successfully, displaying the Cloudmon console.

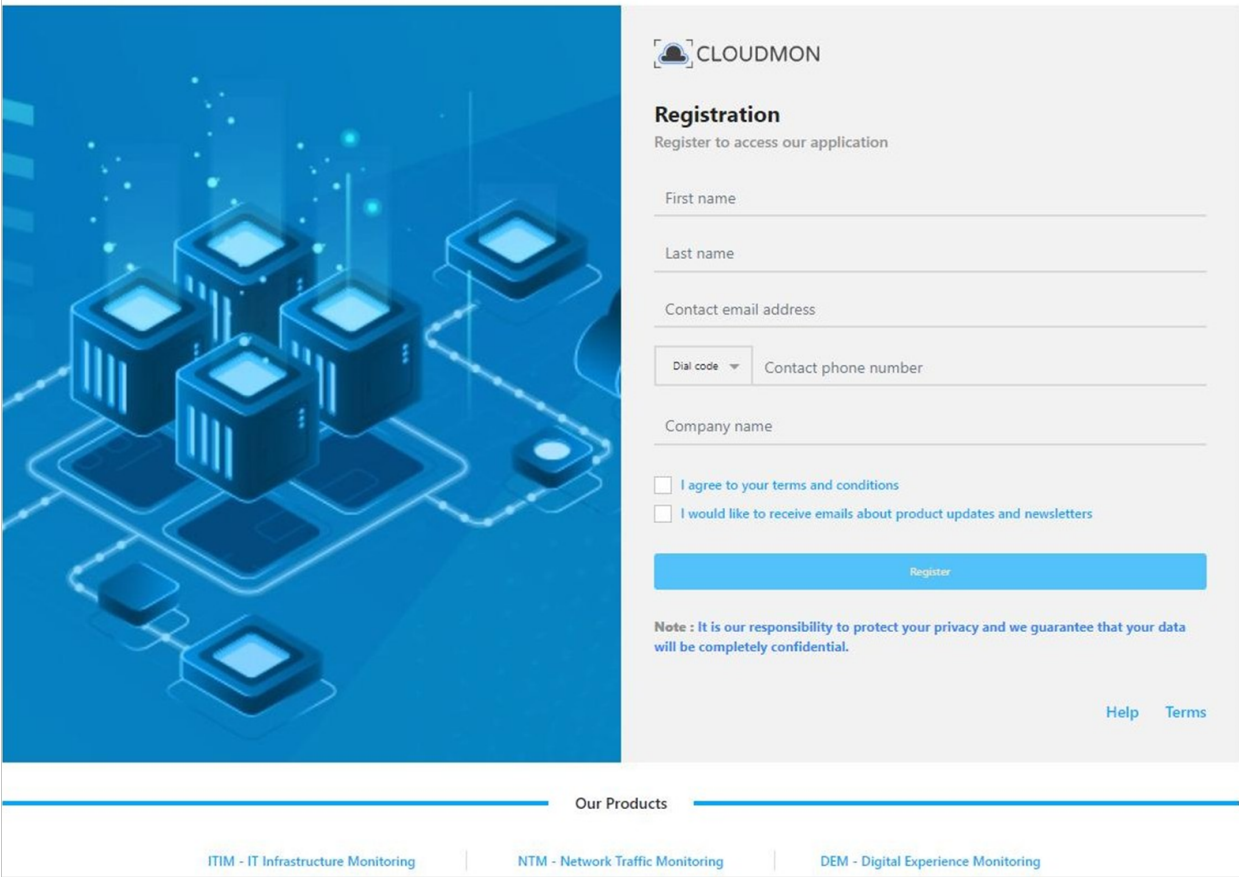


11. On the successful opening of the Cloudmon virtual machine, you can see the Cloudmon console. The console will display the IP address assigned and how to access Cloudmon portal.



12. For assigning IP address or route manually, refer section Configuring IP address.
13. Using Chrome or Firefox or Microsoft Edge browser open Cloudmon portal using – <https://<VM IP address>> or <http://<VM IP address>>

14. 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.



CLOUDMON

Registration

Register to access our application

First name

Last name

Contact email address

Dial code Contact phone number

Company name

☐ I agree to your terms and conditions

☐ I would like to receive emails about product updates and newsletters

Register

Note : It is our responsibility to protect your privacy and we guarantee that your data will be completely confidential.

Help Terms

Our Products

ITIM - IT Infrastructure Monitoring | NTM - Network Traffic Monitoring | DEM - Digital Experience Monitoring

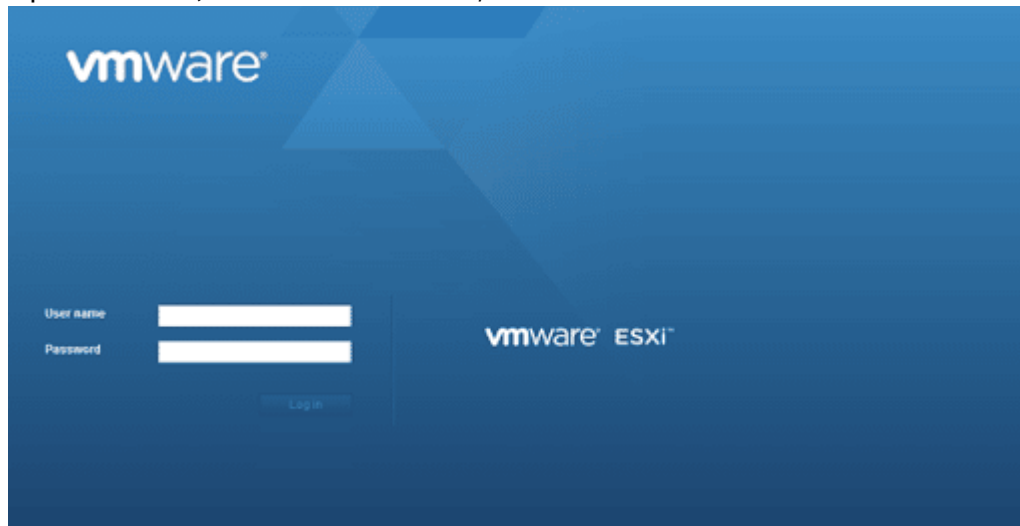
Cloudmon Itim On Vmware

Cloudmon Itim Can Be Installed As A Vmware Virtual Machine On Vmware Esxi Host. Follow The Below Steps To Install:

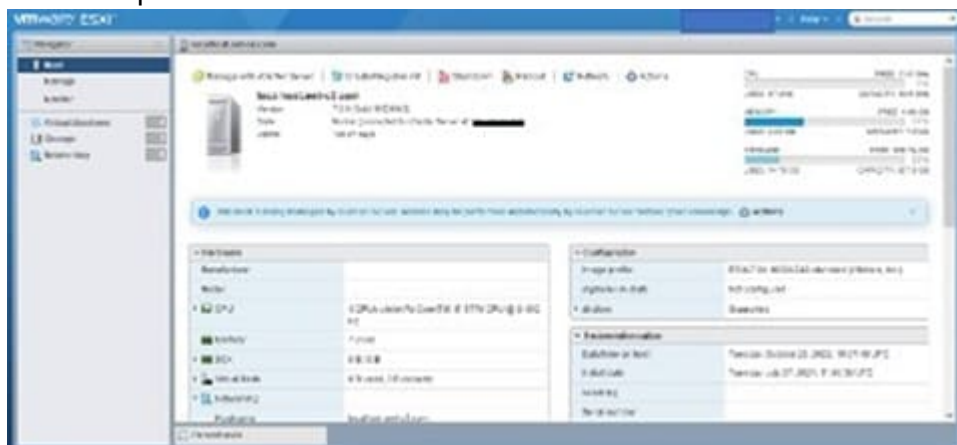
1. Download [Cloudmon ITIM OVA](#) image.
2. Login into VMware ESXi host.
3. Create Cloudmon ITIM as Virtual Machine.

Login Into Vmware Esxi Host

1. Open browser, enter the IP Address/ Hostname of ESXi.



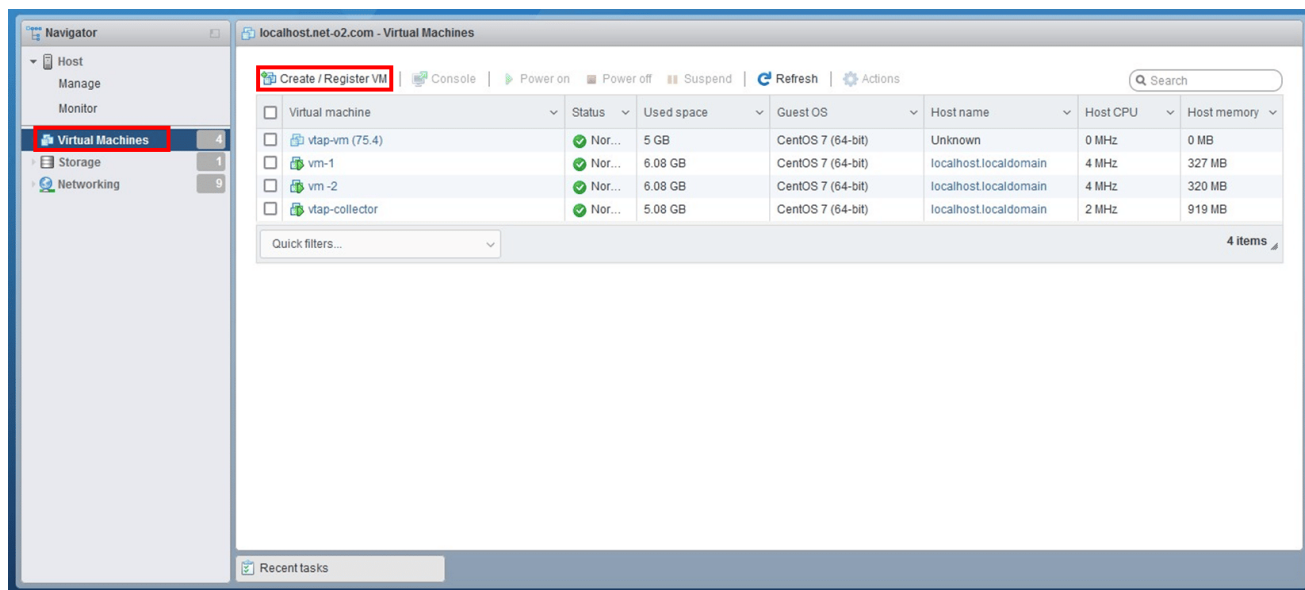
2. Enter the Username and password.



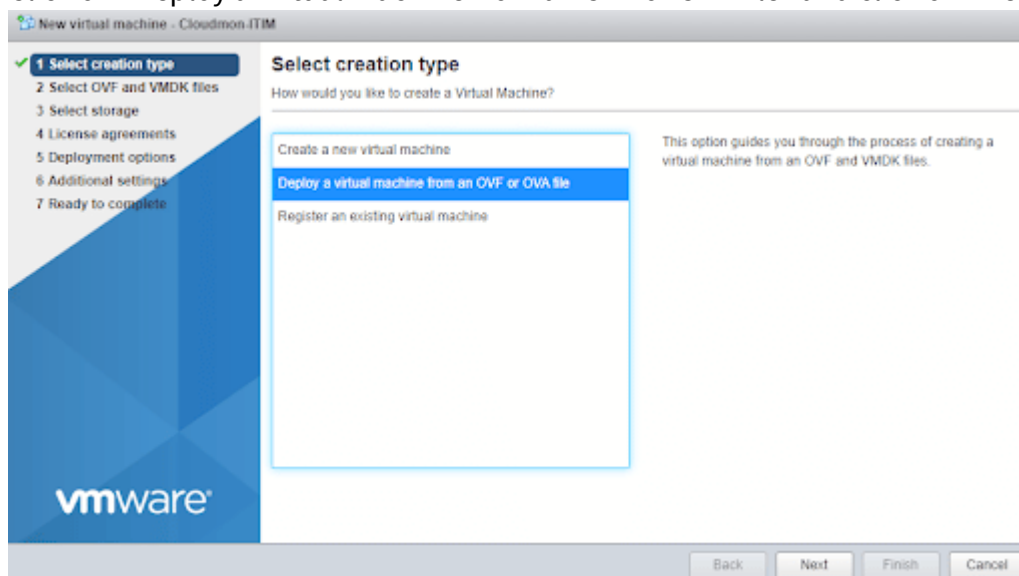
3. Click on Log in.

Create Cloudmon Itim As Vmware Virtual Machine

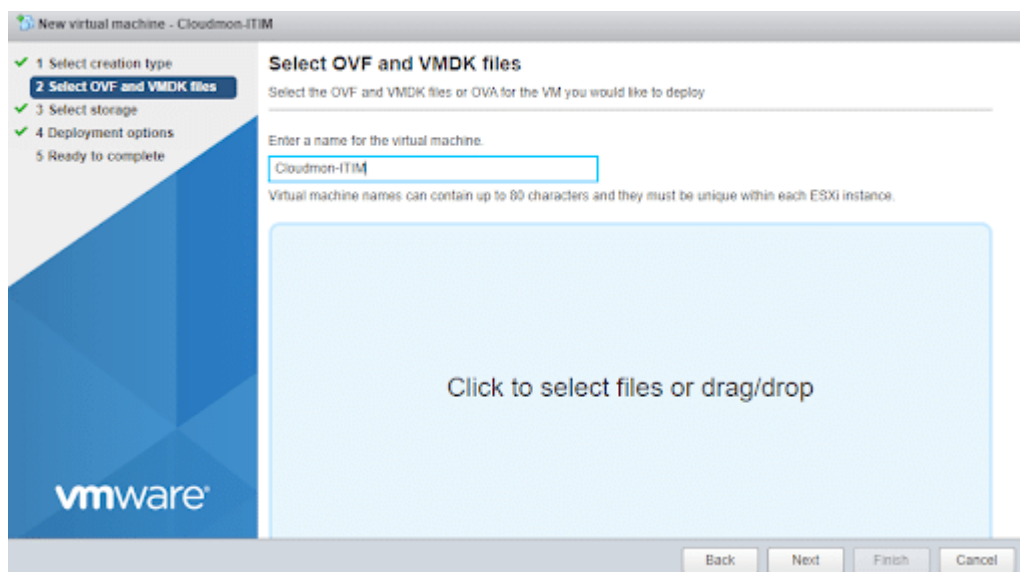
1. Select the Virtual machines menu, click “Create/ Register VM”.



- Click on “Deploy a virtual machine from an OVF or OVA file” and click on “Next”.

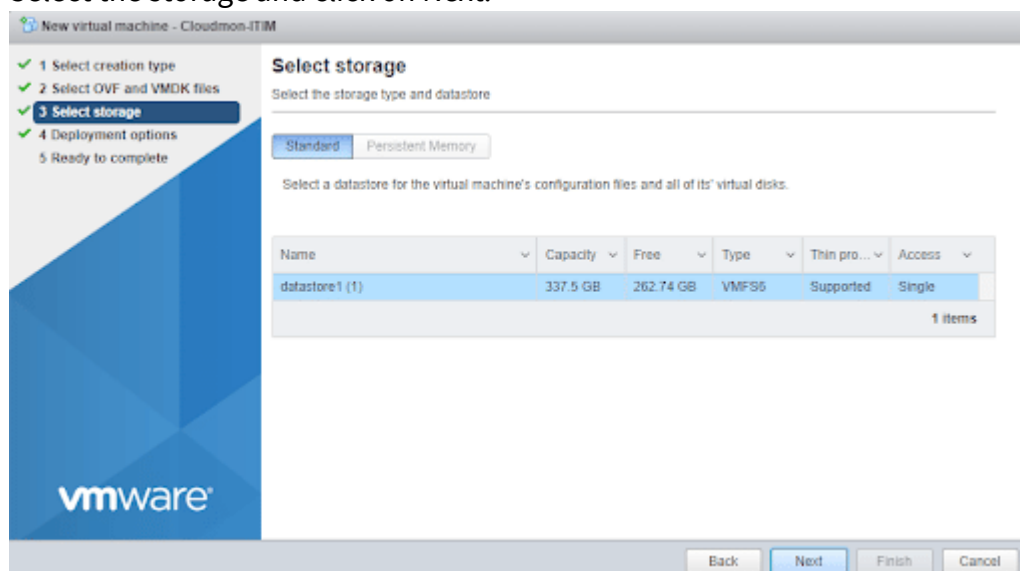


- Enter a name for the virtual Click on the below blue box to select the Cloudmon ITIM OVA and then

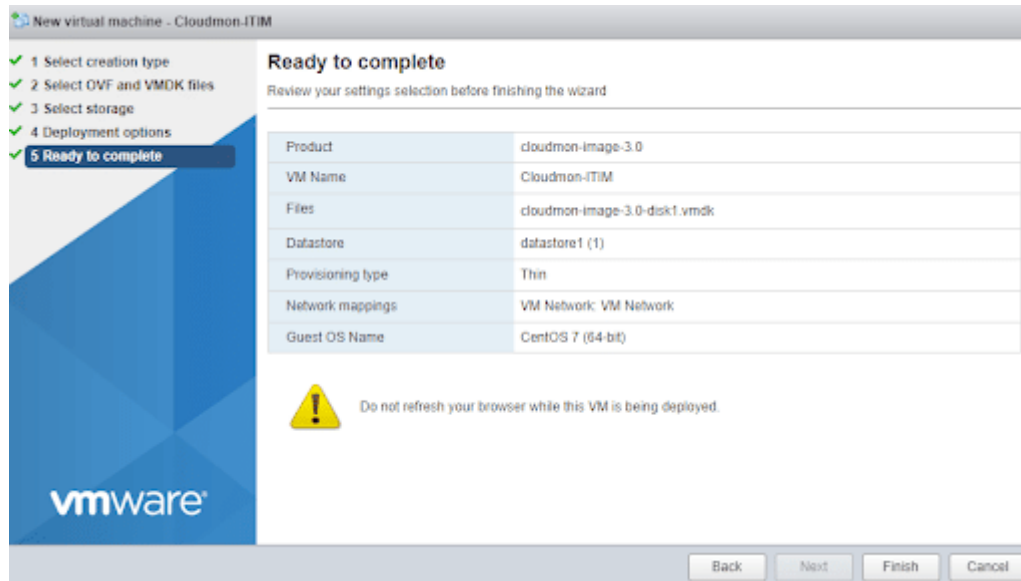


click next.

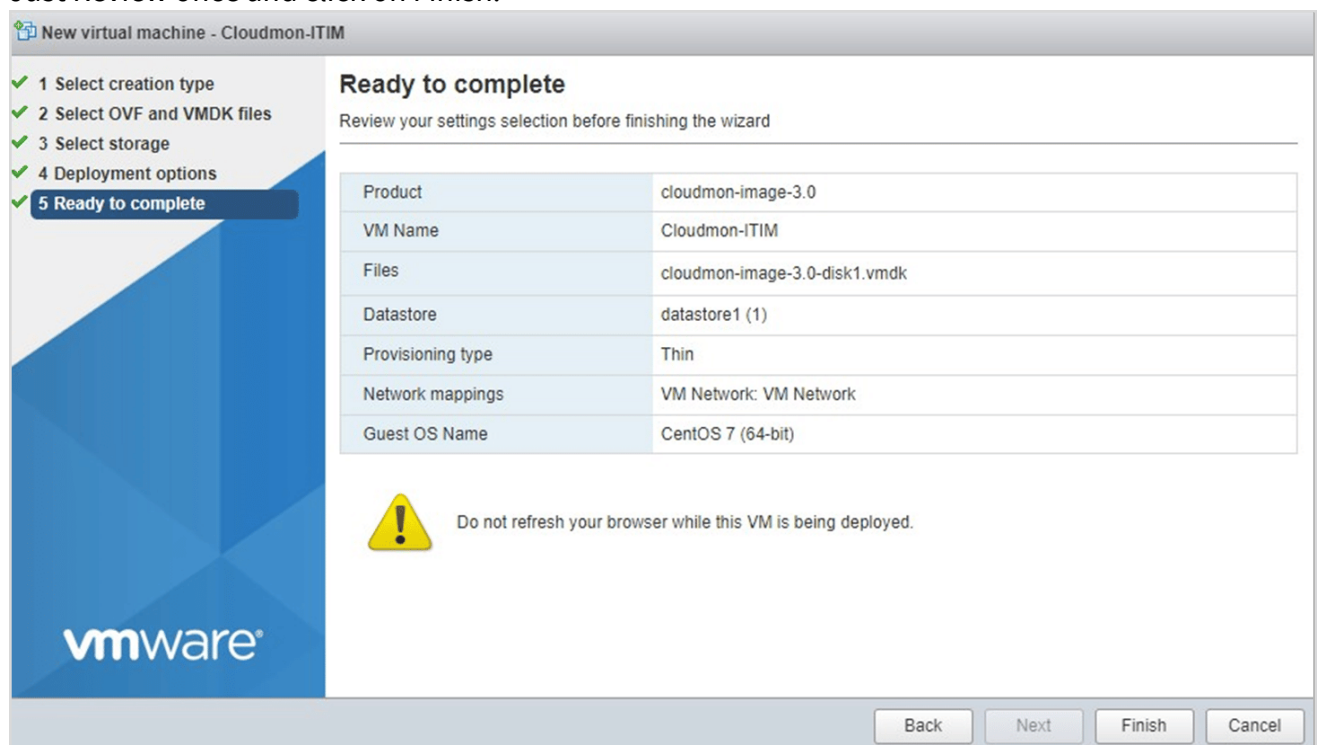
4. Select the storage and click on Next.



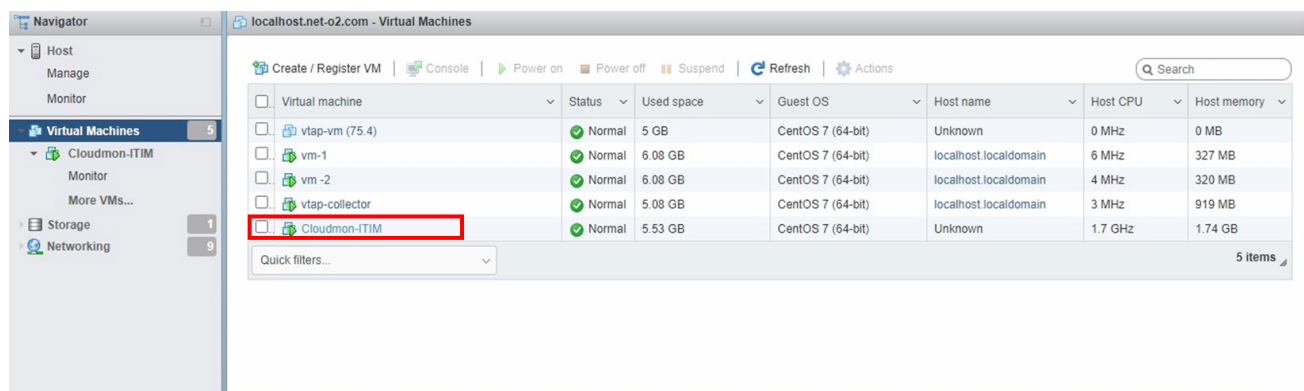
5. Select Network mappings, enable Power on automatically, and click on Next.



6. Just Review once and click on Finish.



7. Open the Cloudmon ITIM Virtual machine, by clicking on its name.



Virtual machine	Status	Used space	Guest OS	Host name	Host CPU	Host memory
vtap-vm (75.4)	Normal	5 GB	CentOS 7 (64-bit)	Unknown	0 MHz	0 MB
vm-1	Normal	6.08 GB	CentOS 7 (64-bit)	localhost.localdomain	6 MHz	327 MB
vm-2	Normal	6.08 GB	CentOS 7 (64-bit)	localhost.localdomain	4 MHz	320 MB
vtap-collector	Normal	5.08 GB	CentOS 7 (64-bit)	localhost.localdomain	3 MHz	919 MB
Cloudmon-ITIM	Normal	5.53 GB	CentOS 7 (64-bit)	Unknown	1.7 GHz	1.74 GB

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



Note:

By default, the Cloudmon uses **DHCP to get IP address** automatically (there could be a delay, press enter if you do not see an IP address)

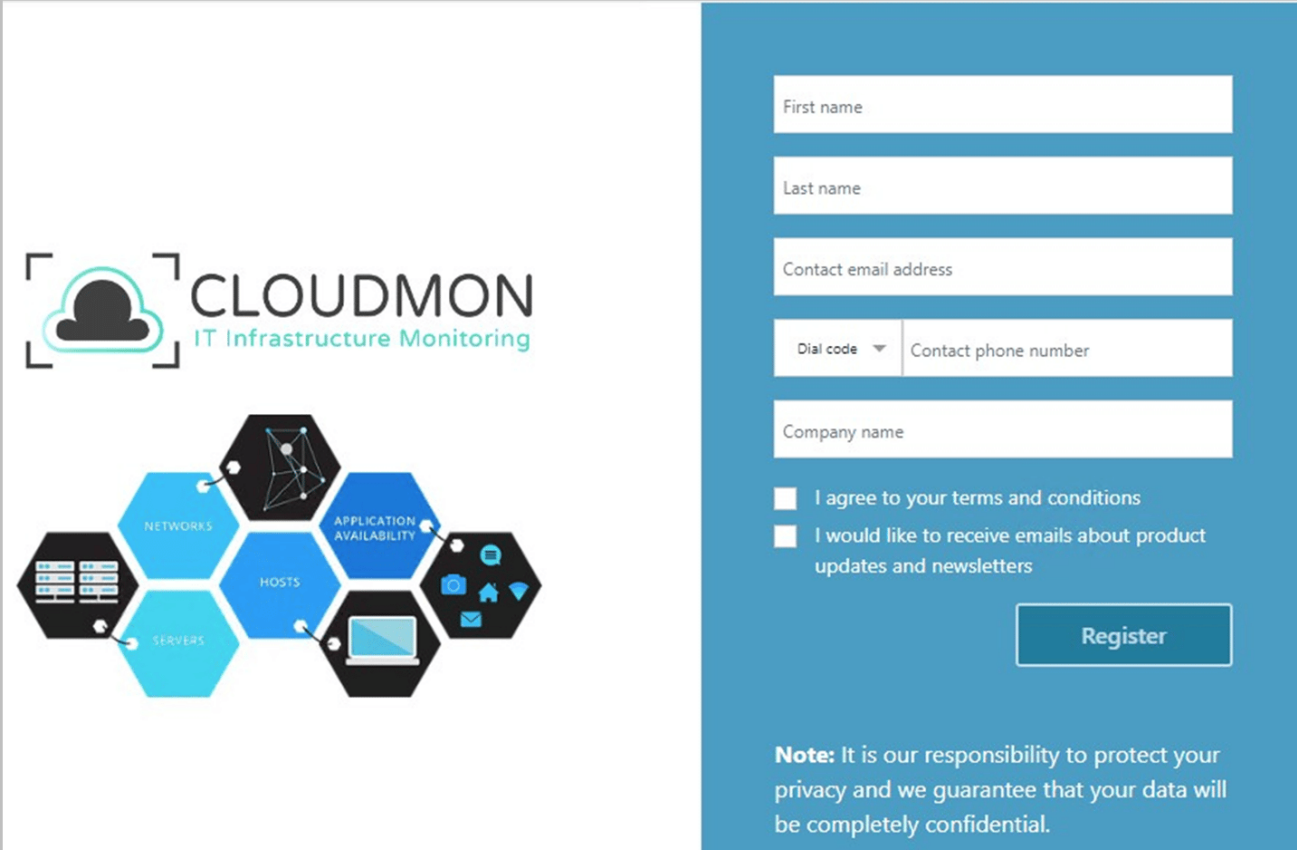


9. For assigning IP address or route manually, refer section [Configuring IP address.](#)
10. Using Chrome or Firefox or Microsoft Edge browser open Cloudmon portal using – <https://<VM IP address>> or <http://<VM IP address>>
11. Upon first time access, you will be directed to registration page. Fill 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 to have internet connectivity all the time to get periodic product updates



The image shows a registration form for Cloudmon IT Infrastructure Monitoring. On the left, there is a logo with a cloud icon and the text "CLOUDMON IT Infrastructure Monitoring". Below the logo is a hexagonal diagram with icons for NETWORKS, APPLICATION AVAILABILITY, HOSTS, and SERVERS. On the right, there is a registration form with the following fields: First name, Last name, Contact email address, Dial code (dropdown), Contact phone number, and Company name. Below these fields 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 states: "Note: It is our responsibility to protect your privacy and we guarantee that your data will be completely confidential."

Cloudmon Itim On Centos Server

1. Open the terminal in your server.
2. Ensure you have elevated access and internet connectivity.
3. Execute the following command to install Cloudmon ITIM All-in-One,

```
curl -sSL https://bit.ly/cloudmonitim | sudo bash
```

This Will Install The Following Components,

- Cloudmon ITIM Controller, which stores data and provides you the dashboards, reports and more.
- Cloudmon ITIM Agent, which helps you monitor system metrics of this server.
- Cloudmon ITIM Probe, which helps you monitor IP endpoints and Network devices.

Please Refer To The Image Below, The Following Will Be Obtained After Command Execution.

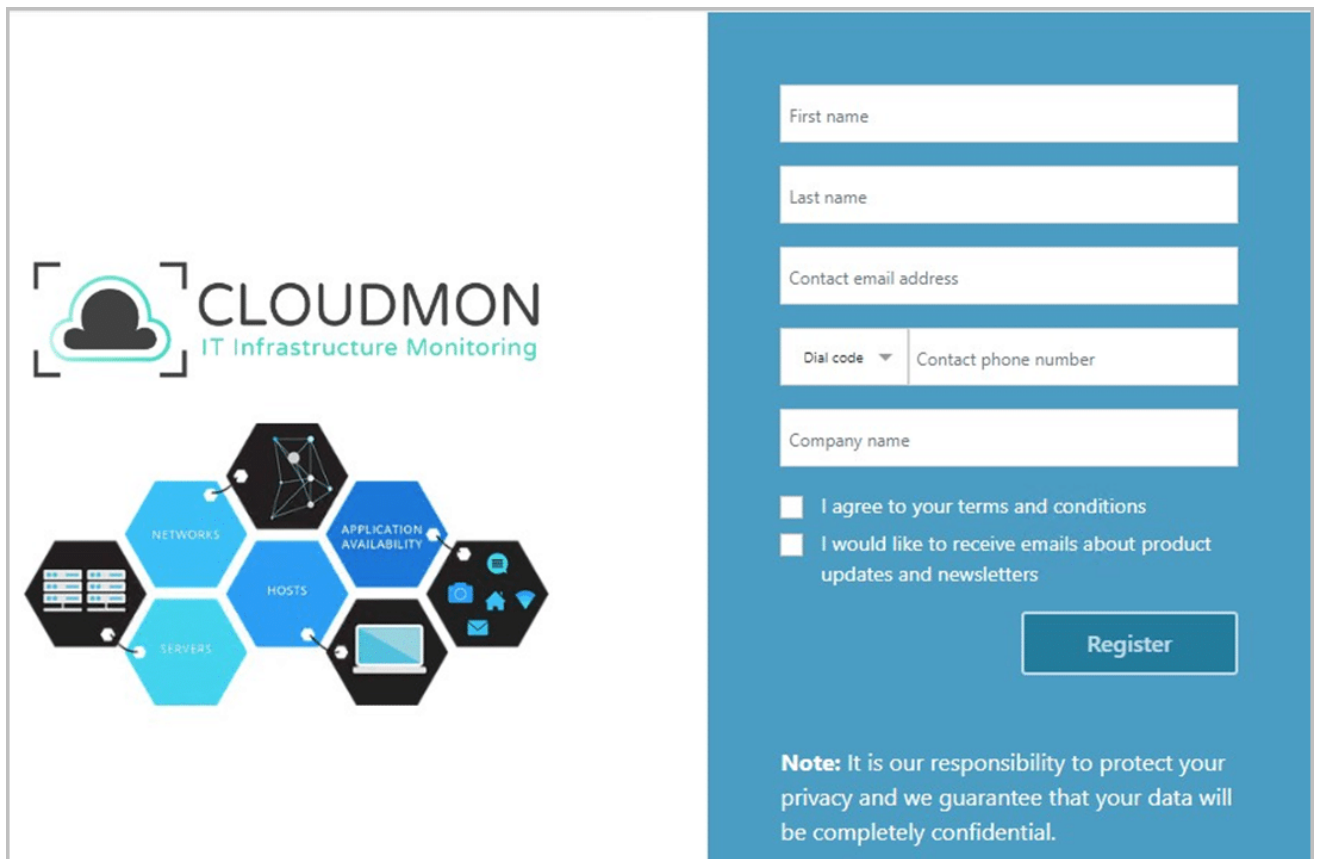
```
[root@localhost ~]# curl -sSL https://bit.ly/cloudmonitim | sudo bash
Log: /var/log/cloudmon-install-2022-11-01_15-53-14.log
Installing Cloudmon ITIM All-in-one
✓ CentOS 7.9 detected
✓ Cloudmon repo updated
✓ Installed mongodb-org-server-4.4.6-1.el7.x86_64
✓ Installed nginx-1.19.9-1.el7ngx.x86_64
✓ Installed nodejs-16.15.1-1nodesource.x86_64
✓ Installed cloudmon-probe-4.2.3-1.el7.x86_64
✓ Installed cloudmon-probe-agent-1.10.0-3.el7.x86_64
✓ Installed cloudmon-collector-1.10.0-2.el7.x86_64
✓ Installed cloudmon-controller-1.10.0-84.el7.x86_64
✓ Installed cloudmon-agent-1.10.1-9.el7.x86_64
✓ Configured cloudmon url as https://127.0.0.1
```

4. For assigning IP address or route manually, refer section Configuring IP address
5. Using Chrome or Firefox or Microsoft Edge browser open Cloudmon portal using – <https://<VM IP address>> or <http://<VM IP address>>
6. Upon first time access, you will be directed to registration 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.



The image shows a registration form for Cloudmon IT Infrastructure Monitoring. On the left, there is a logo consisting of a cloud icon with a monitor inside, followed by the text "CLOUDMON" and "IT Infrastructure Monitoring" below it. Below the logo is a hexagonal diagram with six hexagons. The top-left hexagon is labeled "NETWORKS" and contains a network diagram. The top-right hexagon is labeled "APPLICATION AVAILABILITY" and contains a server rack icon. The bottom-left hexagon is labeled "SERVERS" and contains a server rack icon. The bottom-right hexagon is labeled "HOSTS" and contains a laptop icon. The central hexagon is labeled "HOSTS" and contains a server rack icon. The registration form on the right has a blue background and contains the following fields: "First name", "Last name", "Contact email address", "Dial code" (a dropdown menu), "Contact phone number", and "Company name". Below these fields 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."

CLOUDMON
IT Infrastructure Monitoring

NETWORKS
APPLICATION AVAILABILITY
HOSTS
SERVERS

First name
Last name
Contact email address
Dial code ▼ Contact phone number
Company name

☐ I agree to your terms and conditions
☐ I would like to receive emails about product updates and newsletters

Register

Note: It is our responsibility to protect your privacy and we guarantee that your data will be completely confidential.

Configuring Ip Address

For Assigning Ip Address Or Route Manually

1. Login into the VM using the following credentials,



Username: cloudmon

Password: iamcloudmonuser

2. Enter “cloudmon” to view all the commands supported.

```
cloudmon controller> cloudmon
Usage: cloudmon <COMMAND> [OPTIONS]
COMMANDS:
  help          Print this help and exit
  version       Print cloudmon version and exit
  start         Start cloudmon service
  stop          Stop cloudmon service
  restart       Restart cloudmon service
  set           Configure cloudmon
  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:
cloudmon set ip dhcp
cloudmon set ip 192.168.75.201
cloudmon set ip 192.168.75.201 gw 192.168.75.1 prefix 24
cloudmon set route 192.168.20.0/24 192.168.75.254
cloudmon set dns 8.8.8.8,4.4.4.4
cloudmon set date 2019-01-26 05:30:00
cloudmon set timezone America/New_York
cloudmon set ntp true
cloudmon show interfaces
cloudmon show date
cloudmon controller>
```

3. Command to assign IP Address:

cloudmon controller > cloudmon set ip 192.168.12.61

4. Enter “cloudmon show interfaces” to view the assigned IP Address.

```
cloudmon controller> cloudmon show interfaces
lo          UNKNOWN      127.0.0.1/8
eth0        UP           192.168.20.124/24
cloudmon controller>
```

x

