# Dante Domain Manager

## **Hyper-V Installation Instructions**

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## 1. Installation Instructions for Hyper-V

### 1.1. Overview

Dante Domain Manger (DDM) is packaged as an ISO file, which includes a streamlined Linux distribution which has been preconfigured for the DDM application.

To install DDM you can create a bootable USB drive (for installing DDM on a bare-metal machine) or import the ISO directly into a virtualization platform. This guide will walk through importing the ISO file and creating a virtual machine in Hyper-V.

### 1.2. System Requirements for Hypervisors

The system requirements for the machine on which DDM is installed vary according to the number of Dante devices DDM is required to support:

No. of Devices	<100	100 - 200	>200
CPUs	2		3
RAM (GB)	4	8	16
Hard Disk (GB)	20		30
Architecture	Intel x8	6 64-bit	

The physical host machine on which a hypervisor is installed must also meet the above specifications (with additional capacity for any other applications).

For information about system requirements for HA (High Availability) installations, see the 'Installing DDM' section of the user guide.

<u>Important Note</u>: Audinate recommends installing DDM software on server grade hardware. Installing DDM onto personal computer hardware running an OS (Windows, MacOS, Linux) is not suitable for a production environments or permanent installations.

## 1.3. Enabling Hyper-V in Windows Server

- 1. In the Server Manager Window click Manage then Add Roles and Features.
- 2. On the Installation Type page of the Add Roles and Features Wizard, select **Role-based or featurebased installation** then click Next.

- 3. On the Server Selection page select the server you wish to add Hyper-V to.
- 4. On the Server Roles page select **Hyper-V**. In the window that pop-ups click **Add Features** then click **Next**.
- 5. On the Features page don't make any changes and click **Next**.
- 6. On the Confirmation page click Install.
- 7. On the Results page wait for the Installation to complete and then click **Close**.

## 1.4. Enabling Hyper-V in Windows

### Not recommended for production environments or permanent install.

If Hyper-V is not already enabled on your Windows machine, the following steps explain how to enable Hyper-V. If you already have Hyper-V enabled or are installing on a Hyper-V server, skip to the next section.

### **Hyper-V Requirements**

- Windows 10 or 11 Enterprise, Pro, or Education
- 64-bit Processor with Second Level Address Translation (SLAT)
- CPU support for VM Monitor Mode Extension (VT-x on Intel CPUs)
- Minimum 4 GB memory

Note: Hyper-V cannot be installed on Windows 10 or 11 Home and you will need more than 4GB memory total to successfully run DDM on a Windows machine.

### For Windows 10:

- 1. Right click on the Windows button and select 'Apps and Features'.
- 2. Select Programs and Features on the right under related settings.
- 3. Select Turn Windows Features on or off.
- 4. Select Hyper-V and click OK.
- 5. When the installation has completed you will be prompted to restart your computer.



Steps 3 and 4, Turn Windows Features on or off and Select Hyper-V

### For Windows 11:

- 1. Click the Start button and search for Windows Features.
- 2. Select 'Turn Windows features on or off'.
- 3. In the Windows Features dialog, check the box for Hyper-V.
- 4. Click **OK** to begin installation.

When the installation completes, you will be prompted to restart your computer.

### 1.5. Creating a DDM Virtual Machine in Hyper-V

- 1. Launch Hyper-V Manager (not Hyper-V Quick Create).
- 2. In Hyper-V Manager click Connect to Server... from the right column.
- 3. In the window that pops up select **Local computer** (*if you are installing DDM on the local machine*). Then click **OK**.

File       Action         Wei       Wei         Hyper-V Manager       Image: Hyper-V Manager provides the tools and infomation you can use to manage a vitualization server.         Image: Hyper-V Manager       Image: Hyper-V Manager         Image: Hyper-V Mana	Hyper-V Manager		- 🗆 ×
Hyper-V Manager          Hyper-V Manager         Image: Hyper-V Manager provides the tools and information you can use to manage a virtualization server.         Image: Hyper-V Manager         Image: Hyper-V Manager         Avitualization server         Avitualization server         Avitualization server         Avitualization server         Avitualization server         You         Select Computer         You         Connect to situalization server         Image: Ormed to virtualization server         Ptyper-V Manager         Connect to situalization server         You         Connect to virtualization server         Ptyper-V Manager to create, configure, and manage the virtual machines on a         You         Connect to virtualization server         Ptyper-V Monager to create, configure, and manage the virtual machines on a         You         Connect to virtualization server         Ptyper-V Monager to create, configure, and manage the virtual machines on a         You         Connect to virtualization server         Ptyper-V Monager to create, configure, and manage the virtual machines on a         Volume         Connect to virtualization server         Ptyper-V Monager to create the virtualin achines     <	File Action View Help		
	File Action View Help	Wyper-V Manager provides the tools and information you can use to manage a virtualization server.       Hyper-V Manager         Introduction       Connect to Server         A virtualization server is a physical computer that provides the resources required to run virtual machines. Tou can use Hyper-V       The hyper-V Manager         Manager to create, configure, and manage the virtual machines on a       Help         Virtualization server:       View         View       Help         Virtualization server:       Connect to virtualization server:         Virtualization server:       Orneet to virtualization server:         Provide Local computer:       Browse         Connect as another user: onone>       Set User         OK       Cancel	• •

4. Select New then Virtual Machine... from the right hand column.

Ballion VM-							~	
Hyper-V Manager							^	
File Action View Help								
Hyper-V Manager	Virtual Machines					Actions		
DESKTOP-0108/8E	Name	Ctate	CRITICARE	Assigned Memory	Untime	DESKTOP-01U878E	•	
	Ivanie	State	CFO Usage	Assigned Memory	optime	🖳 Quick Create		
		No virtual machin	es were found on	this server.		New New	•	Virtual Machine
						强 Import Virtual Machine		Hard Disk
						Hyper-V Settings		Floppy Disk
						🚰 Virtual Switch Manager		
						🔒 Virtual SAN Manager		
						na Edit Disk		
						Inspect Disk		
						Stop Service		
						× Remove Server		
	<					🖏 Refresh		B
	Checkpoints					View	•	
	Details					Z Help		
	Details							
		No	item selected.					
	<				>	]		
Displays the New Virtual Machine Wiz	ard.							

5. The New Virtual Machine Wizard window will open. On the first page give your virtual machine a **Name** and click **Next**.

Before You Begin	Choose a name and location for this virtual machine.
Specify Name and Location	The name is displayed in Hyper-V Manager. We recommend that you use a name that helps you eas
pecify Generation	identify this virtual machine, such as the name of the guest operating system or workload.
Assign Memory -	Name: DDM
configure Networking	You can create a folder or use an existing folder to store the virtual machine. If you don't select a folder, the virtual machine is stored in the default folder configured for this server.
Installation Options	Store the virtual machine in a different location
Summary	Location: C:\ProgramData\Microsoft\Windows\Hyper-V\ Browse.
	If you plan to take checkpoints of this virtual machine, select a location that has enough free space. Checkpoints include virtual machine data and may require a large amount of space.

6. On the second page specify **Generation 1** and click **Next**.

🖳 New Virtual Machine Wizar	rd X
Specify Gene	eration
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	<ul> <li>Choose the generation of this virtual machine.</li> <li>④ Generation 1         This virtual machine generation supports 32-bit and 64-bit guest operating systems and provides virtual hardware which has been available in all previous versions of Hyper-V.         Generation 2             This virtual machine generation provides support for newer virtualization features, has UEFI-based firmware, and requires a supported 64-bit guest operating system.         More a virtual machine has been created, you cannot change its generation.     </li> </ul>
	< Previous Next > Finish Cancel

7. On the third page assign the appropriate memory based on the DDM edition and number of devices. (see "1.2 System Requirements for Hypervisors" Minimum: 4096 MB)

Static memory is recommended. Uncheck the 'Use dynamic memory for this virtual machine'.

New Virtual Machine Wiza	rd	×
💻 Assign Mem	ory	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Specify the amount of memory to allocate to this virtual machine. You can specify an amount from 32 MB through 251658240 MB. To improve performance, specify more than the minimum amount recommended for the operating system.         Startup memory:       4096       MB         Use Dynamic Memory for this virtual machine.       Image: the virtual machine and the operating system that it will run.	
	< Previous Next > Finish Cancel	

Click Next.

8. On the fourth page select **Default Switch** from the drop-down menu then click **Next**. (Note: If you connect to your Dante network or the Internet with a non-built-in network adapter you may need to add that interface in the **Virtual Switch Manager** then edit your DDM virtual machine **Settings** to add the new Virtual Switch.)

🖳 New Virtual Machine Wizar	d	×
🐸 Configure Ne	etworking	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Each new virtual machine includes a network adapter. You can configure the network adapter to virtual switch, or it can remain disconnected.	o use a
	< Previous Next > Finish Ca	ncel

9. On the fifth page select Create a virtual hard disk and specify Size, then click Next. (Minimum: 20 GB).

🖳 New Virtual Machine Wiz	ard	×
💹 Connect Vir	tual Hard Disk	
Before You Begin Specify Name and Location Specify Generation Assign Memory	A virtual machine requires storage so that you can install an operating system. You can specify the storage now or configure it later by modifying the virtual machine's properties.	
Configure Networking	Name: DDM.vhdx	
Connect Virtual Hard Disk Installation Options Summary	Location: C: Users'Public/Documents/Hyper-V/Virtual Hard Disks\ Browse Size: 20 GB (Maximum: 64 TB)	
	Use an existing virtual hard disk Use this option to attach an existing virtual hard disk, either VHD or VHDX format.	
	Location: C:\Users\Public\Documents\Hyper-V\Virtual Hard Disks\ Browse	
	<ul> <li>Attach a virtual hard disk later</li> <li>Use this option to skip this step now and attach an existing virtual hard disk later.</li> </ul>	
	< Previous Next > Finish Cancel	

10. On the sixth page select **Install an operating system from a bootable CD/DVD-ROM** then select **Image File (iso)**, **Browse...** to locate your DDM ISO image then click **Next**.

🖳 New Virtual Machine Wiza	rd	×
🦉 Installation	Options	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking	You can install an operating system now if you have access to the setup media, or you can install it later. O Install an operating system later (i) Install an operating system from a bootable CD/DVD-ROM Media	
Connect Virtual Hard Disk Installation Options	Physical CD/DVD drive:     Image file (,iso):     C(\Users\Dante\Downloads\ddm-x-y-x-x.iso     Browse     Browse	
Summary	Install an operating system from a bootable floppy disk Media Virtual floppy disk (.vfd):      Install an operating system from a network-based installation server	
	< Previous Next > Finish Cancel	

- 11. Review your setup on the Summary page then click **Finish**.
- 12. With your DDM Virtual Machine selected in the Virtual Machines list click **Settings...** in the right-hand column.

Hyper-V Manager Virtual Machi	nes				Actions	
Name	State	CPU Usage	Assigned Memory	Uptime	DESKTOP-01U878E	
DDM	Off	_			Quick Create	
					New	
					Import Virtual Machine	
					Hyper-V Settings	
					Virtual Switch Manager	
					🔒 Virtual SAN Manager	
					🚄 Edit Disk	
					🔄 Inspect Disk	
					Stop Service	
					× Remove Server	
٤					🛛 🔁 Refresh	
Checkpoints					View	
DDM					- Help	
					DDM	
	Created:	5/17/2019 10:35:3	3 AM Clustered: N	0	- Connect	
	Configuration Version	n: 9.0			Connect	
	Generation:	l Nono			Settings	
	Notes.	None			Start	
					Checkpoint	
					Move	

13. In the Settings window click **Processor** in the left-hand column and specify **Number of virtual processors** based on the DDM edition and number of devices. (Minimum: 2) Click **Apply** then **OK** to close the Settings window.



14. Now click **Connect...** to launch the Virtual Machine console and click **Start** in the console window that pops up to start the installation process.



- Not DDM on DESKTOP-01U878E Virtual Machine Connection

   File
   Action
   Media
   Clipboard
   View
   Help

   Image: Status: Running
   Image: Status: Runn
- 15. On the DDM Installation screen make sure Install Dante Domain Manager is highlighted and hit enter.

- 16. Let the installation process run until you see the message: **Installation Complete**. Rather than pressing return to quit (*as suggested on screen*) click the **Shut Down** button so you don't end up in an install loop.
- 17. Go the Virtual Machine's **Settings** window again and this time click on **DVD Drive** and change the selection to **None**, click Apply then **OK**.

DM	$\sim$	⊴ ▶   O			
Hardware	^	DVD Drive			
📑 Add Hardware					
BIOS		Select the controller and loc	ation on the cont	roller to attach the CD	/DVD drive.
Boot from CD		Controller:		Location:	
Security Key Storage Drive disabled		IDE Controller 1	~	0 (in use)	~
Memory		Media			
4096 MB		Specify the media to use	with your virtual	CD/DVD drive.	
Processor		None			
2 Virtual processors		O Image file:			
IDE Controller 0					
🗉 🚃 Hard Drive		C: \Users\Dante\Dov	vnloads\ddm-1.1.(	0.16.iso	
DDM-testing.vhdx					Browse
DVD Drive					
None		O Physical CD/DVD driv	e:		
SCSI Controller		$\sim$			
Network Adapter					
Default Switch		To remove the virtual CD/D	VD drive from this	virtual machine, dick	Remove.
COM 1					Remove
None					
COM 2					
Diskette Drive					
None					
Management					
I Name					
DDM					
Integration Services					
Some services offered					
Standard					
Smart Paging File Location					
	15-				

- 18. Click **Start** to boot up the virtual machine.
- 19. Once booted up the start-up script displays a dialog showing the Dante interface and the IP address for the VM, plus an administration menu. Make any changes needed in the administration menu, open up a

web browser and navigate to the IP address, then follow the steps to complete DDM setup and licensing.

More information on the Administration Menu options and licensing process is available in the DDM user guide.