



Snapshots, Networking and VMware Player

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or as an advance appointment

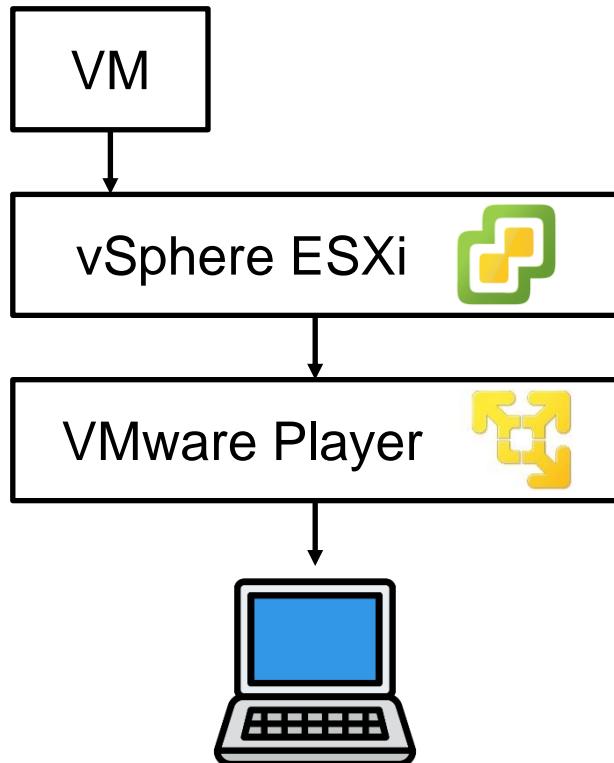
Agenda

- Create a VM
- Install OS on VMware VM
- VM Management
- VM Snapshot





Create a VM





Login - VMware ESXi

Not secure | https://192.168.199.128/ui/#/login

vmware
ESXi Host Client™

root

LOGIN

Open the VMware Host Client documentation

This is a screenshot of the VMware ESXi Host Client login interface. The window title is "Login - VMware ESXi". The address bar shows "Not secure | https://192.168.199.128/ui/#/login". The main content area features the VMware logo and "ESXi Host Client™" text. It has two input fields: one for the username "root" and one for the password, which is masked with asterisks. A large, semi-transparent watermark consisting of several overlapping diagonal bands in shades of blue and teal is centered over the login form. At the bottom of the window, there is a checkbox labeled "Open the VMware Host Client documentation". The right side of the window includes a vertical toolbar with various icons and a status bar at the bottom right.



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host

vm ESXi Host Client

Host

Get vCenter Server | Create/Register VM | Shut down | Reboot | Refresh | Actions

esxi1.localdomain

Version: 7.0 Update 3
State: Normal (not connected to any vCenter Server)
Uptime: 0.02 days

You are currently using ESXi in evaluation mode. This license will expire in 45 days.

Hardware

Manufacturer	VMware, Inc.
Model	VMware20.1
CPU	2 CPUs x Intel(R) Core(TM) i7-3770S CPU @ 3.10GHz
Memory	4 GB
Virtual flash	2.75 GB used, 119.75 GB capacity
Networking	Hostname: esxi1.localdomain
IP addresses	1. vmk0: 192.168.199.128 2. vmk0: fe80::20c:29ff:fe6e:3f99
DNS servers	1. 192.168.199.2
Default gateway	192.168.199.2
IPv6 enabled	Yes
Host adapters	1

Configuration

Image profile	ESXi-7.0U3n-21930508-standard (VMware, Inc.)
vSphere HA state	Not configured
vMotion	Supported

System Information

Date/time on host	Wednesday, February 28, 2024, 08:16:16 UTC
Install date	Sunday, February 11, 2024, 15:50:35 UTC
Asset tag	No Asset Tag
Serial number	VMware-56 40 e6 1e 52 24 60 a7-9d 35 39 57 c2 6e 3f 39
BIOS version	VMW201.00V.21B05430.864.2305221830
BIOS release date	Monday, May 22, 2023, 07:00:00 +0700

Performance summary last hour

Consumed host CPU
Consumed host memory

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms

vm ESXi Host Client

Navigator

Host

Manage

Monitor

Virtual Machines

Create / Register VM

Console

Power on

Power off

Suspend

Refresh

Actions

No virtual machines

Quick filters...

Storage

Networking

root@192.168.199.128 | Help | Search

Recent tasks

Task

Target

Initiator

Queued

Started

Result

Completed

6

The screenshot shows the VMware ESXi Host Client interface. The main window title is "esxi1.localdomain - VMware ESXi". The address bar indicates it's an "https" connection. The left sidebar has sections for "Navigator", "Host" (Manage, Monitor), and "Virtual Machines". Under "Virtual Machines", there is a "Create / Register VM" button and a table with columns for "Status", "Used space", "Guest OS", "Host name", "Host CPU", and "Host memory". The table displays "No virtual machines" and "No items to display". The bottom section shows a "Recent tasks" table with columns for Task, Target, Initiator, Queued, Started, Result, and Completed. The table is currently empty. On the right side, there is a vertical toolbar with various icons for management tasks like storage, networking, and monitoring.



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms

vm ESXi Host Client

Navigator Host Virtual Machines Create / Register VM

Host Manage Monitor

Virtual Machines Storage Networking

Quick filters... New virtual machine

Select creation type

How would you like to create a Virtual Machine?

Create a new virtual machine Deploy a virtual machine from an OVF or OVA file Register an existing virtual machine

This option guides you through creating a new virtual machine. You will be able to customize processors, memory, network connections, and storage. You will need to install a guest operating system after creation.

CANCEL BACK NEXT FINISH

Recent tasks

Task Target Initiator Queued Started Result Completed

7

The screenshot shows the VMware ESXi Host Client interface. A modal dialog titled "New virtual machine" is open, prompting the user to "Select creation type". The "Create a new virtual machine" option is selected. The dialog also lists other options: "Deploy a virtual machine from an OVF or OVA file" and "Register an existing virtual machine". Below the dialog, a brief description explains that this option guides the user through creating a new virtual machine, allowing customization of processors, memory, network connections, and storage, but noting that a guest operating system must be installed after creation. At the bottom of the dialog are "CANCEL", "BACK", "NEXT", and "FINISH" buttons. The background of the host client shows the "Virtual Machines" section with no items displayed, and the "Storage" and "Networking" sections. The status bar at the bottom indicates recent tasks and completed operations.



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms

ESXi Host Client

Create / Register VM

No virtual machines

New virtual machine - Linux1 (ESXi 7.0 U2 virtual machine)

Select a name and guest OS

Specify a unique name and OS

Name: Linux1

Virtual machine names can contain up to 80 characters and they must be unique within each ESXi instance.

Identifying the guest operating system here allows the wizard to provide the appropriate defaults for the operating system installation.

Compatibility: ESXi 7.0 U2 virtual machine

Guest OS family: Linux

Guest OS version: Ubuntu Linux (64-bit)

CANCEL BACK NEXT FINISH

Recent tasks

Task Target Initiator Queued Started Result Completed



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms

vm ESXi Host Client

Navigator Host Virtual Machines Create / Register VM Console Power on Power off Refresh Actions

Virtual Machines Storage Networking

New virtual machine - Linux1 (ESXi 7.0 U2 virtual machine)

Select storage

Select the storage type and datastore

Standard Persistent Memory

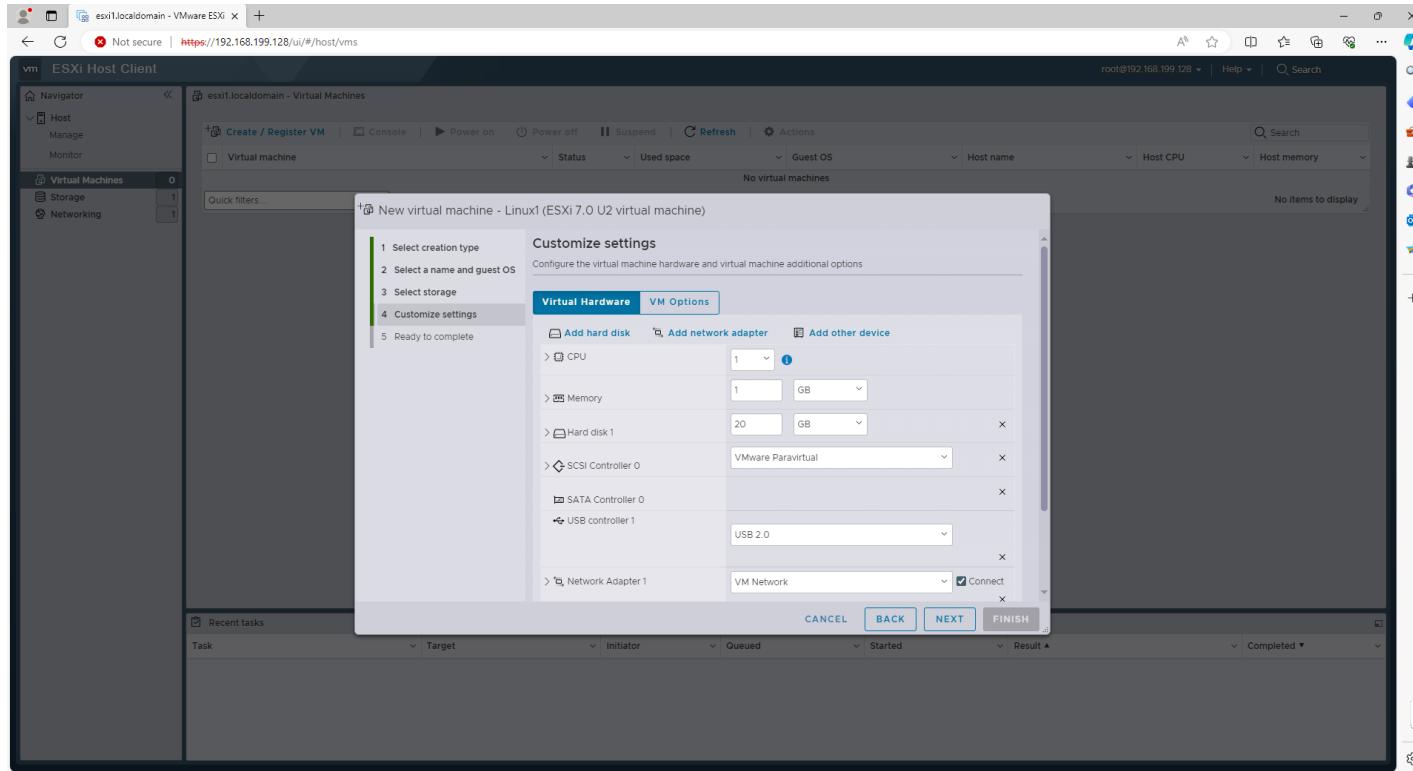
Select a datastore for the virtual machine's configuration files and all of its virtual disks.

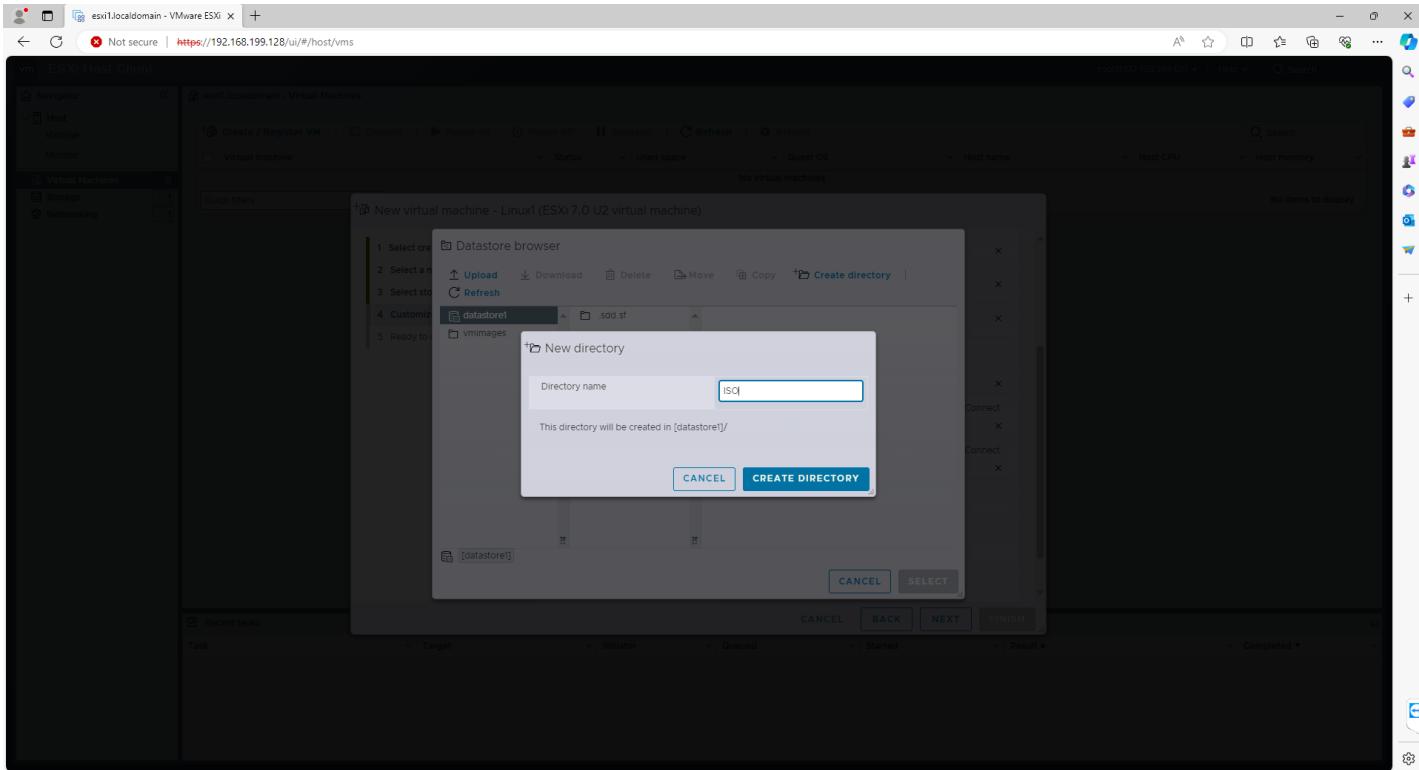
Name	Capacity	Free	Type	Thin provis.	Access
datastore1	71.75 GB	70.34 GB	VMFS6	Supported	Single

CANCEL BACK NEXT FINISH

Task Target Initiator Queued Started Result Completed

9







esxi.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms

vm ESXi Host Client

New virtual machine - Linux1 (ESXi 7.0 U2 virtual)

Datastore browser

Upload Download Delete Refresh

datastore ISO

File name: ubuntu-22.04.4-live-server-amd64

Open Cancel

Navigator

Host

Virtual Machines

Create / Register VM

Console Power on Power off Status

Storage Networking

Quick filters...

1 Select creation type 2 Select a template 3 Select storage 4 Customize 5 Ready to

Downloads

ISO

File name: ubuntu-22.04.4-live-server-amd64

File name: All files Open Cancel

File name: [datastore] ISO/

CANCEL SELECT

Task Target Initiator Queued Started Result Completed

Make Directory None root 03/28/2024 15:51:06 03/28/2024 15:51:06 Completed successfully 03/28/2024 15:51:06

https://192.168.199.128/ui/



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms

vm - ESXi Host Client

Navigator

Host

Manage

Monitor

Virtual Machines

Storage

Networking

Create / Register VM

Console

Power on

Power off

Suspend

Actions

Virtual machine

Status

Used space

Guest OS

Host name

Host CPU

Host memory

Search

Quick filters

New virtual machine - Linux (ESXi 7.0 U2 virtual machine)

Datastore browser

Upload Download Delete Move Copy Refresh

1 Select creation type

2 Select a name

3 Select storage

4 Customize configuration

5 Ready to power on

[datastore1] ISO/

ISO

vmimages

sdd.sf

Connect

Connect

CANCEL SELECT

BACK NEXT FINISH

Task Target Initiator Queued Started Result Completed

Task	Target	Initiator	Queued	Started	Result	Completed
Upload file to datastore	[datastore1]	root	03/28/2024 15:59:40	03/28/2024 15:59:40	Running	03/28/2024 15:59:40
Get by inventory Path	None	root	03/28/2024 15:59:40	03/28/2024 15:59:40	Completed successfully	03/28/2024 15:59:40
Make Directory	None	root	03/28/2024 15:51:06	03/28/2024 15:51:06	Completed successfully	03/28/2024 15:51:06



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms

vm - ESXi Host Client

Navigatior

Host

Manage

Monitor

Virtual Machines

Storage

Networking

Create / Register VM

Console

Power on

Power off

Suspend

Refresh

Actions

No virtual machines

Quick filters...

New virtual machine - Linux1 (ESXi 7.0 U2 virtual machine)

Datastore browser

Upload Download Delete Move Copy Create directory Refresh

datastore1

ssd sf

ubuntu-22.04.4-ll...

ubuntu-22.04.4-live-server-amd64.iso

1.96 GB

Wednesday, February 28, 2024, 16:03:26 +0700

vmimages

ISO

CANCEL SELECT

Task Target Initiator Queued Started Result Completed

BACK NEXT FINISH

Recent tasks

14



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms

vm ESXi Host Client

Create / Register VM

New virtual machine - Linux1 (ESXi 7.0 U2 virtual machine)

1 Select creation type
2 Select a name and guest OS
3 Select storage
4 Customize settings
5 Ready to complete

SCSI Controller 0: VMware Paravirtual
SATA Controller 0: SATA Controller 0
USB controller 1: USB 2.0
Network Adapter 1: VM Network
CD/DVD Drive 1: Datastore ISO file
Status: Connect at power on
CD/DVD Media: [datastore1] ISO/ubuntu-22.04.4-live-server-amd64
Controller location: SATA controller 0 / SATA (0:0)
Video Card: Default settings

CANCEL BACK NEXT FINISH

Task Target Initiator Queued Started Result Completed



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui#/host/vms

vm ESXi Host Client

Navigator Host Manage Monitor Virtual Machines

Create / Register VM Console Power on Power off Refresh Actions

No virtual machines

Quick filters... New virtual machine - Linux1 (ESXi 7.0 U2 virtual machine)

1 Select creation type Guest OS name Ubuntu Linux (64-bit)
2 Select a name and guest OS Compatibility ESXi 7.0 U2 virtual machine
vCPUs 1
3 Select storage Memory 1 GB
Network adapters 1
4 Customize settings Network adapter 1 network VM Network
Network adapter 1 type VMXNET 3
IDE controller 0 IDE 0
IDE controller 1 IDE 1
SCSI controller 0 VMware Paravirtual
SATA controller 0 New SATA controller
Hard disk 1 Capacity 20 GB
Datastore [datastore1] Linux1/
Mode Dependent
Provisioning Thick provisioned, lazily zeroed
Controller SCSI controller 0 : 0
CD/DVD drive 1

CANCEL BACK NEXT FINISH

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed

16



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms

ESXi Host Client

Virtual machine Linux1 was successfully created.

Create / Register VM | Console | Power on | Power off | Suspend | Refresh | Actions

Virtual machine	Status	Used space	Guest OS	Host name	Host CPU	Host memory
Linux1	Normal	0 B	Ubuntu Linux (64-bit)	Unknown	0 MHz	0 MB

Virtual Machines 1

Storage 1

Networking 1

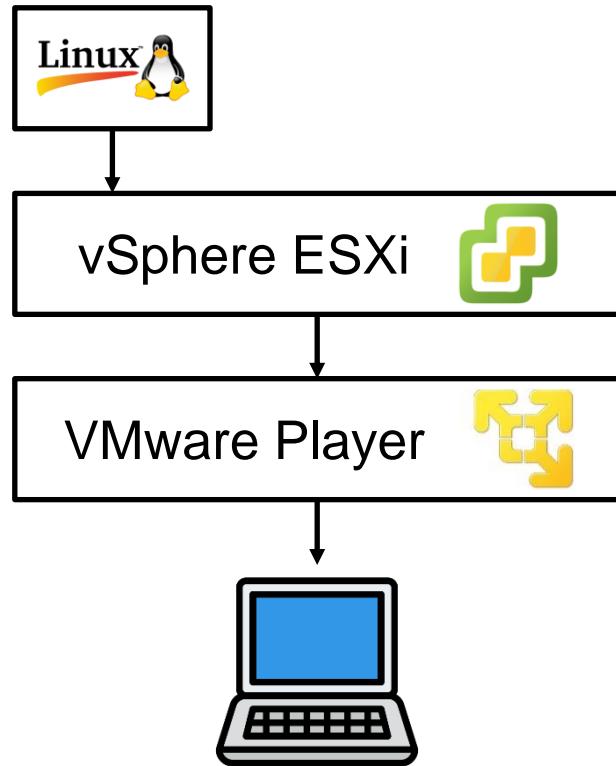
Quick filters...

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Create VM	vm	root	02/28/2024 17:16:06	02/28/2024 17:16:06	Completed successfully	02/28/2024 17:16:06



Install OS on VMware VM





esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms

root@192.168.199.128 | Help | Search

ESXi Host Client

Virtual machine Linux1 was successfully created.

Create / Register VM | Console | Power on | Power off | Suspend | Refresh | Actions

Virtual machine | Status | Used space | Guest OS | Host name | Host CPU | Host memory

Linux1 | Normal | 0 B | Ubuntu Linux (64-bit) | Unknown | 0 MHz | 0 MB

Quick filters...

Virtual Machines 1

Storage 1

Networking 1

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Create VM	vm	root	02/28/2024 17:16:06	02/28/2024 17:16:06	Completed successfully	02/28/2024 17:16:06



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms/1

ESXi Host Client

vm Linux1

Console Monitor Power on Power off Suspend Restart Edit Refresh Actions

Linux1

Guest OS: Ubuntu Linux (64-bit)
Compatibility: ESXi 7.0 U2 virtual machine
VMware Tools: No
CPUs: 1
Memory: 1 GB

CPU: 0 MHz
MEMORY: 0 B
STORAGE: 20 GB

VMware Tools is not installed in this virtual machine. VMware Tools allows detailed guest information to be displayed as well as allowing you to perform operations on the guest OS, e.g. graceful shutdown, reboot, etc. You should install VMware Tools.

Actions

General Information

Networking VMware Tools Storage Notes Actions

VMware Tools is not installed.

1 disk

Edit notes

Hardware Configuration

CPU: 1 vCPUs
Memory: 1 GB
Hard disk 1: 20 GB
USB controller: USB 2.0
Network adapter 1: VM Network (Connected)
Video card: 4 MB
CD/DVD drive 1: ISO [datastore1] ISO/ubuntu-22.04.4-live-server-amd64.iso Select disc image

Others: Additional Hardware

Resource Consumption

Consumed host CPU: 0 MHz

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Create VM	vm	root	02/28/2024 17:16:06	02/28/2024 17:16:06	Completed successfully	02/28/2024 17:16:06



esxi.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms/1

vm ESXi Host Client

Navigator Host Linux1 Actions Refresh Actions

Host Manager Monitor

Virtual Machines 1

Linux1

GNU GRUB version 2.06

*Try or Install Ubuntu Server
Ubuntu Server with the HWE kernel
Test memory

Use the ↑ and ↓ keys to select which entry is highlighted.
Press enter to boot the selected OS. 'g' to edit the commands
before booting or 'c' for a command-line.
The highlighted entry will be executed automatically in 10s.

VMware Tools is not installed.

Storage 1 disk Notes Edit notes

Performance summary last hour

Consumed host CPU Ready Consumed host memory...

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Create VM	vm	root	02/28/2024 17:16:06	02/28/2024 17:16:06	Completed successfully	02/28/2024 17:16:06
Power On VM	Linux1	root	02/28/2024 17:32:04	02/28/2024 17:32:04	Completed successfully	02/28/2024 17:32:05

Actions

Hardware Configuration

- CPU 1 vCPUs
- Memory 1 GB
- Hard disk 1 20 GB
- USB controller USB 2.0
- Network adapter 1 VM Network (Connected)
- Video card 16 MB
- CD/DVD drive 1 ISO [datastore1] ISO/ubuntu-22.04.4-live-server-amd64.iso Select disc image
- Others Additional Hardware

Resource Consumption

Actions

Search

Icons



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms/1

vm ESXi Host Client

Navigator Host Virtual Machines Linux1 Storage Networking

Linux1 Actions

phphan-server login: phphan
Password:
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-97-generic x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro

System information as of Wed Feb 28 11:05:54 AM UTC 2024
System load: 0.50244140625 Processes: 225
Usage of /: 47.7% of 9.75GB Users logged in: 0
Memory usage: 29% IP4 address for ens192: 192.168.199.131
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.
2 updates can be applied immediately.
To see these additional updates run: apt list --upgradable
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

phphan@phphan-server:~\$

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Power Off VM	Linux1	root	02/28/2024 17:48:55	02/28/2024 17:48:55	Completed successfully	02/28/2024 17:48:55
Power On VM	Linux1	root	02/29/2024 17:32:04	02/28/2024 17:32:04	Completed successfully	02/28/2024 17:32:05
Create VM	vm	root	02/28/2024 17:16:06	02/28/2024 17:16:06	Completed successfully	02/28/2024 17:16:06
Power On VM	Linux1	root	02/28/2024 17:48:58	02/28/2024 17:48:58	Completed successfully	02/28/2024 17:48:58

Actions

root@192.168.199.128 | Help | Search

CPU: 2.8 GHz | MEMORY: 1.04 GB | STORAGE: 21.08 GB

Hardware Configuration

- 1 vCPUs
- 1 GB Memory
- 20 GB Hard disk1
- USB controller: USB 2.0
- VM Network (Connected)
- 16 MB Video card
- ISO [datastore1] ISO/ubuntu-22.04.4-live-server-amd64.iso CD/DVD drive 1
- Select disc image

Resource Consumption

- Consumed host CPU: 2.8 GHz
- Consumed host memory: 1.04 GB
- Active guest memory: 665 MB

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Power Off VM	Linux1	root	02/28/2024 17:48:55	02/28/2024 17:48:55	Completed successfully	02/28/2024 17:48:55
Power On VM	Linux1	root	02/29/2024 17:32:04	02/28/2024 17:32:04	Completed successfully	02/28/2024 17:32:05
Create VM	vm	root	02/28/2024 17:16:06	02/28/2024 17:16:06	Completed successfully	02/28/2024 17:16:06
Power On VM	Linux1	root	02/28/2024 17:48:58	02/28/2024 17:48:58	Completed successfully	02/28/2024 17:48:58

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Power Off VM	Linux1	root	02/28/2024 17:48:55	02/28/2024 17:48:55	Completed successfully	02/28/2024 17:48:55
Power On VM	Linux1	root	02/29/2024 17:32:04	02/28/2024 17:32:04	Completed successfully	02/28/2024 17:32:05
Create VM	vm	root	02/28/2024 17:16:06	02/28/2024 17:16:06	Completed successfully	02/28/2024 17:16:06
Power On VM	Linux1	root	02/28/2024 17:48:58	02/28/2024 17:48:58	Completed successfully	02/28/2024 17:48:58

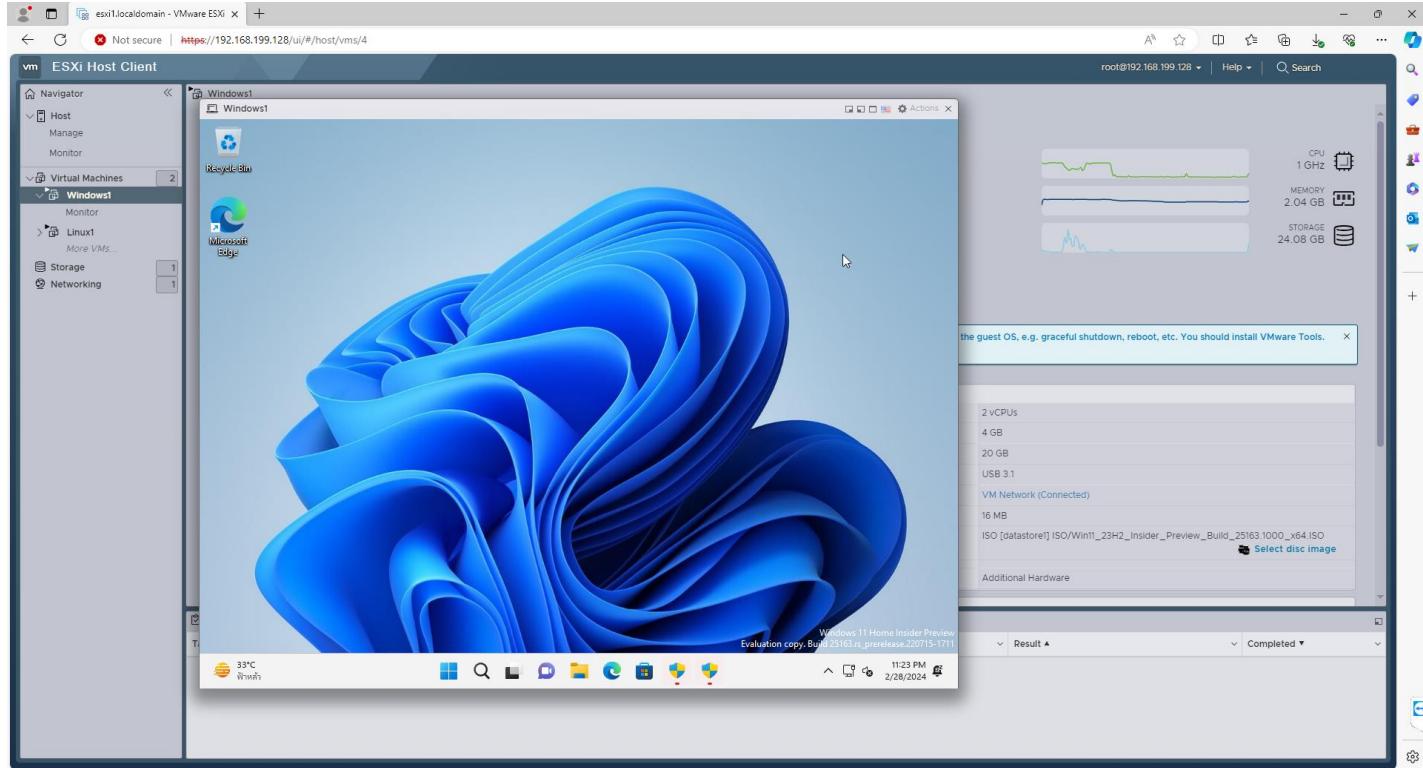


Exercise 1

- Install Windows OS on VMware VM
 - Name: [Windows1](#)
 - Host Device / Datastore ISO file:
C:\Aj.Kitsuchart\Win11_23H2_Insider_Preview_Build_25163.1000_x64.iso

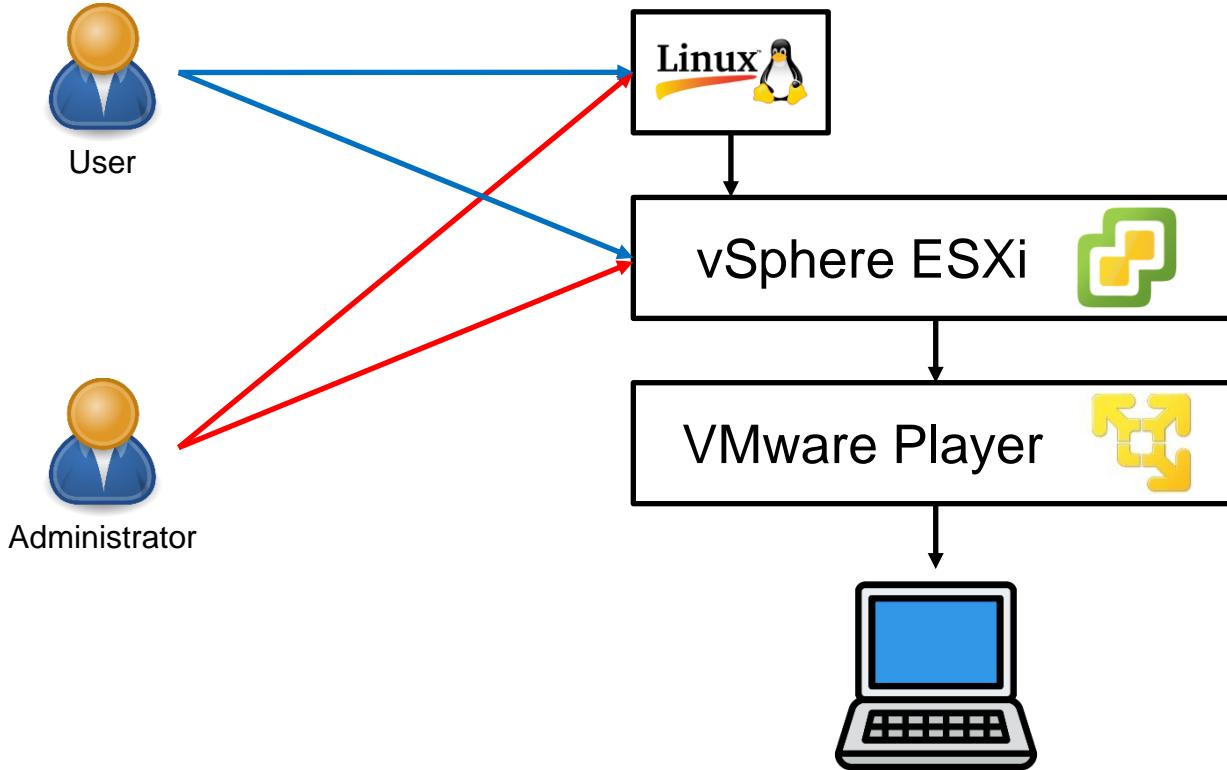


Expected Result





VM Management





esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms/1

vm ESXi Host Client

Host Manager Monitor

Virtual Machines Linux1

Monitor More VMs...

Storage Networking

Console Monitor Power on Shut down Suspend Restart Edit Refresh Actions

Linux1

Guest OS Ubuntu Linux (64-bit)
Compatibility ESXi 7.0 U2 virtual machine
VMware Tools Yes
CPUs 1
Memory 1 GB

General Information Networking VMware Tools Storage Notes

VMware Tools is not managed by vSphere

1 disk

Edit notes

Performance summary last hour

Consumed host CPU Ready Consumed host memory...

Host CPU / Ready (%) 100 80 60 40 0.8 0.6 0.4

Consumed host memory (%) 1 0.8 0.6 0.4

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Shutdown Guest	Linux1	root		02/28/2024 19:04:00	Completed successfully	02/28/2024 19:04:01
Power On VM	Linux1	root		02/28/2024 19:04:11	Completed successfully	02/28/2024 19:04:12

root@192.168.199.128 ~ | Help | Search

CPU 0 MHz MEMORY 333 MB STORAGE 21.08 GB

Hardware Configuration

- CPU 1 vCPUs
- Memory 1 GB
- Hard disk1 20 GB
- USB controller USB 2.0
- Network adapter1 VM Network (Connected)
- Video card 16 MB
- CD/DVD drive1 ISO [datastore1] ISO/ubuntu-22.04.4-live-server-amd64.iso Select disc image
- Others Additional Hardware

Resource Consumption

- Consumed host CPU 0 MHz
- Consumed host memory 333 MB
- Active guest memory 768 MB

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Shutdown Guest	Linux1	root		02/28/2024 19:04:00	Completed successfully	02/28/2024 19:04:01
Power On VM	Linux1	root		02/28/2024 19:04:11	Completed successfully	02/28/2024 19:04:12



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms/1

vm ESXi Host Client

Navigator

Host

Virtual Machines

Linux1

General Information

Networking

VMware Tools

Storage

Notes

VMware Tools is not managed by vSphere

1 disk

Edit notes

Performance summary last hour

Consumed host CPU Ready Consumed host memory

Consumed host CPU / Ready (%)

Time

Hardware Configuration

CPU 1vCPUs

Memory 1GB

Hard disk1 20 GB

USB controller USB 2.0

Network adapter1 VM Network (Connected)

Video card 16 MB

CD/DVD drive1 ISO [datastore1] ISO/ubuntu-22.04.4-live-server-amd64.iso Select disc image

Others Additional Hardware

Resource Consumption

Consumed host CPU 0 MHz

Consumed host memory 333 MB

Active guest memory 768 MB

Storage

Provisioned 20 GB

Uncommitted 446 B

Not-shared 21.08 GB

Used 21.08 GB

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Shutdown Guest	Linux1	root		02/28/2024 19:04:00	Completed successfully	02/28/2024 19:04:01
Power On VM	Linux1	root		02/28/2024 19:04:11	Completed successfully	02/28/2024 19:04:12



esxi1.localdomain - VMware ESXi X +

Not secure | https://192.168.199.128/ui/#/host/vms/1

vm ESXi Host Client

Navigator Host Virtual Machines Linux1

Console Monitor Power on Shut down Suspend Restart Edit Refresh Actions

Linux1

Guest OS: Ubuntu Linux (64-bit)
Compatibility: ESXi 7.0 U2 virtual machine
VMware Tools: Yes
CPUs: 1
Memory: 1 GB

General Information Networking VMware Tools Storage Notes

VMware Tools is not managed by vSphere

Performance summary last hour

Host CPU / Ready (%)

Consumed host CPU Ready Consumed host memory...

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Shutdown Guest	Linux1	root		02/28/2024 19:04:00	Completed successfully	02/28/2024 19:04:01
Power On VM	Linux1	root		02/28/2024 19:04:11	Completed successfully	02/28/2024 19:04:12

Actions

- Linux
- Power
- Guest OS
- Snapshots
- Console
- Autostart
- Upgrade VM Compatibility
- Export
- Export With Images

vCPUs: 1 GB, 20 GB, USB 2.0, VM Network (Connected), 16 MB, ISO [datastore1] ISO/ubuntu-22.04.4-live-server-amd64.iso, Select disc image

Additional Hardware

- Edit settings
- Permissions
- Edit notes
- Rename
- Answer question
- Unregister
- Delete
- Help
- Open VM in new window
- Reserve consumed host CPU
- Consumed host CPU: 0 MHz
- Consumed host memory: 333 MB
- Active guest memory: 768 MB



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms/1

vm ESXi Host Client

Linux1

Guest OS: Ubuntu Linux (64-bit)
Compatibility: ESXi 7.0 U2/virtual machine

Edit settings - Linux1 (ESXi 7.0 U2 virtual machine)

Virtual Hardware VM Options

Add hard disk Add network adapter Add other device

> CPU 1

> Memory 1 GB

> Hard disk 1 20 GB

> SCSI Controller 0 VMware Paravirtual

> SATA Controller 0

> USB controller 1 USB 2.0

> Network Adapter 1 VM Network Connect

> CD/DVD Drive 1 Datastore ISO file Connect

> Video Card Default settings

CANCEL SAVE

Host CPU / Ready (%) Performance summary last hour

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Shutdown Guest	Linux1	root	02/26/2024 19:04:00	02/26/2024 19:04:00	Completed successfully	02/26/2024 19:04:01
Power On VM	Linux1	root	02/26/2024 19:04:11	02/26/2024 19:04:11	Completed successfully	02/26/2024 19:04:12



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms/1

vm ESXi Host Client

Host Monitor Virtual Machines Linux1

Console Monitor Power on Shut down Suspend Restart Edit Refresh Actions

Linux1

Guest OS: Ubuntu Linux (64-bit)
Compatibility: ESXi 7.0 U2 virtual machine
VMware Tools: Yes
CPUs: 1
Memory: 1 GB

General Information: Networking, VMware Tools, Storage, Notes

VMware Tools is not managed by vSphere

1 disk

Edit notes

Performance summary last hour

Consumed host CPU / Ready (%)

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Shutdown Guest	Linux1	root		02/28/2024 19:04:00	Completed successfully	02/28/2024 19:04:01
Power On VM	Linux1	root		02/28/2024 19:04:11	Completed successfully	02/28/2024 19:04:12

Hardware Configuration: CPU (1 vCPUs), Memory (1 GB), Hard disk1 (20 GB), USB controller (USB 2.0), Network adapter1 (VM Network (Connected)), Video card (16 MB), CD/DVD drive1 (ISO [datastore1] ISO/ubuntu-22.04.4-live-server-amd64.iso), Others (Additional Hardware)

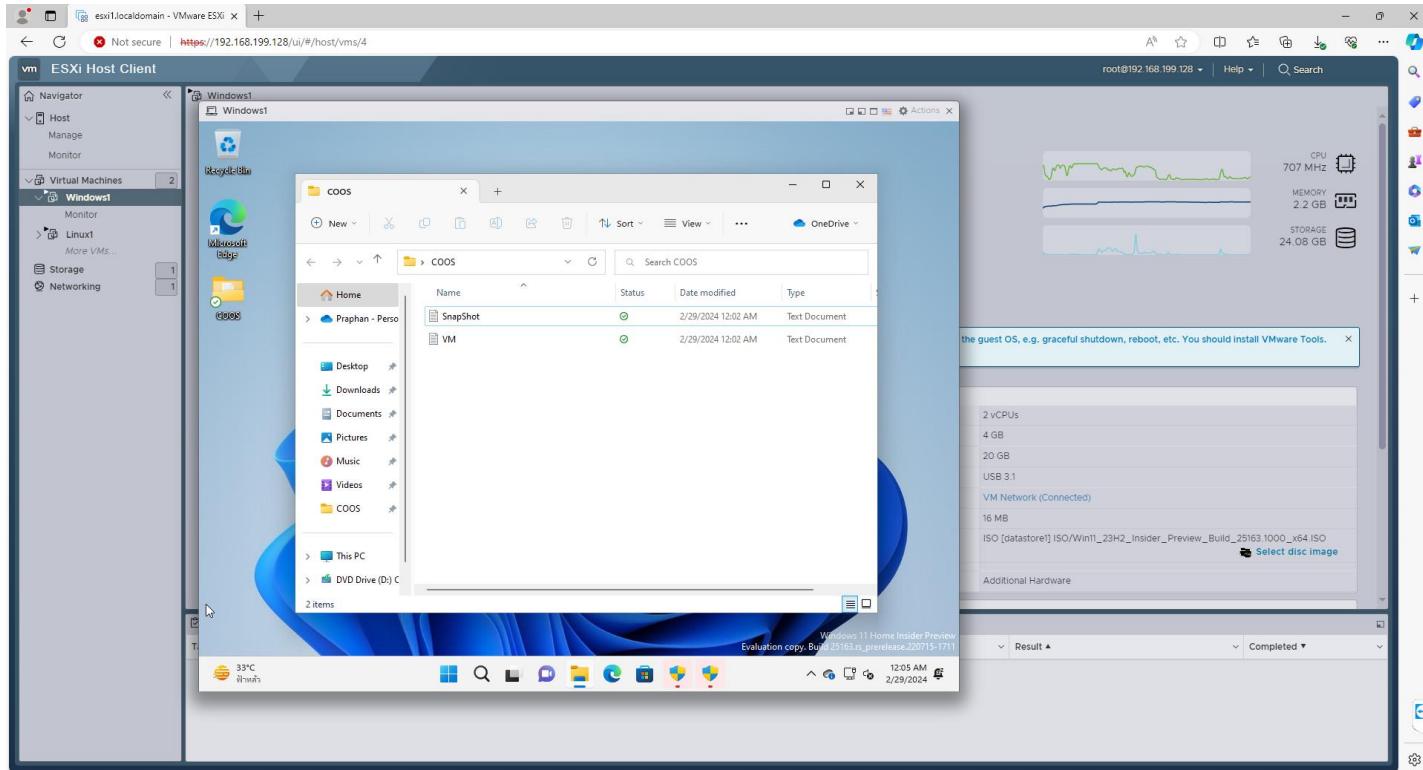
Resource Consumption: Consumed host CPU (0 MHz), Consumed host memory (333 MB), Active guest memory (768 MB)

Icons: Navigator, Host, Monitor, Virtual Machines, Linux1, Console, Monitor, Power on, Shut down, Suspend, Restart, Edit, Refresh, Actions, General Information, Networking, VMware Tools, Storage, Notes, Performance summary last hour, Recent tasks, Task, Target, Initiator, Queued, Started, Result, Completed, Hardware Configuration, CPU, Memory, Hard disk1, USB controller, Network adapter1, Video card, CD/DVD drive1, Others, Resource Consumption, Consumed host CPU, Consumed host memory, Active guest memory.



VM Snapshot

- A snapshot preserves the state and data of a virtual machine at a specific point in time.
 - The state includes the virtual machine's power state (for example, powered-on, powered-off, suspended).
 - The data includes all of the files that make up the virtual machine. This includes disks, memory, and other devices, such as virtual network interface cards.





esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms/4

vm ESXi Host Client

Navigator

Host Manage Monitor

Virtual Machines

- Windows*
- Power
- Guest OS
- Snapshots
- Console

Autostart

Upgrade VM Compatibility

Export

Export With Images

Edit settings

Permissions

Edit notes

Rename

Answer question

Unregister

Delete

Help

Open VM in new window

Windows1

Console Monitor Power on Power off Suspend Reset Edit Refresh Actions

root@192.168.199.128 Help Search

Windows1

Guest OS Microsoft Windows 10 (64-bit) VB8 not enabled

Compatibility ESXi 7.0 U2 virtual machine

VMware Tools No

CPU 2

Memory 4 GB

CPU 184 MHz

MEMORY 2.16 GB

STORAGE 24.08 GB

Tools is not installed in this virtual machine. VMware Tools allows detailed guest information to be displayed as well as allowing you to perform operations on the guest OS, e.g. graceful shutdown, reboot, etc. You can install VMware Tools.

Actions

Information

VMware Tools is not installed.

Tools

1 disk

Edit notes

Hardware Configuration

- CPU 2 vCPUs
- Memory 4 GB
- Hard disk 1 20 GB
- USB controller USB 3.1
- Network adapter 1 VM Network (Connected)
- Video card 16 MB
- CD/DVD drive 1 ISO [datastore] ISO/Win1_23H2_Insider_Preview_Build_251631000_x64.ISO

Resource summary last hour

Consumed host CPU Ready

Consumed host memory

Target Initiator Queued Started Result Completed



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms/4

vm ESXi Host Client

Navigator

Host

Virtual Machines

Windows1

Windows1

Guest OS: Microsoft Windows 10 (64-bit) VBS not enabled

Compatibility: ESXi 7.0 U2 virtual machine

VMware Tools: No

CPU: 2

Memory: 4 GB

Actions

Console Monitor Power on Power off Suspend Reset Edit Refresh Actions

Take snapshot for Windows1

Name: Snapshots-29022024

Description: This day I created a folder called COOS.

Snapshot the virtual machine's memory.

Quiesce guest file system (needs VMware tools installed).

CANCEL TAKE SNAPSHOT

General Information

Networking

VMware Tools

Storage

Notes

Performance summary last hour

Recent tasks

Task Target Initiator Queued Started Result Completed

Consumed host CPU Ready CD/DVD drive 1 ISO [datastore] ISO [Win11_23H2_Insider_Preview_Build_25163.1000_x64 ISO]

Consumed host memory

184 MHz

2.16 GB

24.08 GB

2 vCPUs

4 GB

20 GB

USB 3.1

VM Network (Connected)

16 MB



esxi1.localdomain - VMware ESXi X +

Not secure | https://192.168.199.128/ui/#/host/vms/4

vm ESXi Host Client

Snapshot 'Snapshots-29022024' successfully created on virtual machine Windows1 dismiss

Host Manage Monitor

Virtual Machines Windows1

Windows1

Guest OS Microsoft Windows 10 (64-bit) VBScript not enabled

Compatibility ESXi 7.0 U2 virtual machine

VMware Tools No

CPU 2

Memory 4 GB

CPU 184 MHz

MEMORY 2.16 GB

STORAGE 24.08 GB

VMware Tools is not installed in this virtual machine. VMware Tools allows detailed guest information to be displayed as well as allowing you to perform operations on the guest OS, e.g. graceful shutdown, reboot, etc. You should install VMware Tools. Actions

General Information

Networking VMware Tools Storage Notes

VMware Tools is not installed. Actions

1 disk

Edit notes

Performance summary last hour

Consumed host CPU Ready

Consumed host memory

Hardware Configuration

CPU 2 vCPUs

Memory 4 GB

Hard disk 1 20 GB

USB controller USB 3.1

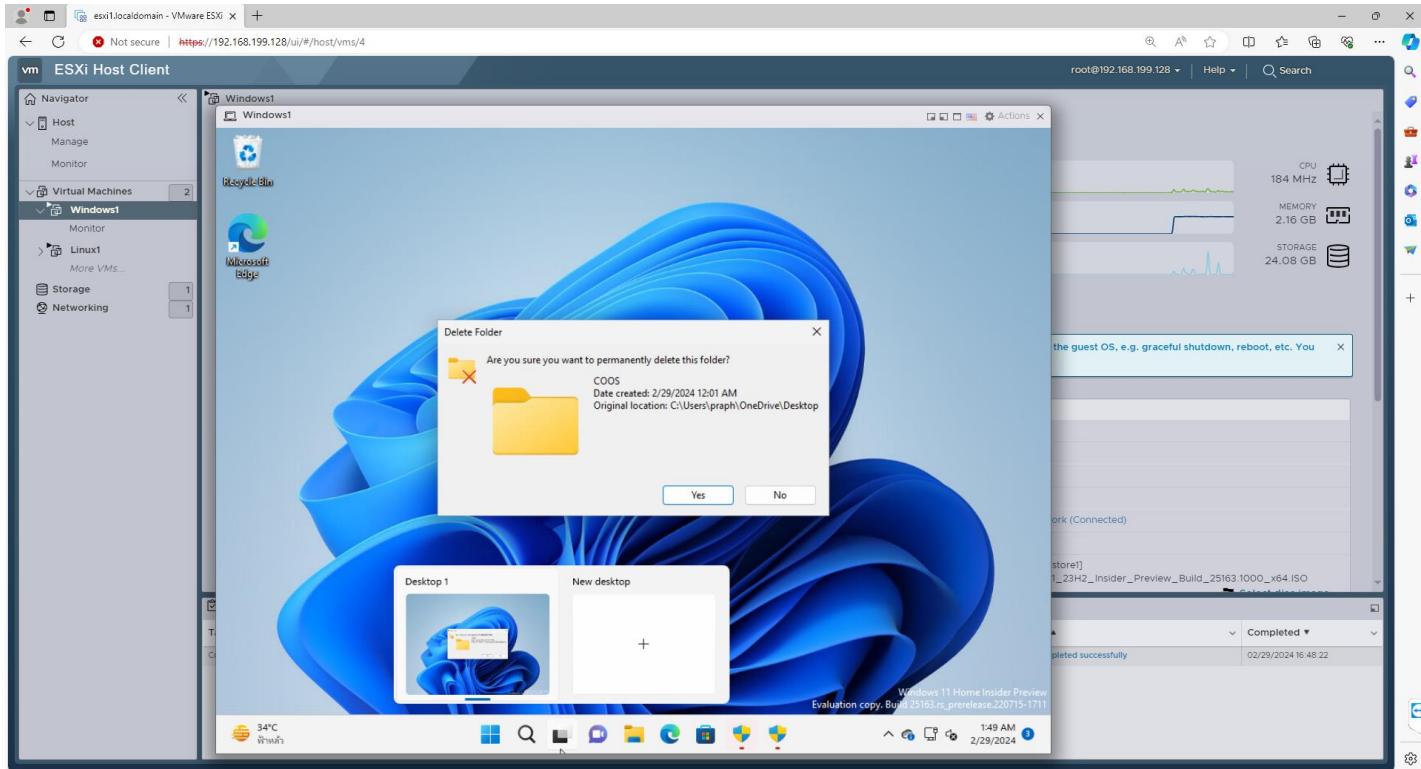
Network adapter 1 VM Network (Connected)

Video card 16 MB

CD/DVD drive 1 ISO [datastore] ISO/Win11_23H2_Insider_Preview_Build_25163.1000_x64.ISO

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Create Snapshot	Windows1	root		02/29/2024 16:48:22	02/29/2024 16:48:22	Completed successfully





esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms/4

vm ESXi Host Client

Navigator

Host

Virtual Machines

Windows1

Monitor

Power on

Power off

Suspend

Reset

Edit

Refresh

Actions

Windows1

Manage snapshots - Windows1

Take snapshot

Restore snapshot

Delete snapshot

Delete all

Edit snapshot

Refresh

Snapshots-29022024

You are here

Name: Snapshots-29022024

Description: This day I created a folder called COOS.

Created: Thursday, February 29, 2024, 16:48:22 +0700

CPU: 184 MHz

Memory: 2.16 GB

Storage: 24.08 GB

VMware should

General Info

Network

VMware

Storage

Notes

Recent tasks

Task

Create Snapshot

CLOSE

Completed

02/29/2024 16:48:22

37



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms/4

vm ESXi Host Client

Windows1

Guest OS: Microsoft Windows 10 (64-bit) VBS not enabled
Compatibility: ESXi 7.0 U2 virtual machine
VMware Tools: No
CPUs: 2
Memory: 4 GB

184 MHz CPU, 2.16 GB MEMORY, 24.08 GB STORAGE

VMware Tools is not installed in this virtual machine. You should install VMware Tools.

Restore latest snapshot

Current state of the virtual machine will be lost unless it is saved in a snapshot. Revert to latest (most recent) snapshot?

CANCEL RESTORE

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Create Snapshot	Windows1	root	02/29/2024 16:48:22	02/29/2024 16:48:22	Completed successfully	02/29/2024 16:48:22



esxi1.localdomain - VMware ESXi

Not secure | https://192.168.199.128/ui/#/host/vms/4

ESXi Host Client

Virtual machine Windows1 successfully restored to latest snapshot. [Dismiss](#)

Host
Manage
Monitor

Virtual Machines
Windows1
Monitor
Linux1
More VMs...
Storage
Networking

Windows1

Guest OS: Microsoft Windows 10 (64-bit) VBS not enabled
Compatibility: ESXi 7.0 U2 virtual machine
VMware Tools: No
CPUs: 2
Memory: 4 GB

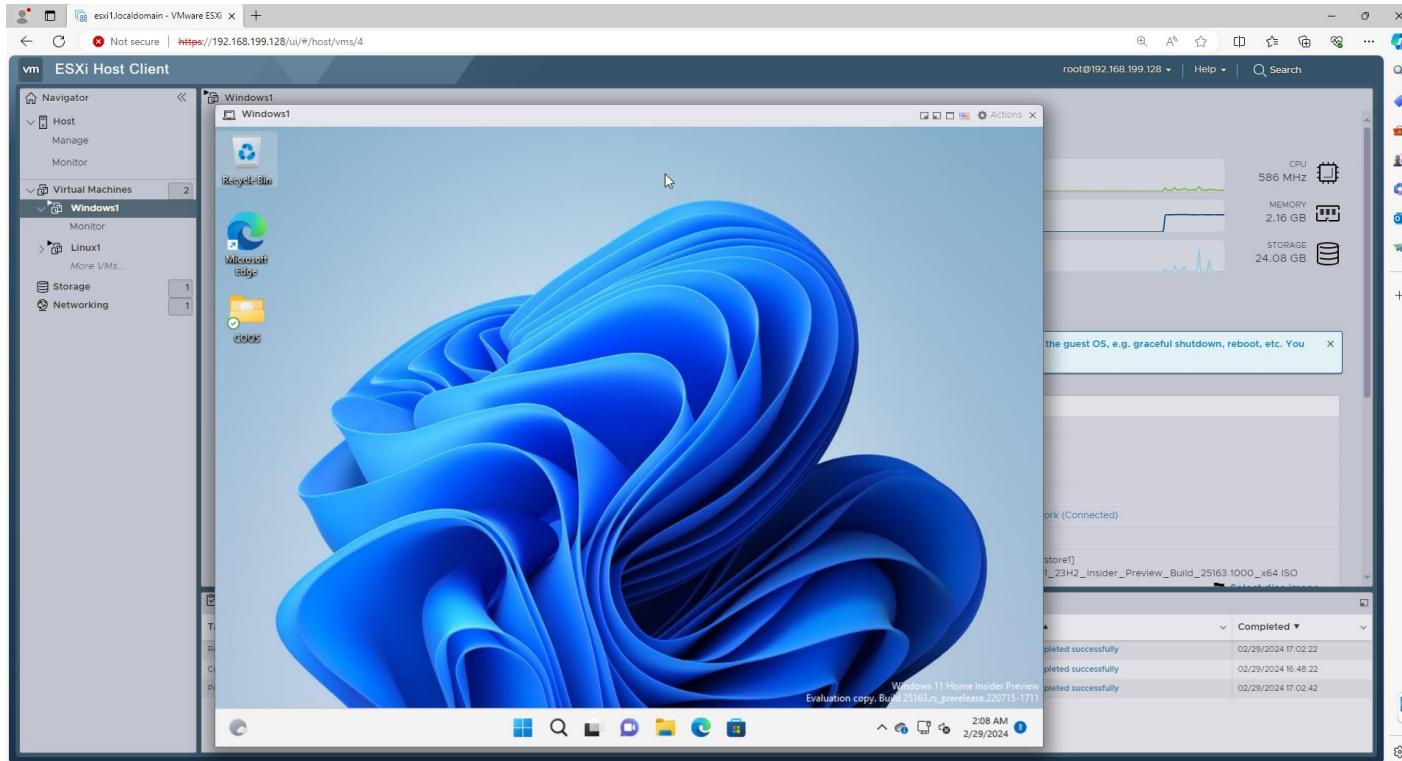
VMware Tools is not installed in this virtual machine. VMware Tools allows detailed guest information to be displayed as well as allowing you to perform operations on the guest OS, e.g. graceful shutdown, reboot, etc. You should install VMware Tools. [Actions](#)

General Information
Networking
VMware Tools
Storage
Notes
[Edit notes](#)

Hardware Configuration
CPU: 2 vCPUs
Memory: 4 GB
Hard disk 1: 20 GB
USB controller: USB 3.1
Network adapter 1: VM Network (Connected)
Video card: 16 MB
CD/DVD drive 1: ISO [datastore1]
ISO/Win11_23H2_Insider_Preview_Build_25163.1000_x64.ISO
[Select disc image](#)

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Create Snapshot	Windows1	root	02/29/2024 16:48:22	02/29/2024 16:48:22	Completed successfully	02/29/2024 16:48:22
Revert To Current Snapshot	Windows1	root	02/29/2024 17:02:21	02/29/2024 17:02:21	Completed successfully	02/29/2024 17:02:22





Exercise 2

1. Create a folder called **Exercise**.
2. Create three text files called **1.txt**, **2.txt**, and **3.txt** in the **Exercise** folder.
3. Take a snapshot named **Snapshot-Exercise**.
4. Delete the **Exercise** folder with the three files.
5. Restore the **Snapshot-Exercise** snapshot.

Q & A

