# Test Data Management

Software Version 24.2.0

Docker Installation on Windows Virtual Machines

opentext

Document Release Date: April 2024 Software Release Date: April 2024

### Legal notices

Copyright 2023 - 2024 Open Text

The only warranties for products and services of Open Text and its affiliates and licensors ("Open Text") are as may be set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Open Text shall not be liable for technical or editorial errors or omissions contained herein. The information contained herein is subject to change without notice.

Except as specifically indicated otherwise, this document contains confidential information and a valid license is required for possession, use or copying. If this work is provided to the U.S. Government, consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

### **Documentation updates**

The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.
- Software Release Date, which indicates the release date of this version of the software.

### Support

Visit the MySupport portal to access contact information and details about the products, services, and support that OpenText offers.

This portal also provides customer self-solve capabilities. It gives you a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the MySupport portal to:

- · View information about all services that Support offers
- Submit and track service requests
- Contact customer support
- · Search for knowledge documents of interest
- · View software vulnerability alerts
- Enter into discussions with other software customers
- Download software patches
- Manage software licenses, downloads, and support contracts

Many areas of the portal require you to sign in. If you need an account, you can create one when prompted to sign in.

## Contents

Virtual Machine configuration	4
Hyper-V installation	5
Docker installation	12

# **Virtual Machine configuration**

1. Enable the VT (Virtual Technology) of the machine. Note that the configuration may vary for different types of virtual machines. The provided screenshots below specifically depict the configuration for VMWARE ESXi.

Intual Hardware VIN Options	
General Options	VM Name: DEMO-CM_Dev
VMware Remote Console Options	Lock the guest operating system when the last remote user disconnects
VMware Tools	Expand for VMware Tools settings
Power management	Expand for power management settings
Boot Options	Expand for boot options
Advanced	Expand for advanced settings
Fiber Channel NPIV	Expand for fiber channel NPIV
VBS	C Enable Virtualization Based Security (

The screenshot given below shows the configuration for the VMWARE Workstation.

	Virtu	ual Machine Settings		×
Hardware Options Device Memory	Summary 11.7 GB	Processors Number of processors:	1 v]	
Processors Hard Disk (SCSI) Hard Disk (NMMe) Hard Disk 2 (NMe) OCO/DVD (SATA) Network Adapter USB Controller Sound Card Printer Display	4 60 GB 60 GB Using file E:[Dataskope Test Custom (VMnet10) Present Auto detect Present Auto detect	Number of cores per processor: Total processor cores: Virtualization engine Virtualize Intel VT-x/EPT or AN Virtualize CPU performance co Virtualize IOMMU (IO memory)	4 V MD-V/RVI sunkers managemenk unit)	

2. Restart the machine.

# **Hyper-V** installation

For Docker to work properly, Hyper V must be installed priorly. To install Hyper VV, follow the steps below respectively.

- 1. Go to Server Manager > Dashboard.
- 2. Click Add roles and features.

Server Manager • Dashbo	ard
WELCOME TO SERVER I	MANAGER
	1 Configure this local server
QUICK START	2 Add roles and features
	3 Add other servers to manage
WHAT'S NEW	4 Create a server group
	5 Connect this server to cloud services

3. Follow the instructions within **Add Roles and Features Wizard** shown in the figures below. Click **Next**.



#### 4. Click Next.

Add Roles and Features Wiza	rd			( <b>_</b> )		×
Select installation	n type			DESTIN	IATION SEF AMFM.fas.	Iocal
Before You Begin	Select the installation type machine, or on an offline	e. You can install roles and fea virtual hard disk (VHD).	atures on a running	physical comput	ter or virt	ual
Server Selection	Role-based or feature Configure a single serve	e-based installation er by adding roles, role servic	ces, and features.			
	Remote Desktop Service     Install required role service	vices installation vices for Virtual Desktop Infr	astructure (VDI) to c	reate a virtual m	achine-b	ased
	UI SESSION-Dased deskt	op deployment.				
		Dentiture	Martin		Canc	al

5. Click Next.

elect destinatio	n server			DESTIN NETIQP	ATION SER	RVER local
Before You Begin Installation Type Server Selection	Select a server or a virtual Select a server from th Select a virtual hard di	hard disk on which e server pool sk	to install roles and features.			
Server Roles Features	Server Pool					
	Name NETIQPAMFM.fas.local	IP Address	Operating System Microsoft Windows Server 20	019 Standard	Evaluatio	on
	1 Computer(s) found					
	This page shows servers the and that have been added newly-added servers from	hat are running Win I by using the Add S which data collection	dows Server 2012 or a newer re ervers command in Server Man on is still incomplete are not sho	lease of Wind ager. Offline own.	lows Serv servers ar	/er, nd

6. Check Hyper V option from Roles field and then, click Next.



7. Click Add Features.

Docker Installation on Windows Virtual Machines Hyper-V installation



8. In Features, check the Containers and Windows Subsytem for Linux options.



9. Click Next.

Add Roles and Features Wiza	d	-		×
Hyper-V		DESTINA	TION SER	RVER local
Before You Begin Installation Type Server Roles Features Hyter V Virtual Switches Migration Default Stores Confirmation	Hyper-V allows you to virtualize your server workloads by nunning those workloads on virtual machines. You can use virtual machines to consolidate multiple server, to improve server availability, and to increase efficiency in developing and testing software. Things to note: • Before you install this role, you should identify which network connections on this server you want to use for setting up virtual switches. • After you install Hyper-V, you can use Hyper-V Manager to create and configure your virtual machines.	workloads on c	ne phys	ical
Results		N		
	More information about Hyper-V	L8		

#### 10. Click Next.

ld Roles and Features Wi	zard				-		×
eate Virtual S	Switches				DESTINA	ITION SER MFM.fas.lo	VER
ore You Begin Illation Type ver Selection	Virtual machines require virtual s One virtual switch will be created physical network. You can add, re	witches to communicate with other for each network adapter you selected smove, and modify your virtual swite	computers. After you install this role, yo ct. We recommend that you create at lea thes later by using the Virtual Switch Ma	u can create virtual machines and attach them t st one virtual switch now to provide virtual mac nager.	o a virtual switch hines with conne	i. ectivity to	a
ver Roles	Name	Description					÷
ires	Ethernet0	Intel(P) 92574L Ginabit Natu	ork Connection				1
-V	- ZeroTier One	intellity desirie digust Hern	N				
ual Switches	[174700426+2+202+1	ZeroTier Virtual Port	ed.				

11. Click Next.

Add Roles and Features Wize	ard	-		>
/irtual Machine	Migration	DESTINA NETIQRA	ATION SEI VMFM.fas	RVER
Before You Begin Installation Type Server Roles Peatures Hyper-V Virtual Switches Mgration Default Stores Confirmation Results	Hyper-V can be configured to send and receive live migrations of virtual machines on this server. Configuring Hyper-V new enables any available network on the live migrations. If you want to dedicate specific networks for live migration, use Hyper-V settings after you install the role.         Allow this server to send and receive live migrations of virtual machines         Authentication protocol         Select the protocol you want to use to authenticate live migrations.         Is Use Credential Security Support Provider (CredSSP)         This protocol is less secure than Kerberos, but does not require you to set up constrained delegation. To perform a live migration, you must be logged on         Is Use thereos         This protocol is more secure but requires you to set up constrained delegation. To perform a live migration you must be logged on         Image: the protocol you want to use to authenticate live migration now. Instead, you will configure the server for live migration, including specifying networks, we cluster.	to the source	e server	for aly.
	< Previous Next >	Install	Cano	cel

#### 12. Click Next.

La Add Roles and Features Wizard	-		×
Default Stores	DES NET/	INATION SEF	RVER
Before You Begin Installation Type Server Selection Server Roles Features Hyper-V Virtual Switches Migration Default Stores Confirmation Results	Hyper-V uses default locations to store virtual hard disk files and virtual machine configuration files, unless you specify different locations when you create the files. You of default location for virtual hard disk files:          CluBers/Public/Documents/Hyper-V/Virtual Hard Disks         Default location for virtual machine configuration files:         C/UBers/Public/Documents/Hyper-V/Virtual Hard Disks         Default location for virtual machine configuration files:         C/UProgram/Data/Microsoft/Windows/Hyper-V	in change	vse
	< Previous Nex > Install	Cano	cel

#### 13. Click Install.

Add Roles and Features Wiza	d	-		×
Confirm installat	ion selections	DESTIN	IATION SER AMFM.fas.l	VER ocal
Before You Begin Installation Type Server Selection Server Roles Features Hyper-V Virtual Switches Migration Default Stores Confirmation Results	To install the following roles, role services, or features on selected server, click Install.  Restart the destination server automatically if required Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install the Previous to clear their check boxes.  Containers Hyper-V Remote Server Administration Tools Hyper-V Module for Windows PowerShell Hyper-V GUI Management Tools Windows Subsystem for Linux:	ese optiona	features,	click
	Export configuration settings Specify an alternate source path			
	< Previous Next >	Install	Cance	el

14. In Results, click **Close** and the machine will be restarted.

Add Roles and Features Wizard		-		×
Installation progre	rss	DESTINAT	TION SERV //FM.fas.lo	'ER cal
Before You Begin Installation Type Server Roles Features Hyper-V Virtual Switches Migration Default Stores Confirmation Results	View Installation progress  Feature installation  A restart is pending on NETIQPAMFM.fas.local. You must restart the destination server to finish the installation.  Containers Hyper-V Remote Server Administration Tools Role Administration Tools Hyper-V Module for Windows PowerShell Hyper-V Gui Management Tools Windows Subsystem for Linux	-		
	Þ			
	You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, a Export configuration settings	nd then Task [	Details.	

### **Docker installation**

It is suggested to install Docker 4.20.0. It can be downloaded from the link.

For the higher version of Docker installation uncheck the Use WSL 2 instead of Hyper V (recommended) option during the installation step where the WSL features are set. The relevant screenshot is given below.



Open the PowerShell and run commands given below consequently.

- d ism.exe /online /enable feature /featurename:Microsoft Windows Subsystem Linux /all /norestart
- dism.exe /online /enable feature /featurename:VirtualMachinePlatform /all /norestart

Open an administrator command prompt and run the command given below:

• b cdedit /set hypervisorlaunchtype auto

Restart the machine.