

④

Continuous Assessment I

Course Code: CAP 457

Course Name: Introduction to Big data
Laboratory.

Section: D2112

Name: Jayshri Lal pandit

Roll No. RD2112A03

Reg No. 12111670

- ①. Make a documentation about the steps of installation process of Cloudera in virtual machine.

Ans:- To install cloudera, first install virtual box and then get started with the cloudera Quickstart Vm.

Step 1:

Install virtual box then get started.

(a) Download virtual box. ~~Ensure~~

Ensure we download the correct version of virtual box for your operating system.

(b) Install virtual box.

Double click to execution file then follow the installation instruction.

(i) Double click .exe file and click run.

(ii) Click next accepting the suggested custom setup to install feature.

(iii) Click next accepting the suggested custom setup.

(iv) click yes

(v) click install.

(vi) wait to install to complete.

You may receive prompts to confirm the installation as it progresses. Click yes for each prompt to continue the installation.

(vii) Click finish when the installation is complete.

Step 2: Then Download Cloudera CDH vm for Virtual box.

(a) select the virtual machine client you are using from the drop down list.

(b) Click download now to begin downloading the installation zip archive file for cloudera quick start vm.

(c) Register and sign in or complete the product interest form.

Before you can download ~~this~~ the file you must complete this step. you are required to complete all fields before you can continue. cloudera may use your details to contact you.

Step ③ Extract files from the Cloudera quick start vm zip archive.

Ensure you have sufficient space to extract the archive if you encounter problems. Alternatively try using 7-zip which work well with large files.

Step ④ open the Cloudera Quick Start vm in virtual box.

① Launch virtual box.

② Click on file . import appliance and select the .vdi file from the location where you have saved the extract Cloudera quickstart vm files . Click next .

③ click import .

Step (5)

Start your Cloudera quick start vm instance.

(a) select cloudera - quick start - vm from the ~~file~~ left panel.

(b) click the start.

Step (6)

configure the RAM for virtual box.

Step (7)

Add the cloudera "cloudera-quickstart-vm-5.8.0.0" virtual box-disk 1 - that was previously download and extracted.

Step (8)

click on setting and give more cpu cores is you have and enables the bidirectional drag/drop

(9) minimize the browser and launch Cloudera express on the desktop. this requires at least 8GB RAM and at least 2 virtual cpus.

Step (10)

It will take some time to start as per this system configuration.



VirtualBox

Download VirtualBox

Here, you will find links to VirtualBox binaries and its source code.

VirtualBox binaries

By downloading, you agree to the terms and conditions of the respective license.

- **VirtualBox 5.1.10 platform packages.** The binaries are released under the terms of the GPL version 2.
 - [Windows hosts](#)
 - [OS X hosts](#)
 - [Linux distributions](#)
 - [Solaris hosts](#)
- **VirtualBox 5.1.10 Oracle VM VirtualBox Extension Pack** [All supported platforms](#)
Support for USB 2.0 and USB 3.0 devices, VirtualBox RDP, disk encryption, NVMe and PXE boot for Intel cards. See [here](#) for more details.
The Extension Pack binaries are released under the VirtualBox Personal Use and Evaluation License (PUEL).
Please install the extension pack with the same version as your installed version of VirtualBox:
If you are using VirtualBox 5.0.28, please download the extension pack [here](#).
- **VirtualBox 5.1.10 Software Developer Kit (SDK)** [All platforms](#)

See the changelog for what has changed.

About
Screenshots
Downloads
Documentation
 End-user docs
 Technical docs
Contribute
Community

[Downloads](#) [Training](#) [Support Portal](#) [Partners](#) [Developers](#) [Community](#)

[Search](#) [Sign In](#) [Language](#)

cloudera

[Why Cloudera](#) [Products](#) [Services & Support](#) [Solutions](#) [Get Started](#)

cloudera

[Why Cloudera](#) [Products](#) [Services & Support](#) [Solutions](#) [Get Started](#)

QuickStarts for CDH 5.8

Virtualized clusters for easy installation on your desktop!

Cloudera QuickStart for Docker (multi-node cluster) and Cloudera QuickStart VM (single-node cluster) make it easy to quickly get hands-on with CDH for testing, demo, and self-learning purposes, and include Cloudera Manager for managing your cluster. Cloudera QuickStart VM also includes a tutorial, sample data, and scripts for getting started.

Cloudera QuickStart is not intended or supported for use in production.

Get Started Now

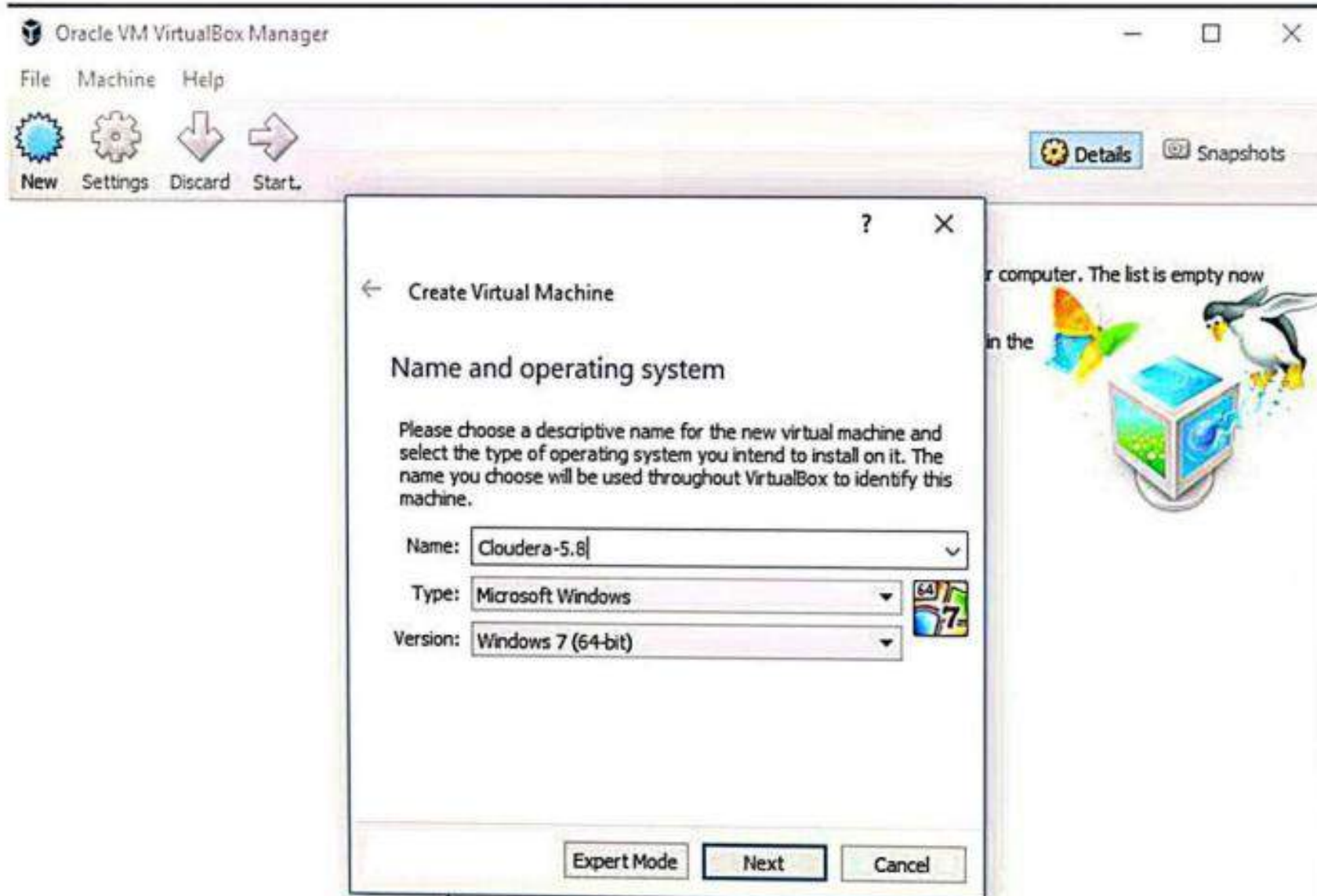
Version

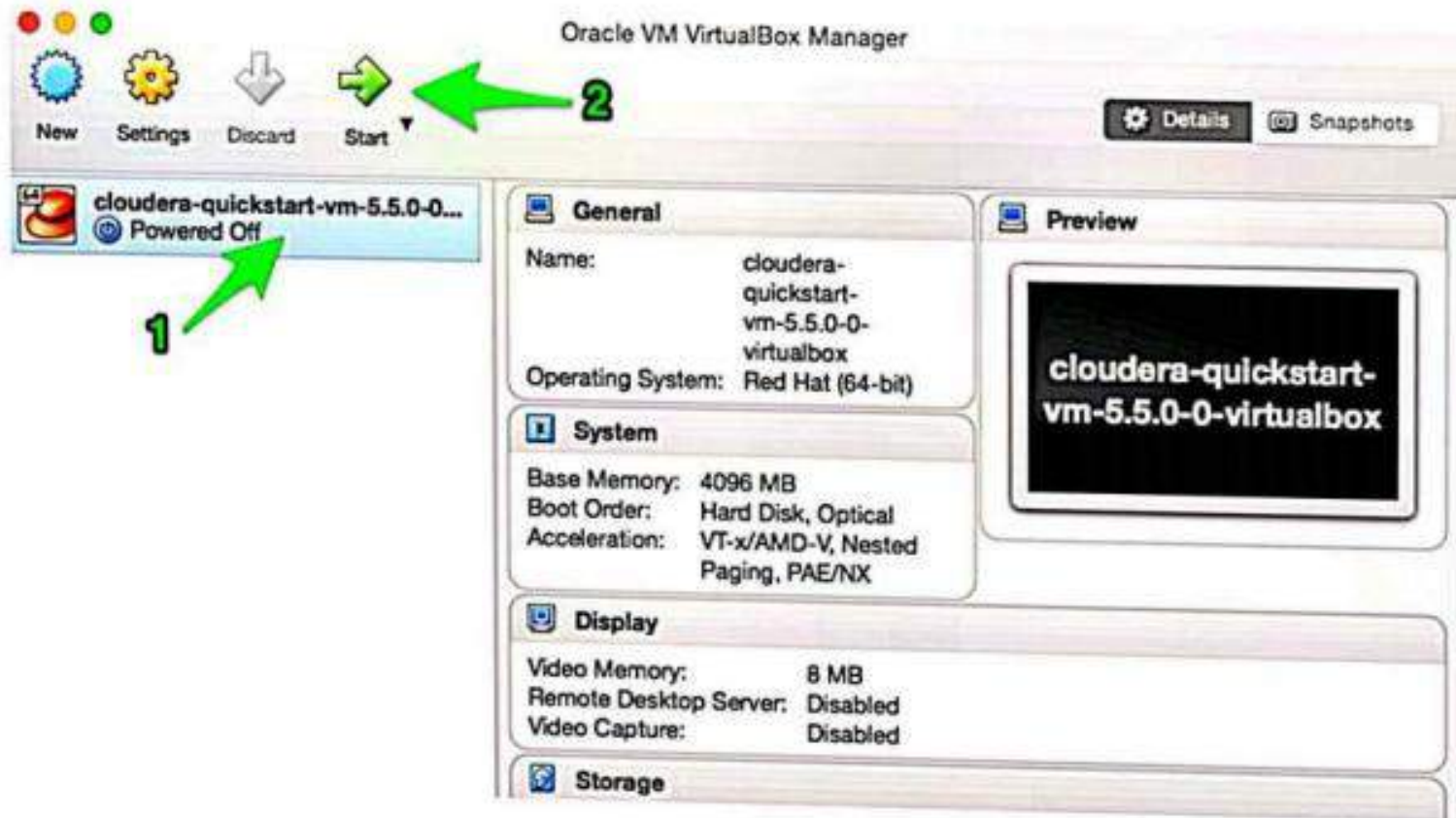
QuickStarts for CDH 5.8

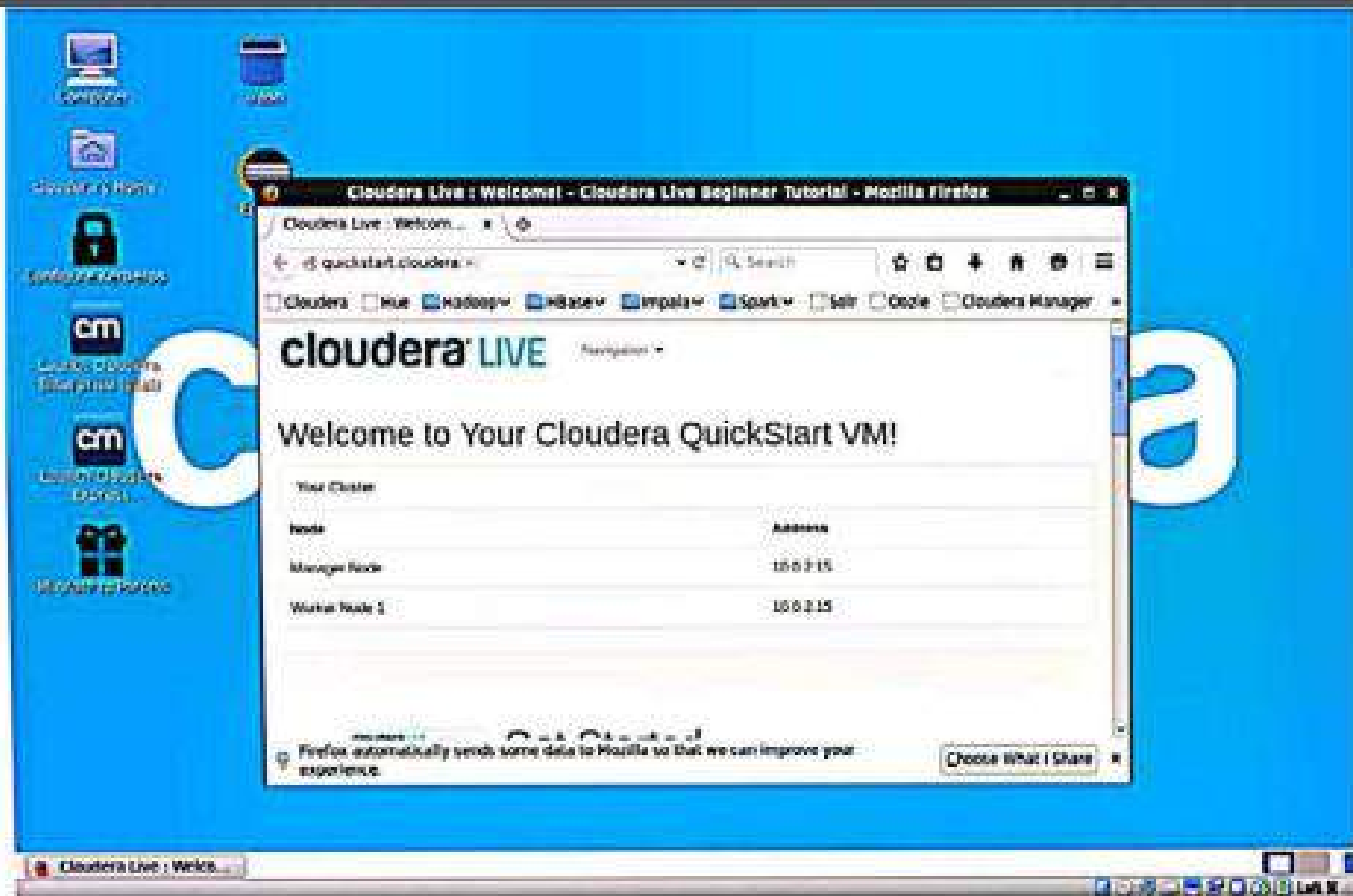
Platform

Virtual Box

GET IT NOW →







← Create Virtual Machine

← Create Virtual Machine

Memory size

Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.

The recommended memory size is **512 MB**.



Next



Cancel

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select one from the list or from another location using the folder icon.

If you need a more complex storage set-up you can skip this step and make the changes to the machine settings once the machine is created.

The recommended size of the hard disk is **25.00 GB**.

- ☐ Do not add a virtual hard disk
- ☐ Create a virtual hard disk now
- ☒ Use an existing virtual hard disk file

 doudera-quickstart-vm-5.8.0-0-virtualbox-disk1.vmdk (Normal, 64.00 GB) 

Create

Cancel

General

System

Display

Storage

Audio

Network

Serial Ports

USB

Shared Folders

User Interface

General

Basic

Advanced

Description

Encryption

Snapshot Folder: C:\Users\java-_000\VirtualBox VMs\Cloudera-5.8\Snapshots

Shared Clipboard: Bidirectional

Drag'n'Drop: Host To Guest

OK

Cancel



Computer



Migrate to Parcels



Launch Cloudera
Enterprise (trial)



cloudera's Home



Configure Kerberos



Eclipse



Trash



VBOXADDITIONS_5.
1.10_112026



Launch Cloudera
Express

CLIO

```
Terminal
File Edit View Search Terminal Help
Using config: /etc/zookeeper/conf/zoo.cfg
[QuickStart] Disabling CDH services on boot...
error reading information on service kafka-server: No such file or directory
[QuickStart] Starting Cloudera Manager server...
[QuickStart] Waiting for Cloudera Manager API...
[QuickStart] Starting Cloudera Manager agent...
[QuickStart] Configuring deployment...
Submitted jobs: 14
[QuickStart] Deploying client configuration...
Submitted jobs: 16
[QuickStart] Starting Cloudera Management Service...
Submitted jobs: 24
[QuickStart] Enabling Cloudera Manager daemons on boot...

Success! You can now log into Cloudera Manager from the QuickStart VM's browser:

    http://quickstart.cloudera:7180

    Username: cloudera
    Password: cloudera

Press [Enter] to exit...
```

②.

Explain how ~~can~~ we can share the files from host to virtual machine and vice-versa.

Ans:- To share files from host to guest and guest to host in virtual machine in VMware, you need to perform the following steps:-

Step ①

Select your virtual machine for which you want to share files. on VMware. Click edit virtual machine setting in the right pane to open the selecting option for the selected VM.

Step ②

On the virtual machine windows select the option tab and then select shared folders.

Step ③

At the folder sharing section in the right pane, you can select either of the following shared folder option. Always enable, select this option to keep folder sharing enable permanently, even ~~when~~ when the virtual machine is shutdown.

1. suspended or powered off.

• enable unit next power off or suspended:- enable folder sharing temporarily

Step ④ select the always enable radio button. if you want to map shared folder as a network device, select the map as a network device in windows guest check box and then click add.

Step ⑤ Needless to say but will have to say, on the welcome page, click next.

Step ⑥ on the Name and shared folder page, click browser, select the folder of your host machine that you want to share in this case H:\ virtual Data, and then click next.

Step ⑦ on the shared folders attributes page, ensure that the enable this share check box is selected and then click finish.

Step 8

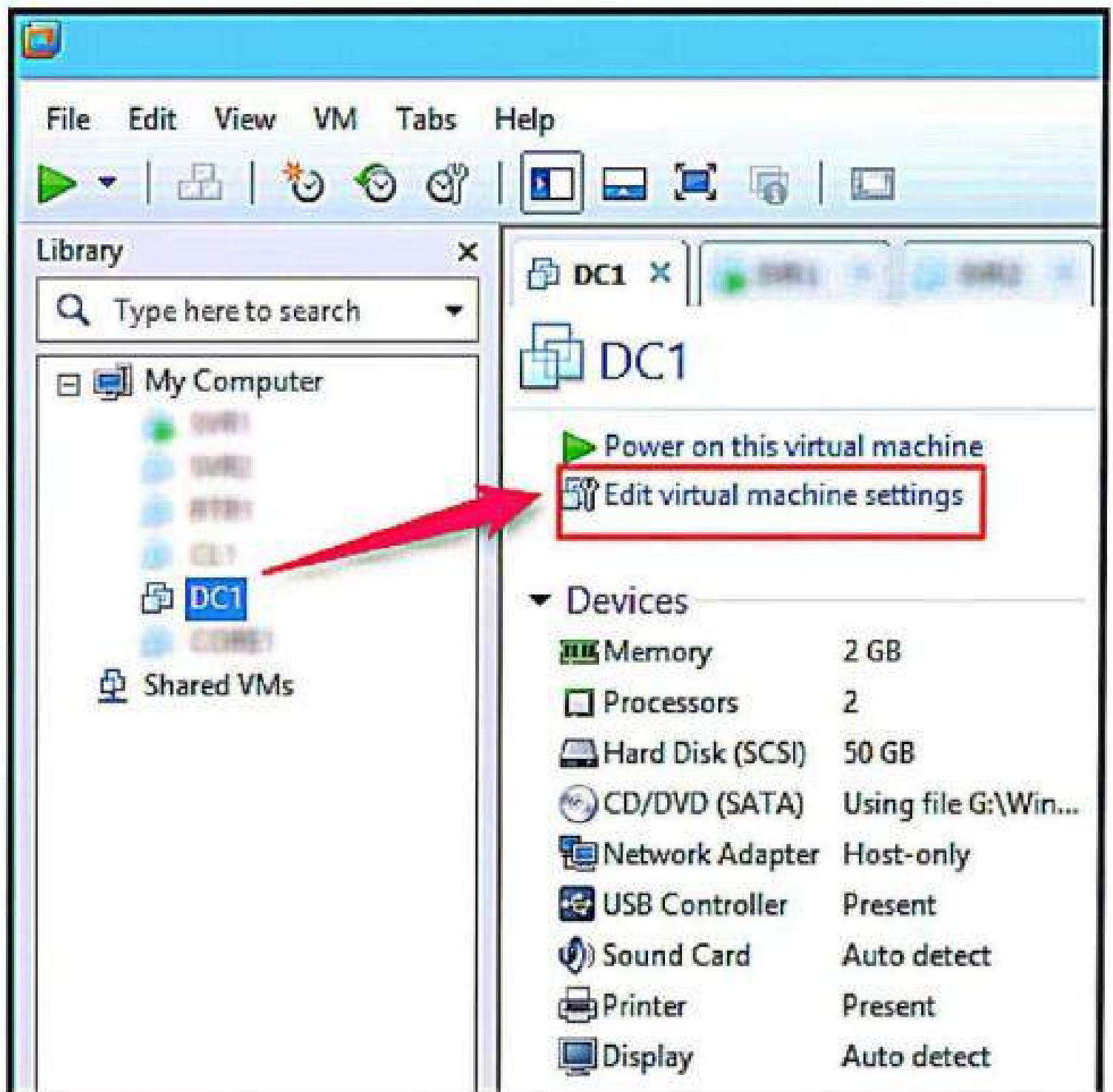
On the virtual machine settings window, verify that the shared folder is listed in the folder section, and then click OK.

Step 9 Sign into your virtual machine, open the file explorer window and verify that your shared folder displays as a network drive.

Alternately, you can also type `vmware host` in the run dialog box to access shared folder. Use the shared folder and files as you wish on the VMware virtual machine.

Step 10

If you no longer want to enable sharing between host and guest machine, you can disable it anytime. To disable the sharing, remove the shared folders check box on the virtual machine settings window.



Virtual Machine Settings

Virtual Machine Settings



Hardware Options

Settings

General	DC1
Power	
Shared Folders	Disabled
Snapshots	
AutoProtect	Disabled
Guest Isolation	
Access Control	Not encrypted
VMware Tools	Time sync off
VNC Connections	Disabled
Unity	
Appliance View	
Autologin	Not available
Advanced	Default/Default

Folder sharing



Shared folders expose your files to programs in the virtual machine. This may put your computer and your data at risk. Only enable shared folders if you trust the virtual machine with your data.

☐ Disabled

☒ Always enabled

☐ Enabled until next power off or suspend

☒ Map as a network drive in Windows guests

Folders

Name	Host Path

Add...

Remove

Properties

OK

Cancel

Help

protechgurus.com

Add Shared Folder Wizard



Name the Shared Folder

What would you like to call this shared folder?

Host path

H:\Virtual Data

Browse...

Name

Virtual Data

< Back

Next >

Cancel

Add Shared Folder Wizard



Specify Shared Folder Attributes

Specify the scope of this shared folder.

Additional attributes

☒ Enable this share

☐ Read-only

< Back

Finish

Cancel