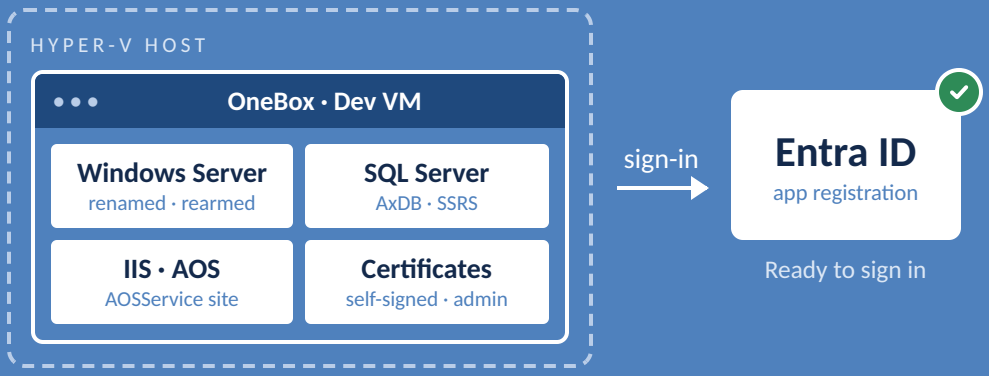


DEVELOPER GUIDE

BUILD A LOCAL ONEBOX VM

for D365 F&O on a Hyper-V Server
from the LCS VHD to first sign-in

Hyper-V | LCS | Entra ID | SQL Server

Sohaib Azhar

Step-by-step procedure

- The downloadable VHD is licensed for development, testing and demonstration only. Never use it for production.

Dynamics 365 Finance & Operations

Version 1.0
September 2026
VHD 10.0.24

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1 Before you begin

This guide builds a Dynamics 365 Finance & Operations development VM, a **OneBox**, on a Windows Server that runs Hyper-V. You download Microsoft's ready-made VHD from LCS, turn it into a Hyper-V virtual machine, prepare Windows, SQL Server and Reporting Services, and connect sign-in to your Microsoft Entra tenant. At the end you can open D365 and sign in as the provisioned administrator.

Development and test only. The downloadable VHD is licensed for development, testing and demonstration. Don't use it for production.

Example values. The screenshots use VHD **10.0.24**, a VM named `DevRVM` on the host `HPV5`, and folders under `D:\Virtuals`. Use your own version, names and paths.

Once the VM is running, you can remove the Contoso demo companies with the companion guide: *Remove Demo Legal Entities from a D365 F&O Local OneBox*.

Procedure overview

§	Action
2	Connect to the Hyper-V server over RDP
3	Download the VHD parts from LCS
4	Build the VHD from its parts
5	Create the virtual hard disk
6	Create the virtual machine
7	Adjust VM settings before the first start
8	Start the VM and sign in
9	Rename the machine
10	Change the Administrator password
11	Rearm the Windows evaluation licence
12	Configure the network adapter
13	Rename the SQL Server instance
14	Check the Reporting Server configuration
15	Install extra tools
16	Register the app in Microsoft Entra ID
17	Generate self-signed certificates
18	Provision the administrator
19	Disable two services

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Required access

Access	Used for
RDP and local administrator on the Hyper-V server	Creating the disk and the VM
LCS account with the Shared asset library	Downloading the VHD parts
A Microsoft Entra account that can register apps	The app registration used for D365 sign-in
About 210 GB of free disk space	RAR parts (~28 GB), extracted VHD (~90 GB) and the VM's own copy (~90 GB)

Recommended VM settings

Setting	Value used in this guide
Generation	Generation 1
Memory	24 GB (`24576` MB), Dynamic Memory off
Processors	6 virtual processors
Disk	VHD, fixed size, copied from the extracted VHD
Network	An existing virtual switch (`NATswitch` in this guide)
Checkpoints	Disabled

2 Connect to the Hyper-V server over RDP

Every step in this guide runs on the Hyper-V server, so start by opening a Remote Desktop session to it.

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1. On your own computer, press **Windows**, type **RDP** and open **Remote Desktop Connection**.

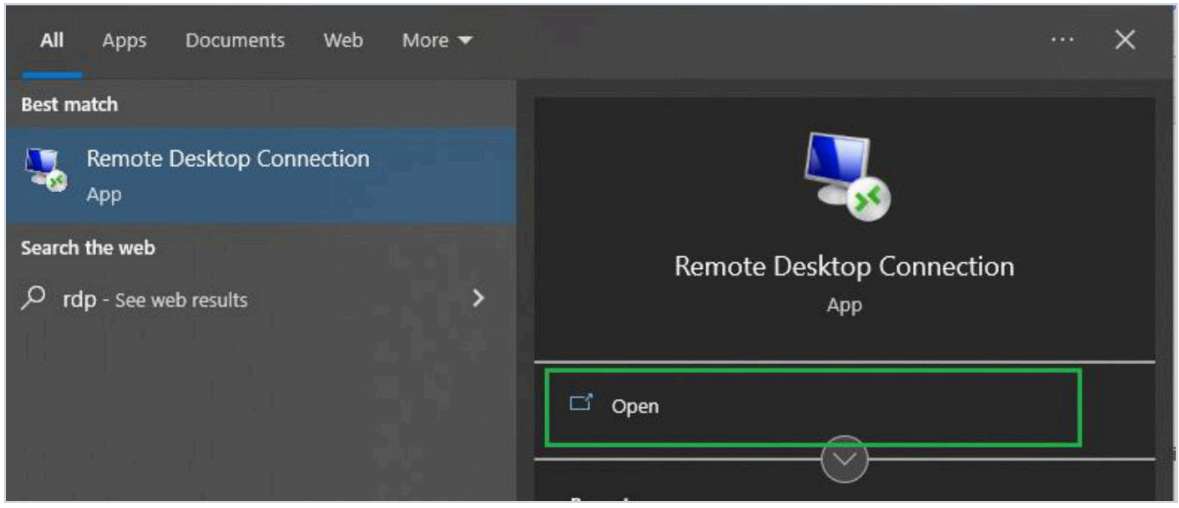


Figure 1. Search for RDP and open Remote Desktop Connection.

2. In **Computer**, enter the server's external IP address or host name, then select **Connect**.

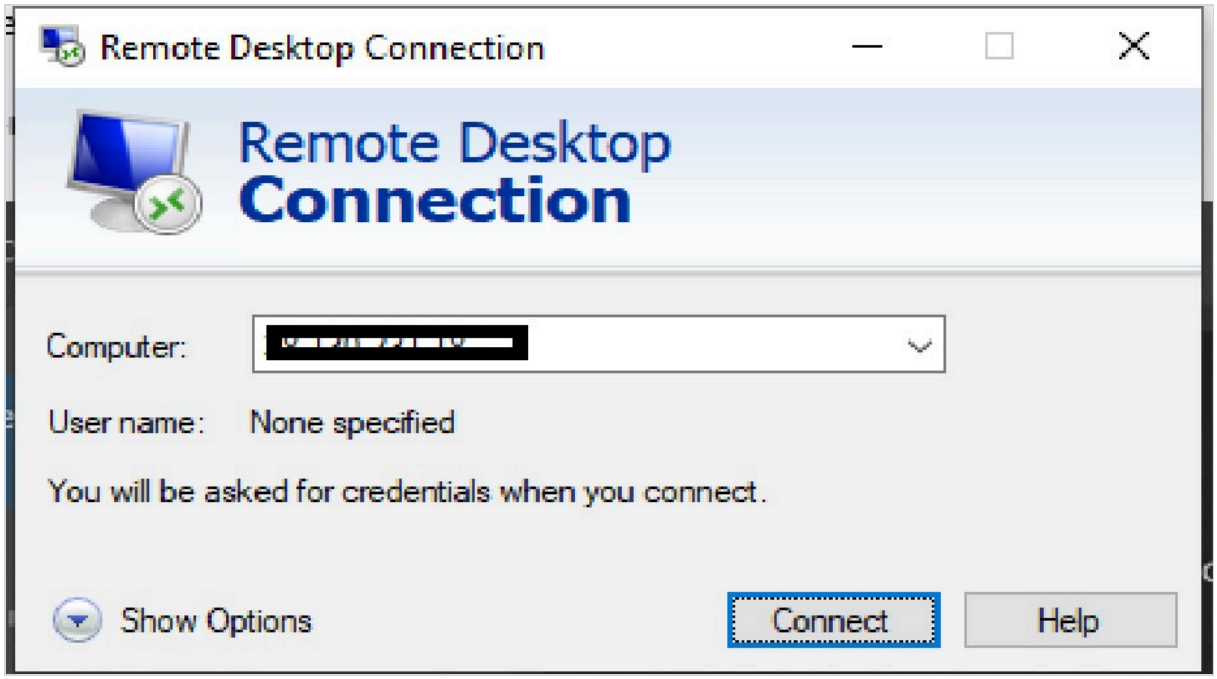


Figure 2. Enter the server address (hidden here) and connect.

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3. Enter the server's user name and password, then select **OK**. You now have remote access to the server.

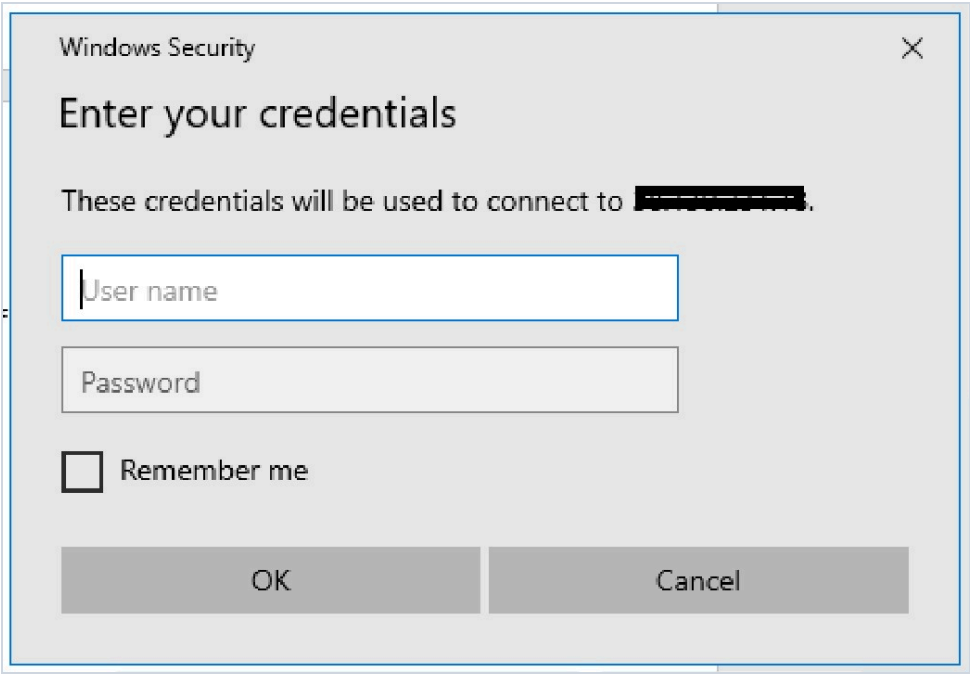


Figure 3. Sign in with the server's credentials.

3 Download the VHD parts from LCS

1. Open https://lcs.dynamics.com/v2 and sign in.

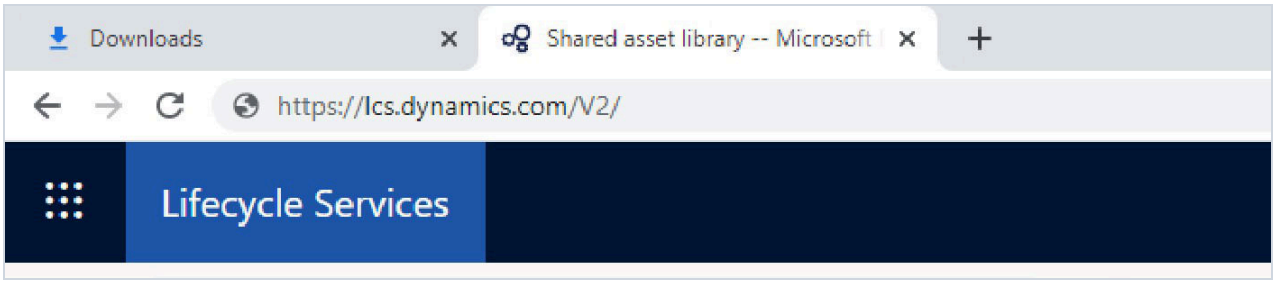


Figure 4. Lifecycle Services (LCS).

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2 Open the **Shared asset library** tile.

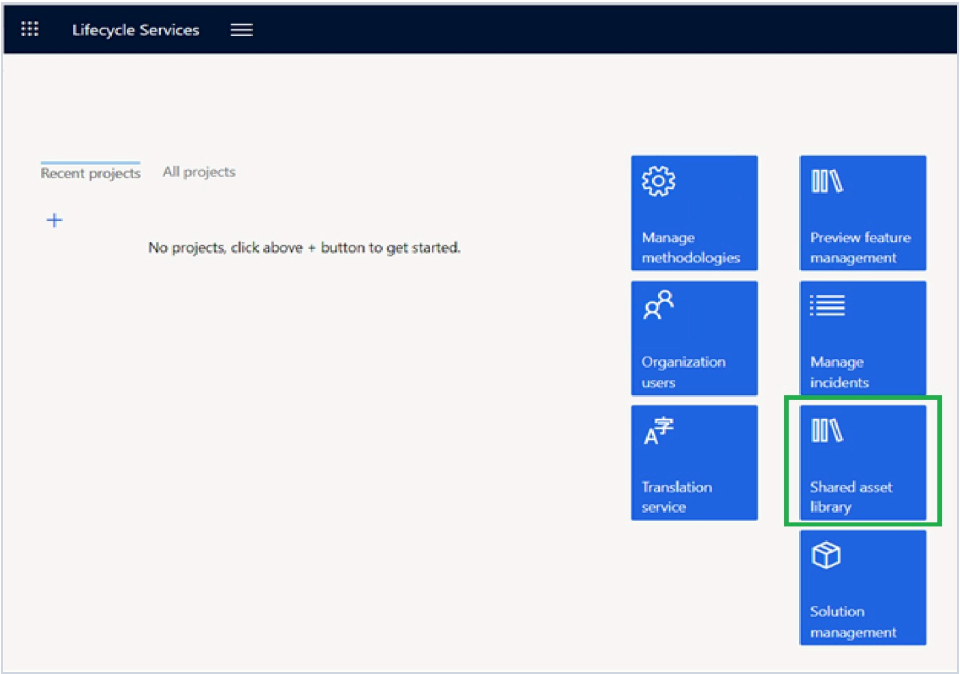


Figure 5. The Shared asset library tile on the LCS home page.

3 Under **Select asset type**, choose **Downloadable VHD**. Download **every part** of the version you need by selecting each file name (`part01` to `part09` for 10.0.24).

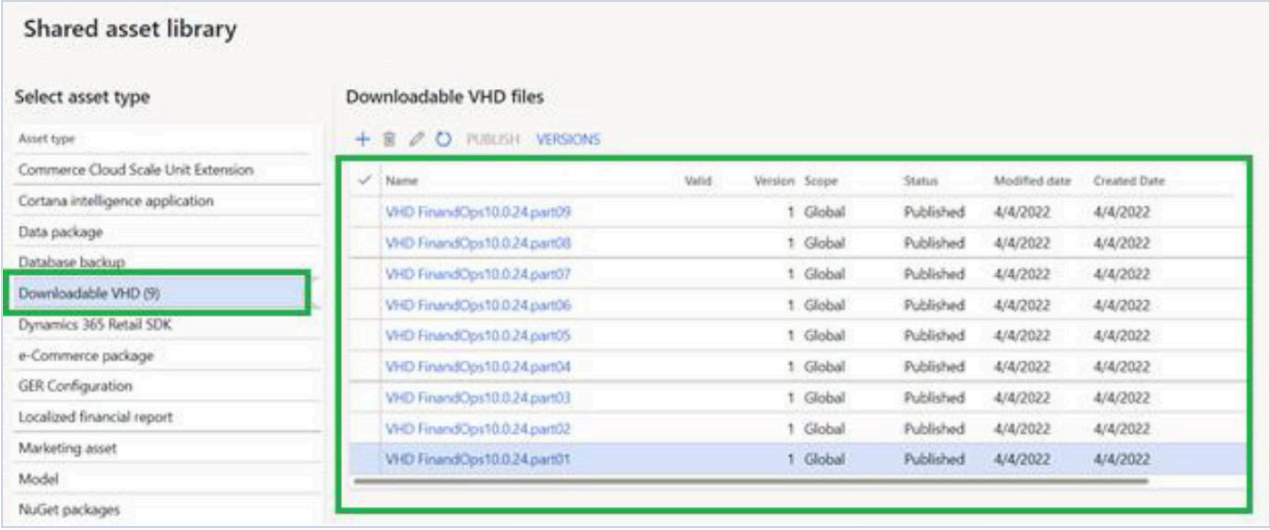


Figure 6. Downloadable VHD: all parts of the same version (highlighted).

> **Keep all parts together**
>
> Save every part in the same folder. `part01` is the extractor (an `.exe`) and the other parts are `.rar` archives it reads. A missing or partly downloaded part makes the extraction fail.

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4 Build the VHD from its parts

1. Open the folder where the parts were downloaded and run `FinandOps10.0.24.part01`, the file of type **Application**.

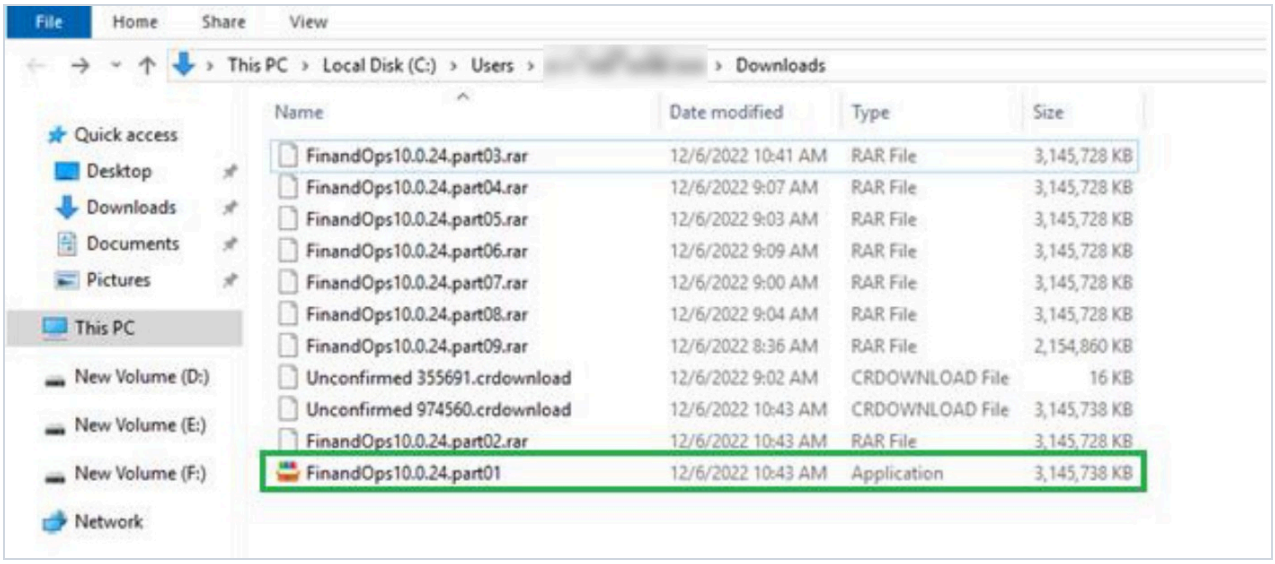


Figure 7. Run part01, the Application file (highlighted).

2. Read the Microsoft software licence terms and select **Accept**.

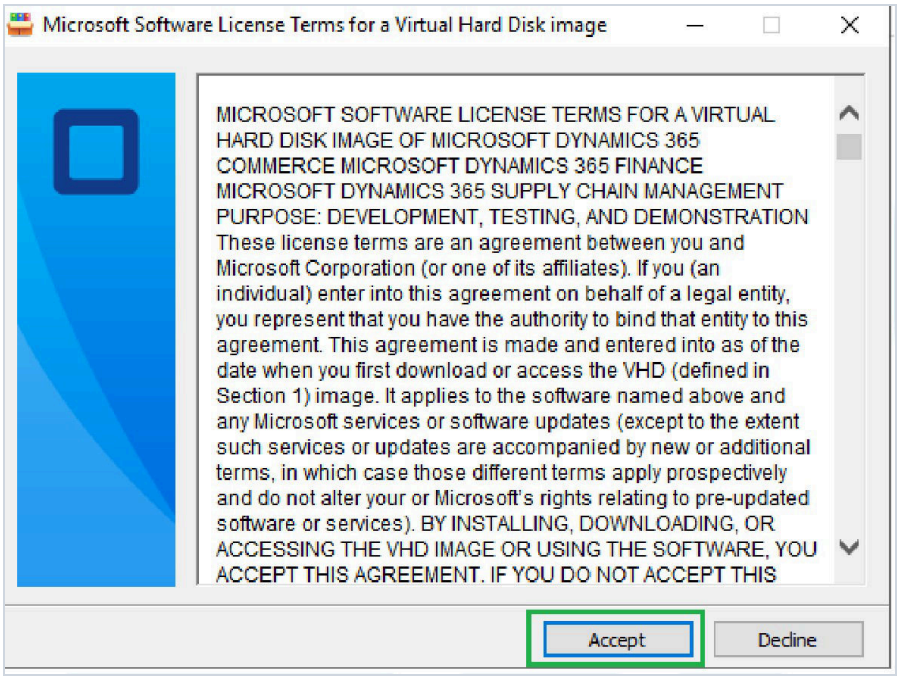


Figure 8. Accept the licence terms.

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3. Choose a **Destination folder** for the VHD and select **Extract**. Extracting straight onto the drive that will hold your VMs saves a copy later.

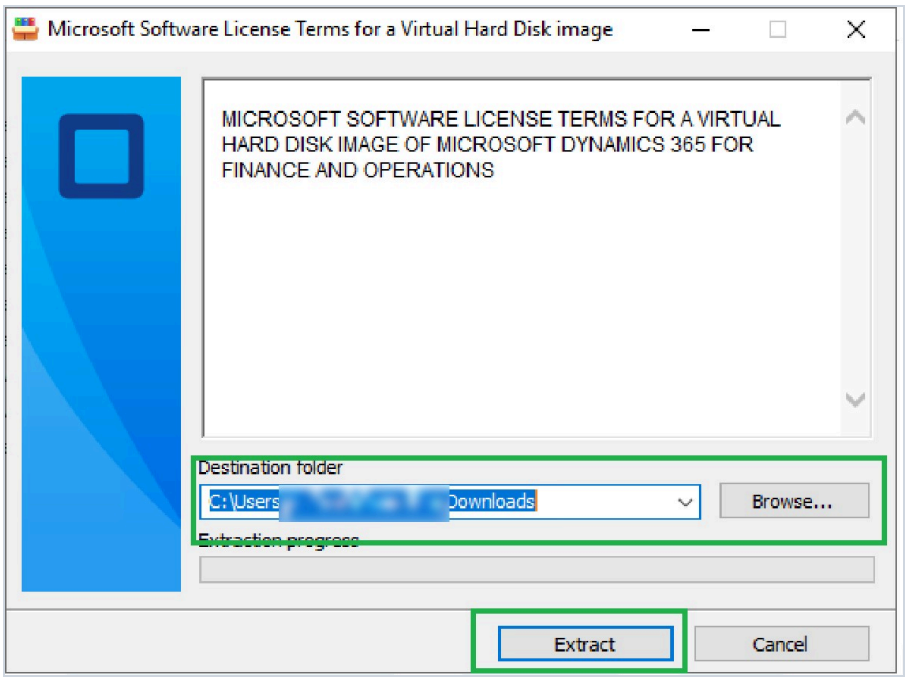


Figure 9. Choose the destination folder and extract.

4. Wait for the extraction to complete. The folder then contains `FinandOps10.0.24.vhd`, about 90 GB.

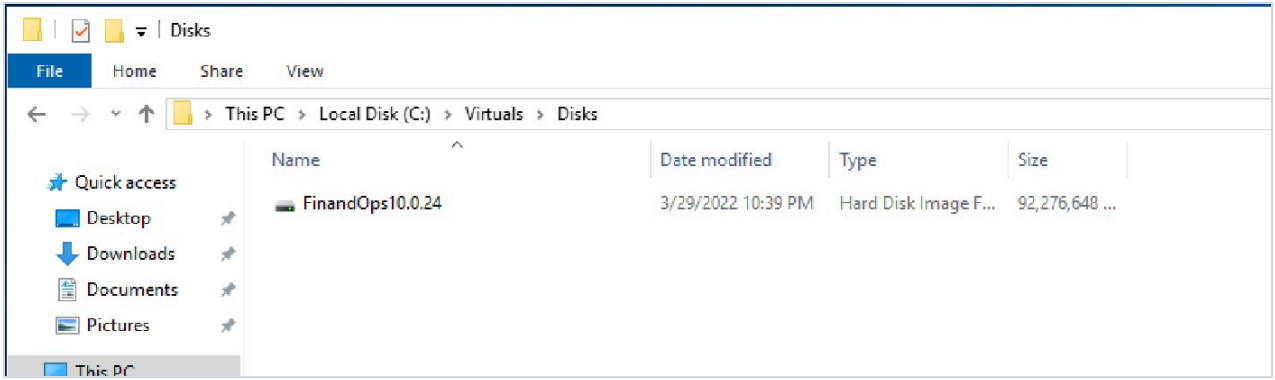


Figure 10. The extracted VHD file.

5 Create the virtual hard disk

Create a new fixed-size disk that copies the contents of the extracted VHD. The VM runs on the copy, so the extracted file stays untouched and can be reused for the next VM.

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1 In **Hyper-V Manager**, right-click the server name and select **New → Hard Disk…**

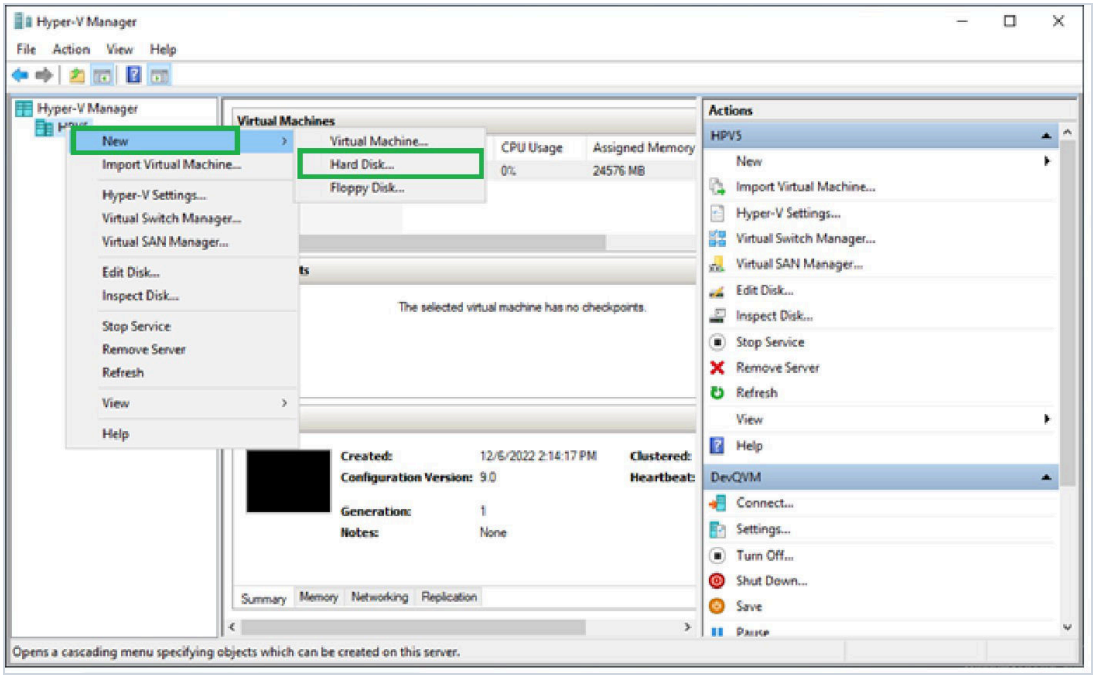


Figure 11. Hyper-V Manager: New → Hard Disk.

2 On **Before You Begin**, select **Next**.

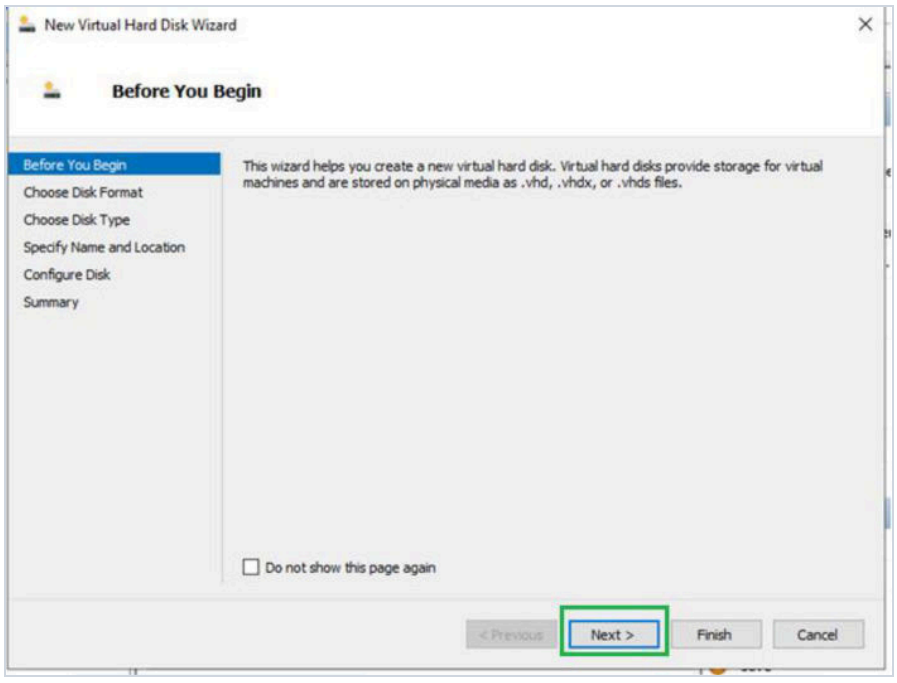


Figure 12. Before You Begin.

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3 For **Disk Format**, select **VHD**, then **Next**.

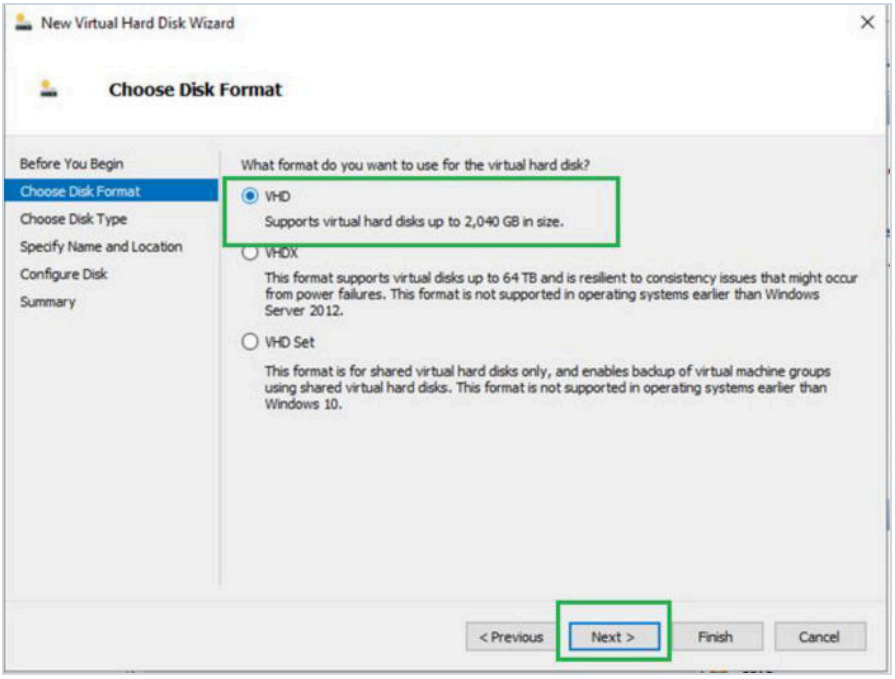


Figure 13. Disk format: VHD.

4 For **Disk Type**, select **Fixed size**, then **Next**.

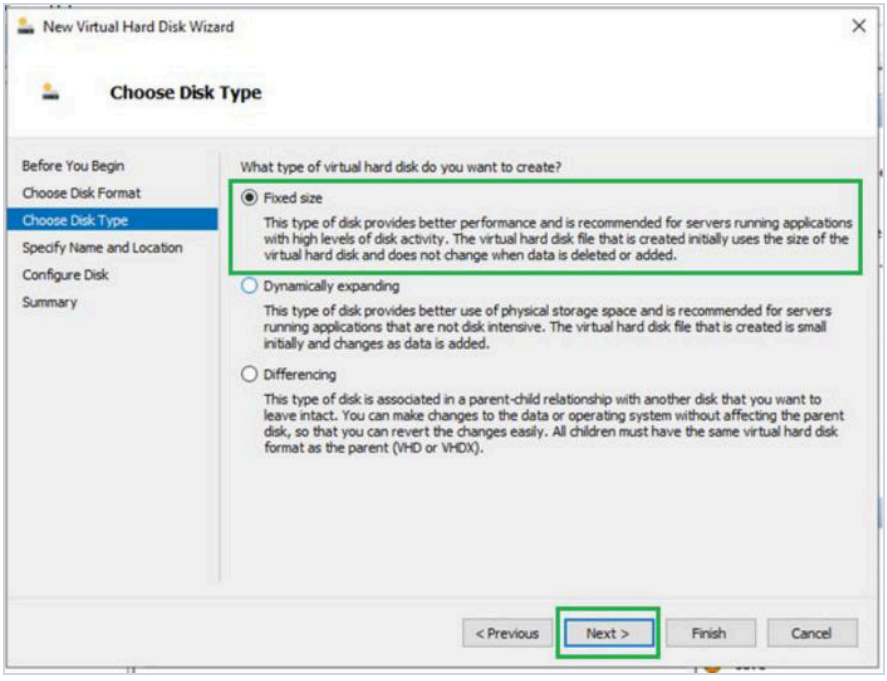


Figure 14. Disk type: Fixed size.

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5 Enter a **Name** and **Location** for the new disk, for example `DevRVM.vhd` in `D:\Virtuals\Disks\`.

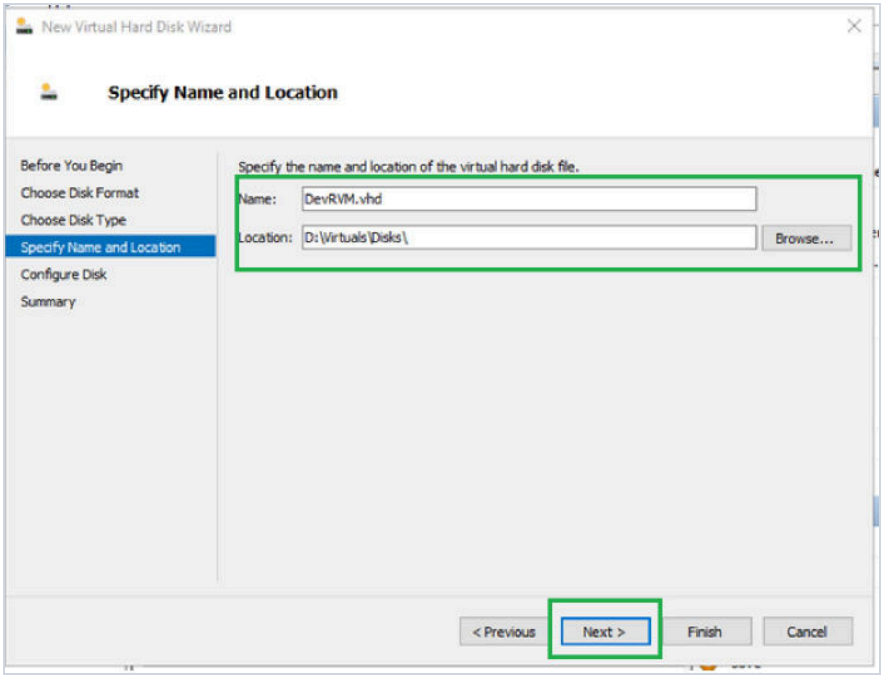


Figure 15. Name and location of the new disk.

6 On **Configure Disk**, select **Copy the contents of the specified virtual hard disk**, then **Browse…**

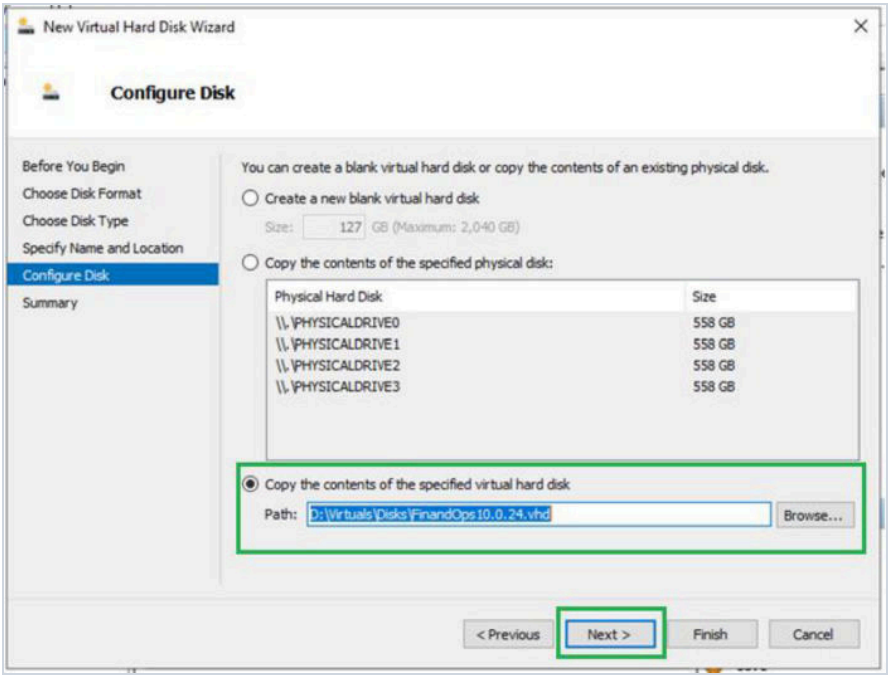


Figure 16. Copy the contents of a virtual hard disk.

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7 Select the extracted `FinandOps10.0.24` VHD and select **Open**.

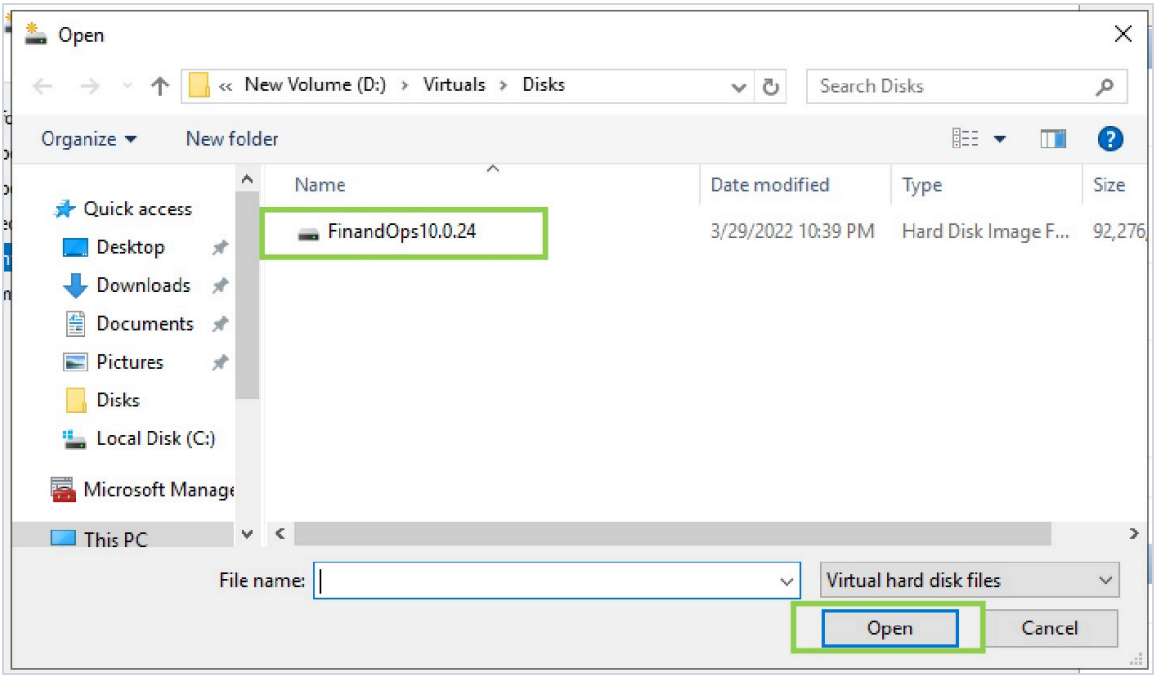


Figure 17. Browse to the extracted VHD.

8 Check that the path points to the extracted VHD, then select **Next**.

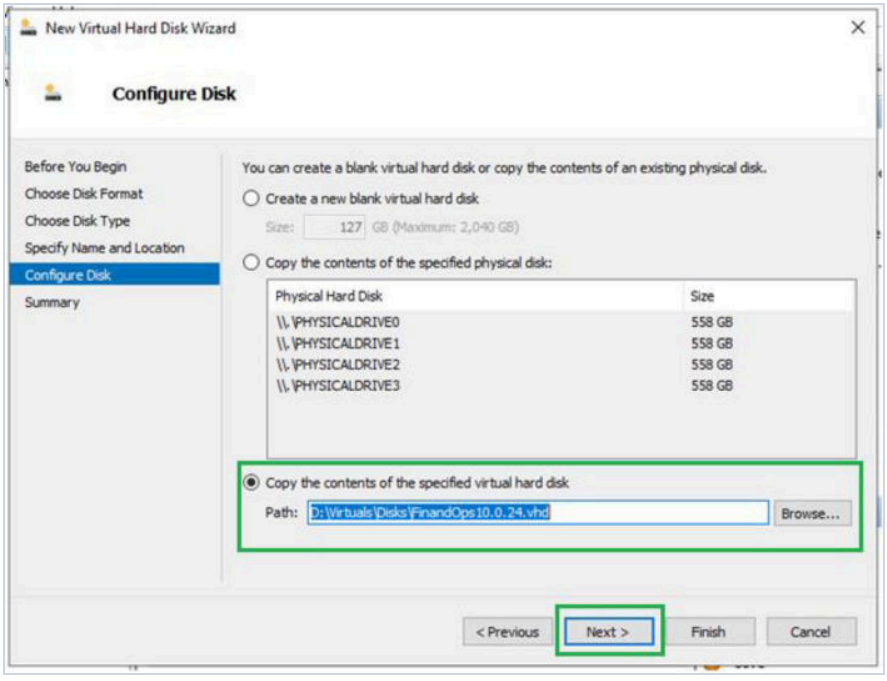


Figure 18. The source VHD path.

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9 Review the **Format**, **Type**, **Name**, **Location** and **Source**, then select **Finish**. Hyper-V now copies the whole disk, which takes a while.

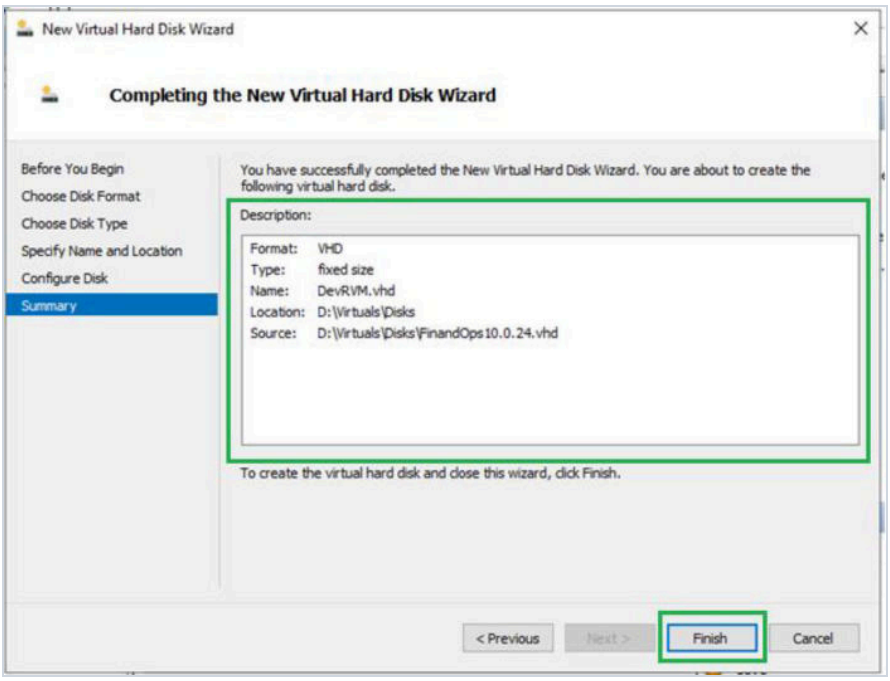


Figure 19. Summary of the new disk.

6 Create the virtual machine

1 In Hyper-V Manager, right-click the server name and select **New → Virtual Machine…**

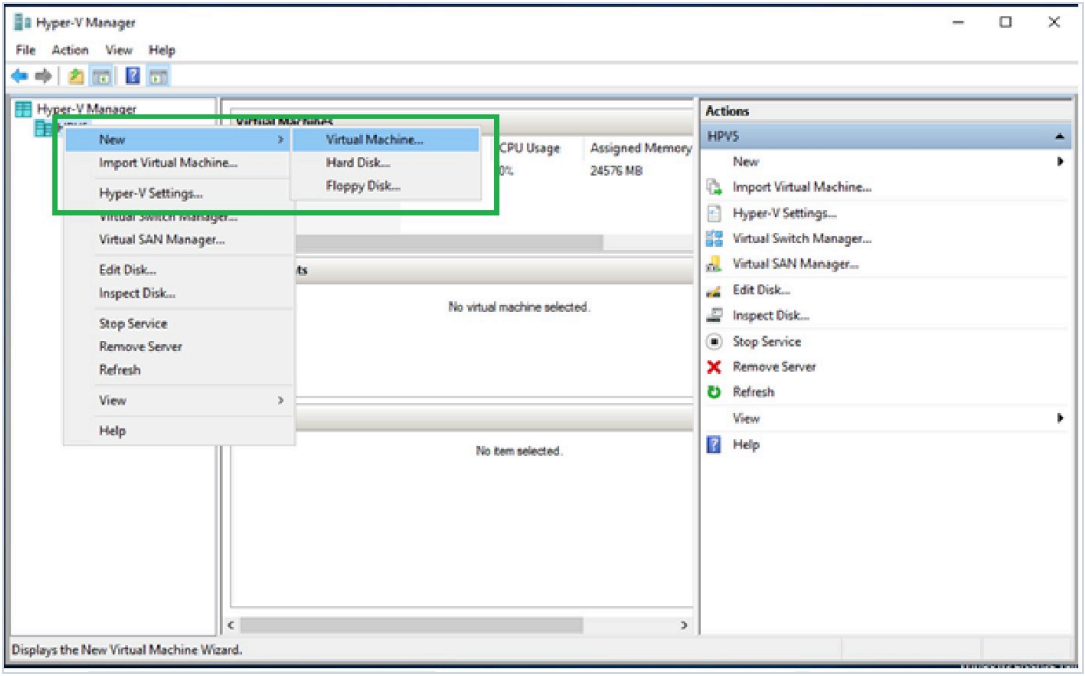


Figure 20. Hyper-V Manager: New → Virtual Machine.

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2 On **Before You Begin**, select **Next**.

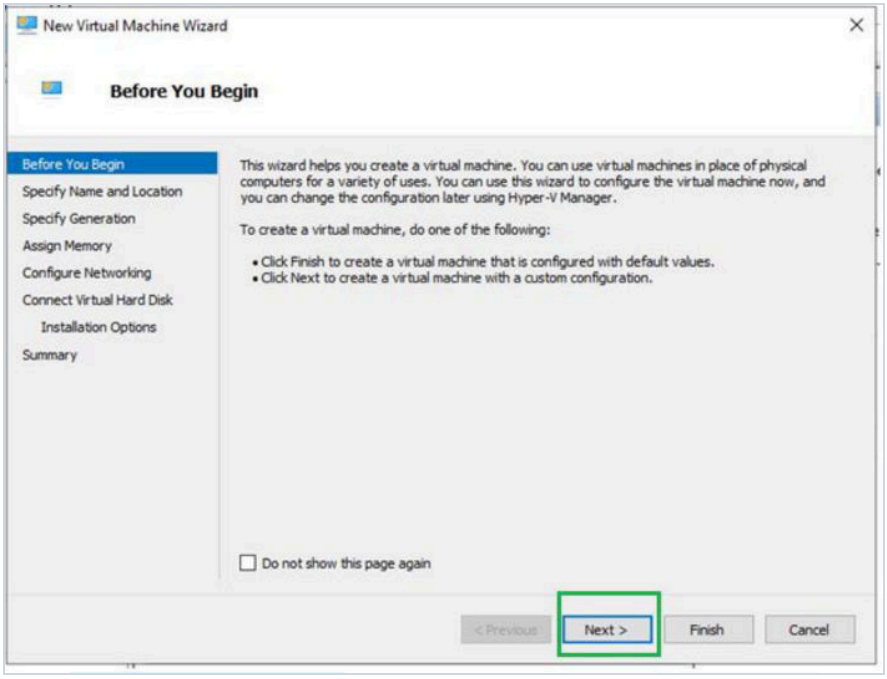


Figure 21. Before You Begin.

3 Enter the VM **Name**, for example `DevRVM`. Select **Store the virtual machine in a different location** and set the **Location**, for example `D:\Virtuals\Machines\`.

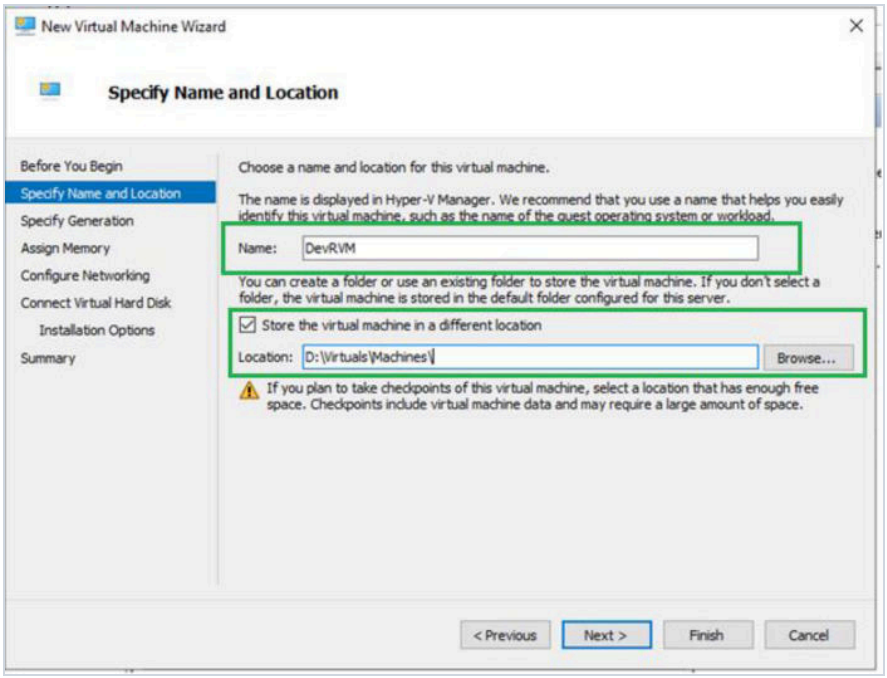


Figure 22. VM name and location.

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4 Select **Generation 1**. The generation can't be changed after the VM is created.

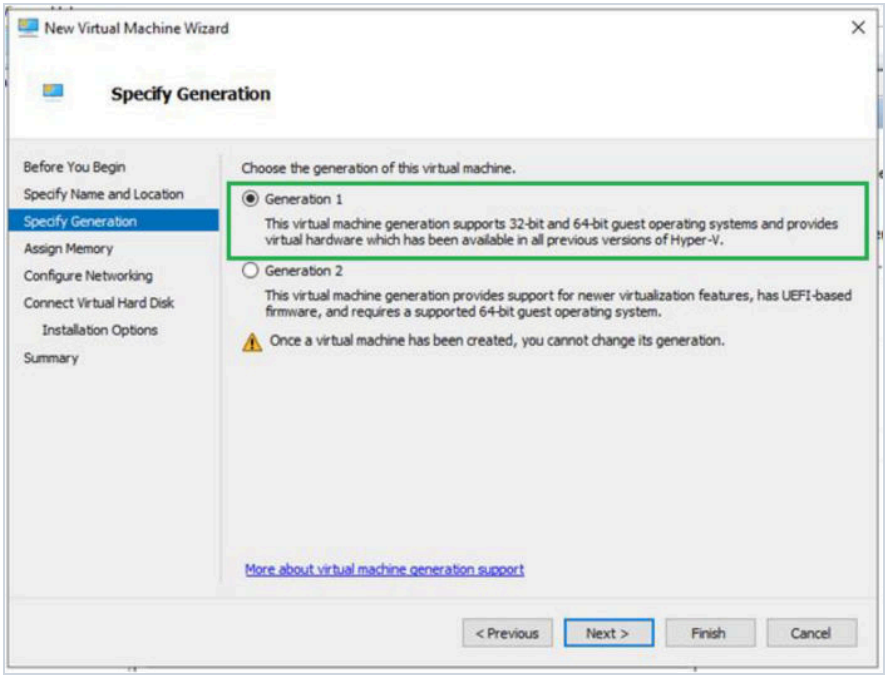


Figure 23. Generation 1.

5 Set **Startup memory** to `24576` MB (24 GB recommended) and leave **Use Dynamic Memory** cleared.

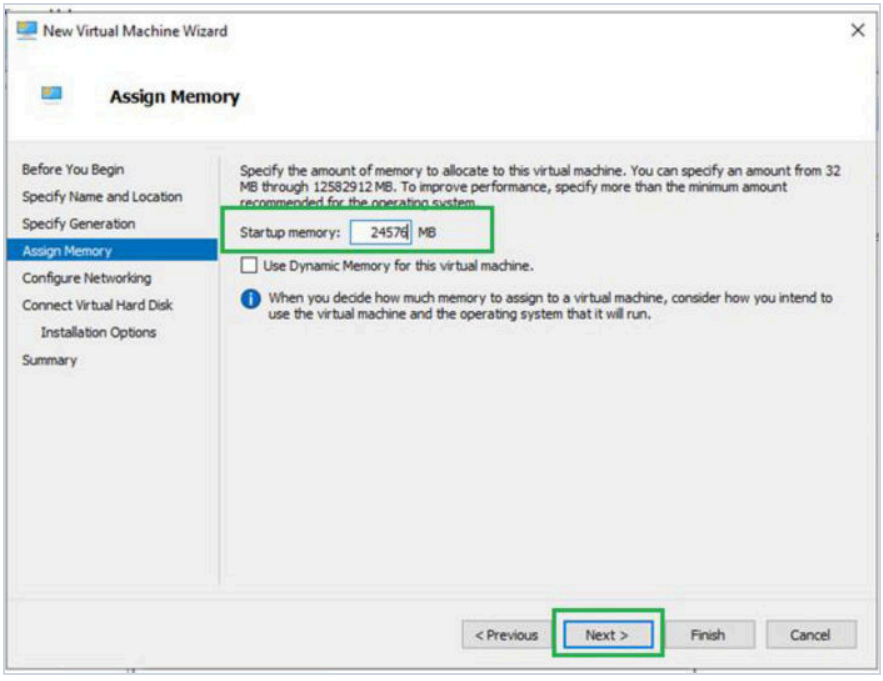


Figure 24. Startup memory: 24576 MB.

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6 For **Connection**, select the virtual switch you created earlier, `NATswitch` in this guide.

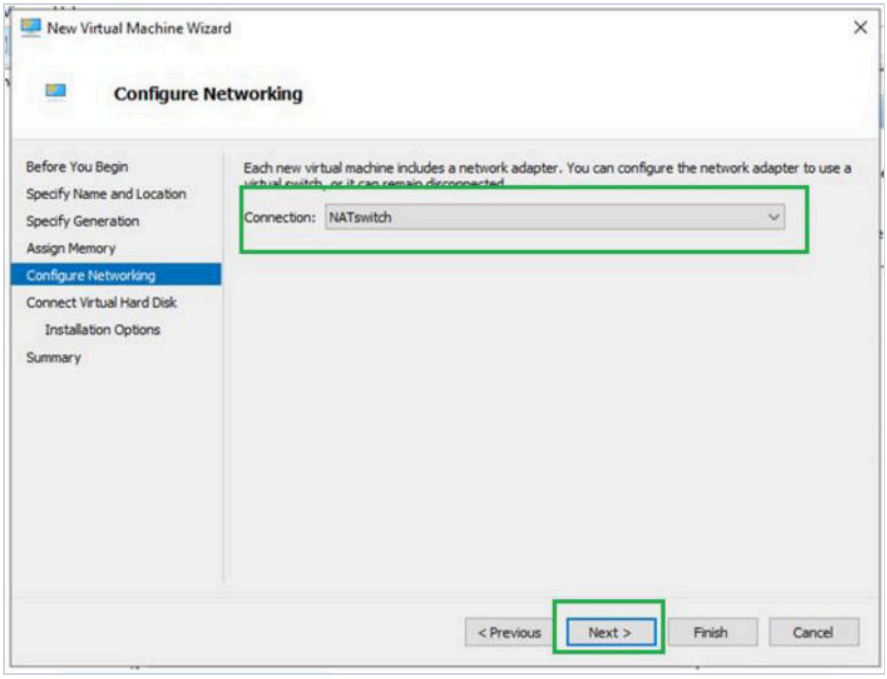


Figure 25. Network: the existing virtual switch.

7 Select **Use an existing virtual hard disk** and browse to the disk you created in section 5, `D:\Virtuals\Disks\DevRVM.vhd`.

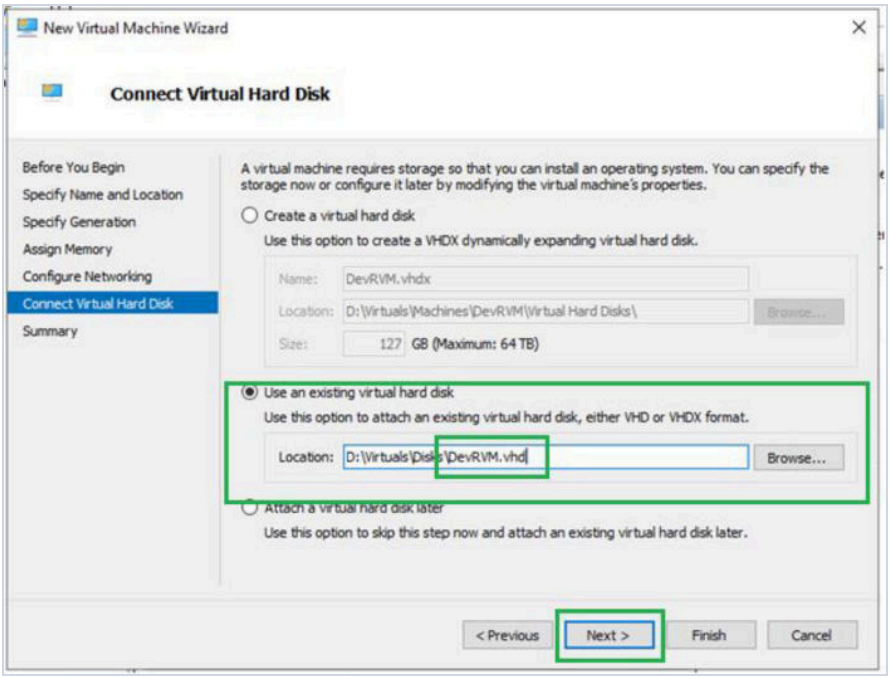


Figure 26. Attach the disk from section 5.

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8 Review the **Name**, **Generation**, **Memory**, **Network** and **Hard Disk**, then select **Finish**.

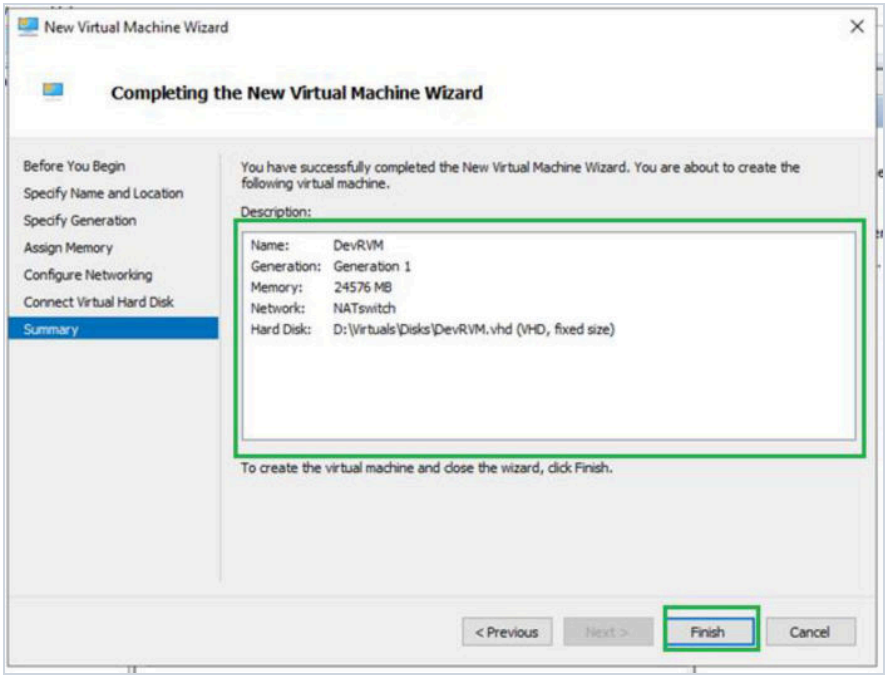


Figure 27. Summary of the new virtual machine.

7 Adjust VM settings before the first start

1 Right-click the new VM and select **Settings...**

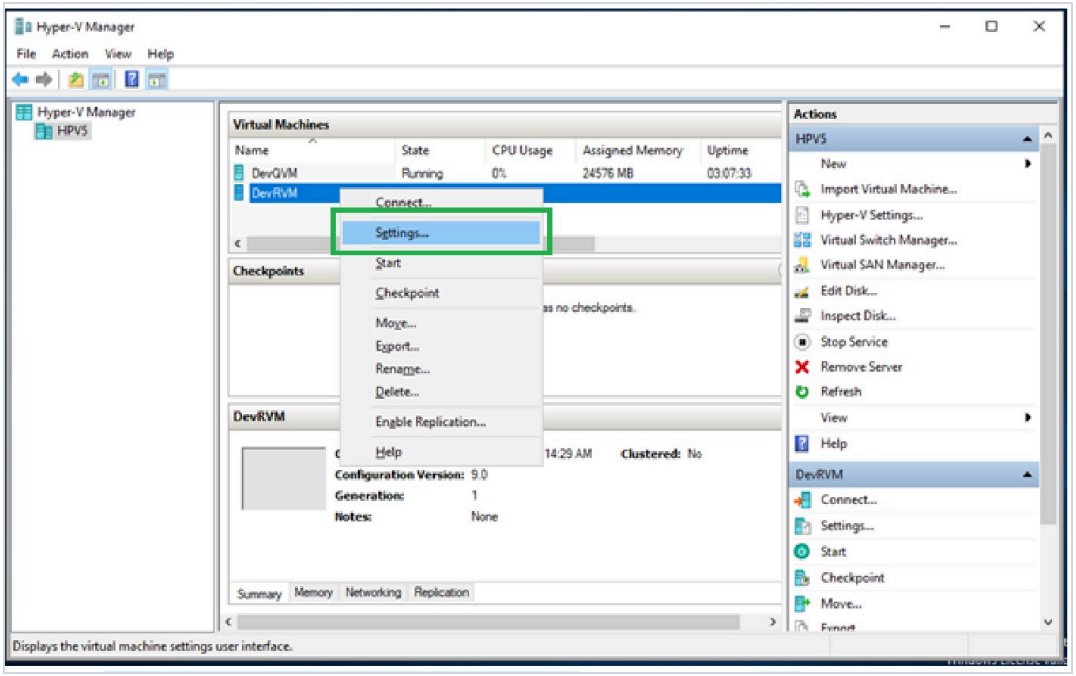


Figure 28. Open the VM's settings.

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2. On the **Processor** page, set **Number of virtual processors** to `6` (recommended).

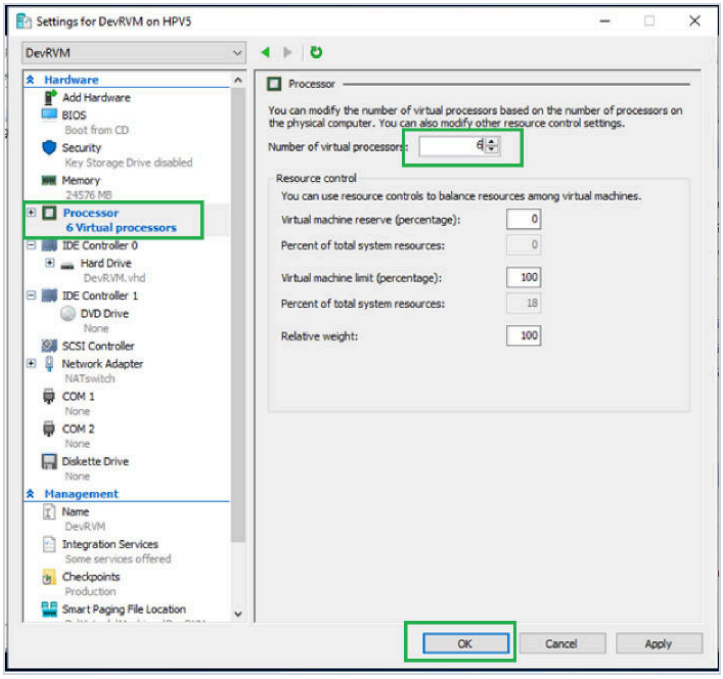


Figure 29. 6 virtual processors.

3. On **Integration Services**, select **Guest services** and clear **Backup (volume shadow copy)**.

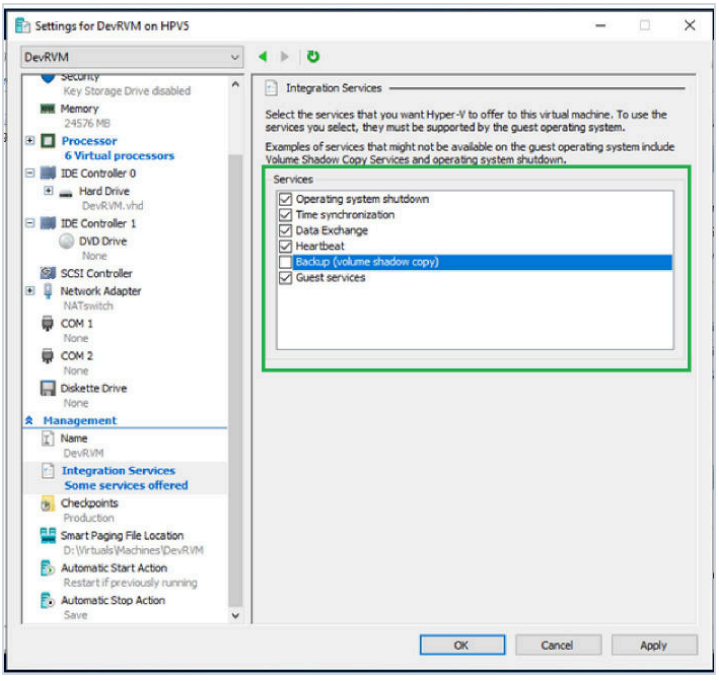


Figure 30. Integration services.

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4 On **Checkpoints**, clear **Enable checkpoints**, then select **OK**.

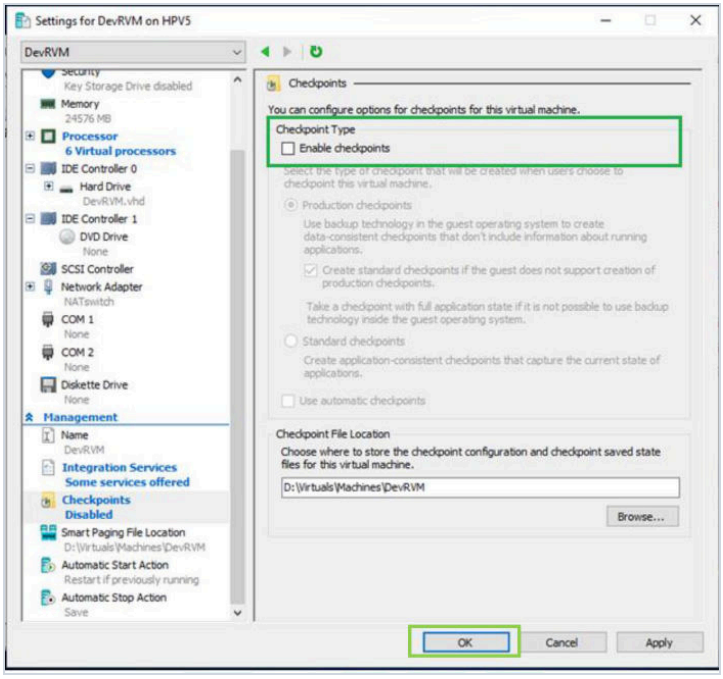


Figure 31. Checkpoints disabled.

Why no checkpoints. Checkpoints of a 90 GB D365 disk grow quickly and slow the VM down. When you need a baseline, shut the VM down and create a Hyper-V export instead.

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8 Start the VM and sign in

1. Right-click the VM and select **Start**.

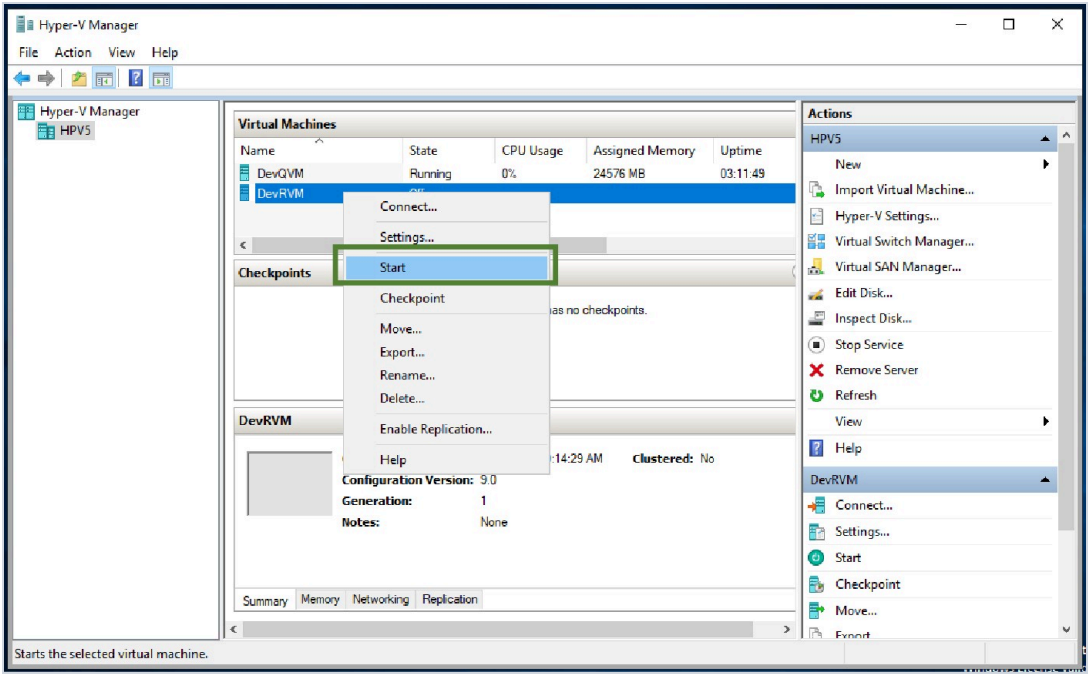


Figure 32. Start the VM.

2. Right-click the VM again and select **Connect…**

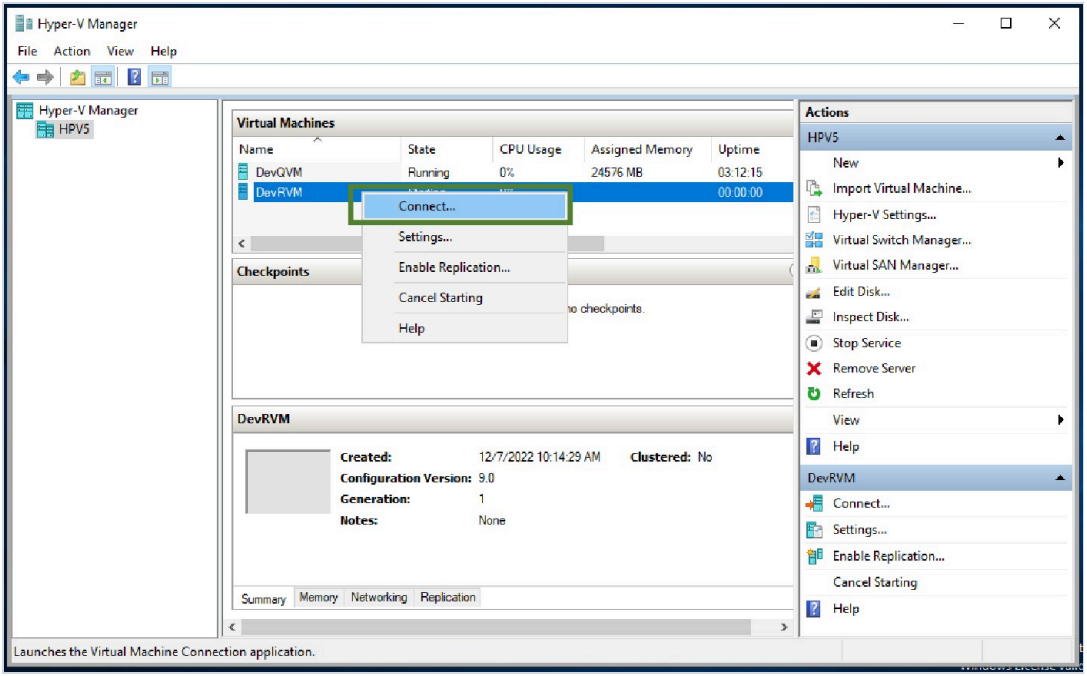


Figure 33. Connect to the VM.

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3. In the connection window, open the **Action** menu and select **Ctrl+Alt+Delete**. Pressing the keys on your keyboard doesn't reach the VM.



Figure 34. Action → Ctrl+Alt+Delete.

4. Sign in as **Administrator**. The default password on every D365 VHD is `pass@word1`.

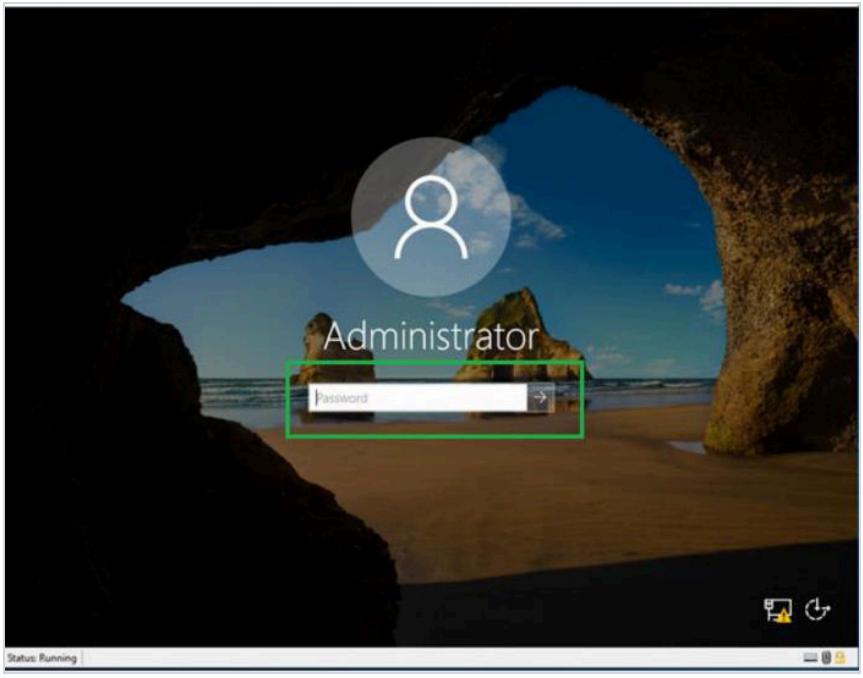


Figure 35. Sign in as Administrator.

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5. Check that the desktop opens. It shows the D365 shortcuts used later: **Generate Self-Signed Certificates** and **AdminUserProvisioning**.

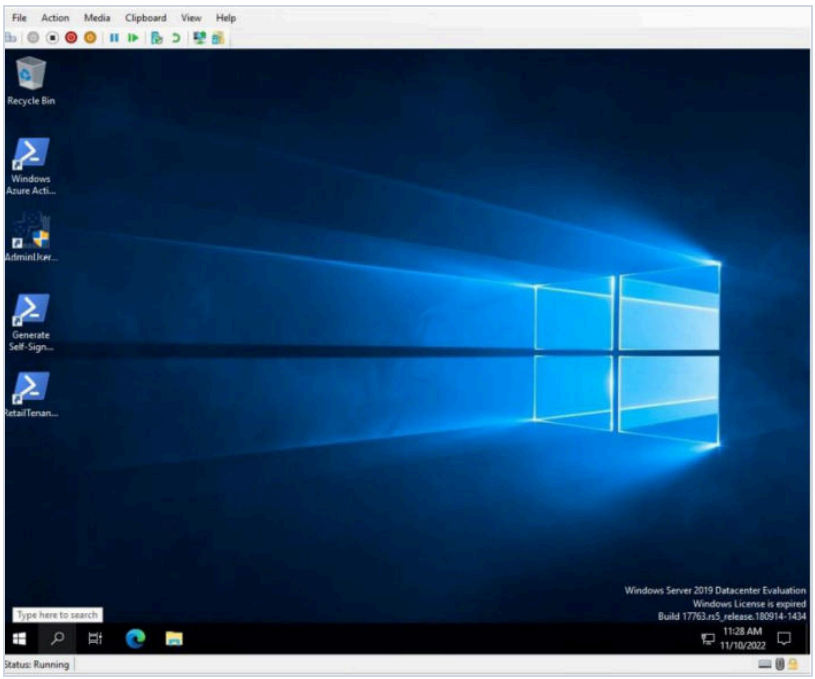


Figure 36. The VM desktop with the D365 tool shortcuts.

> **Change the default password**
>
> Everyone knows `pass@word1`. Change it in section 10 before you connect the VM to any network others can reach.

9 Rename the machine

A fresh VHD has a random name such as `MININT-57EHFHJ`. Write it down: you need the old name in section 13.

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1 Open File Explorer, right-click **This PC** and select **Properties**.

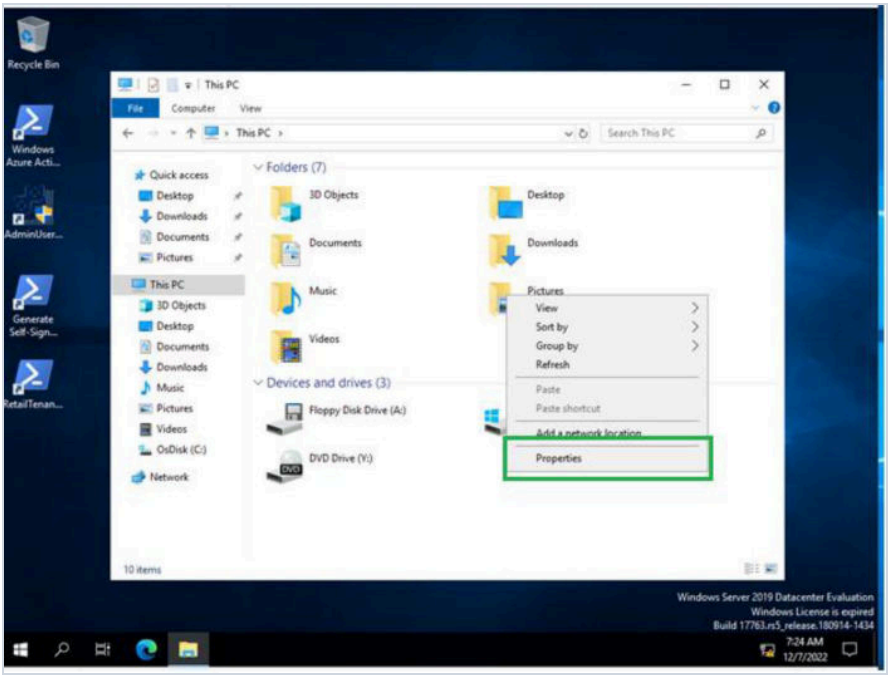


Figure 37. This PC → Properties.

2 Select **Advanced system settings**.

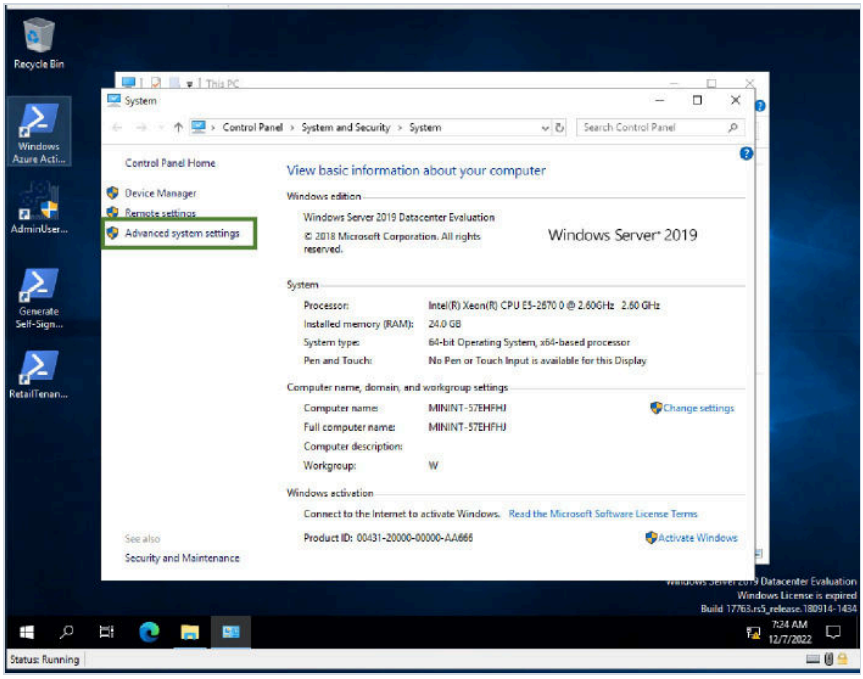


Figure 38. Advanced system settings.

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3 On the **Computer Name** tab, select **Change…**

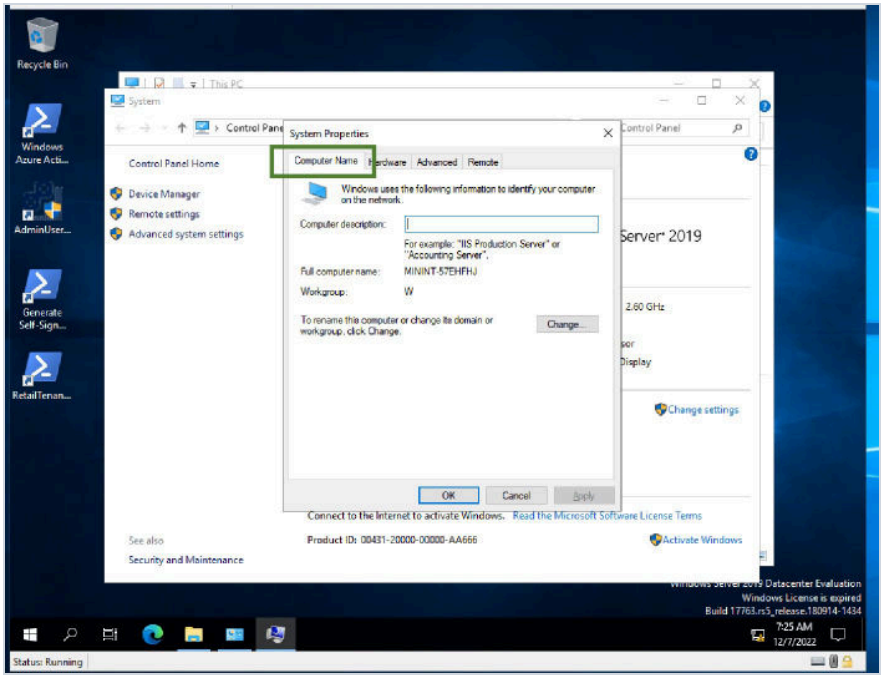


Figure 39. Computer Name tab.

4 Enter the new name for the machine, for example `DevRVM`, and select **OK**.

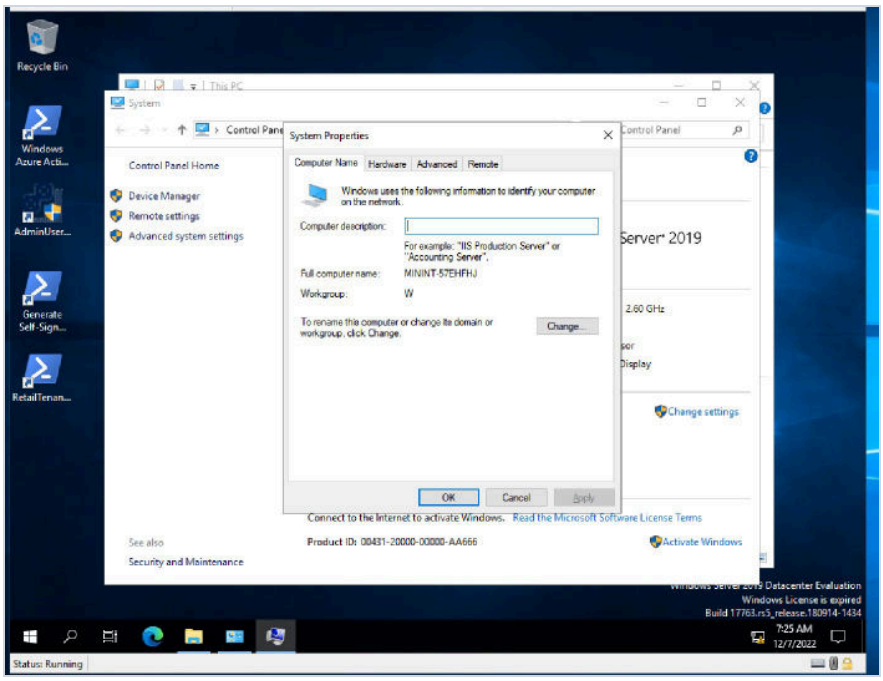


Figure 40. Change the computer name.

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5 Select **Restart Now** to apply the new name.

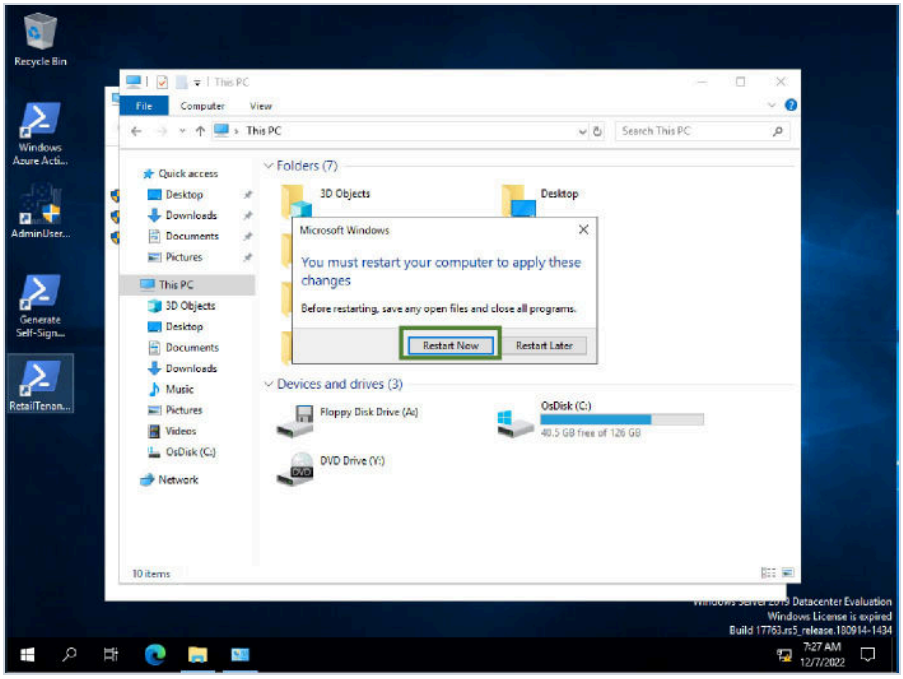


Figure 41. Restart to apply the new name.

10 Change the Administrator password

1 Search for **change password** and open **Change your password**.

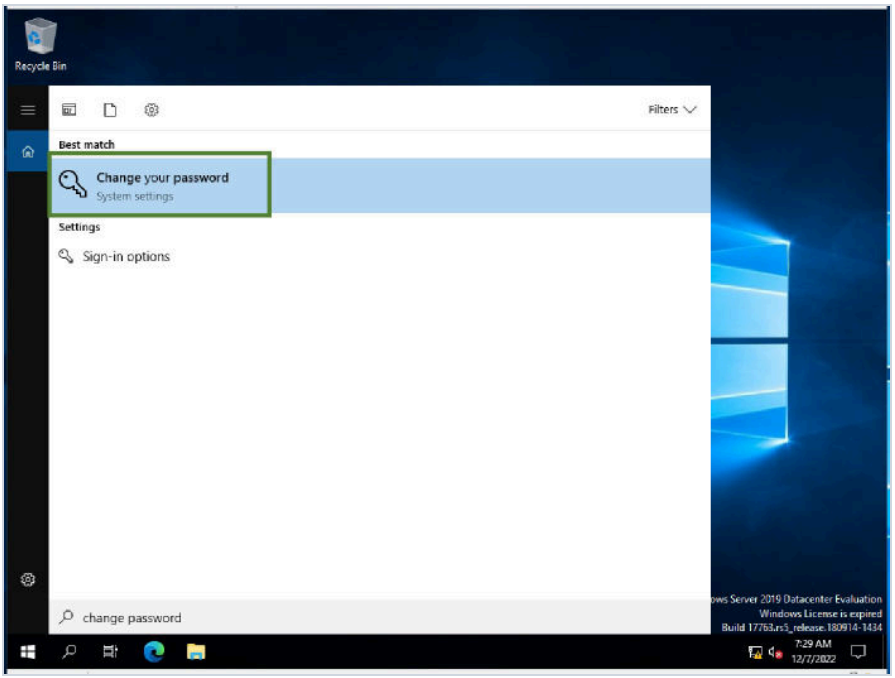


Figure 42. Open Change your password.

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2. Enter the current password, `pass@word1`, and select **Next**.

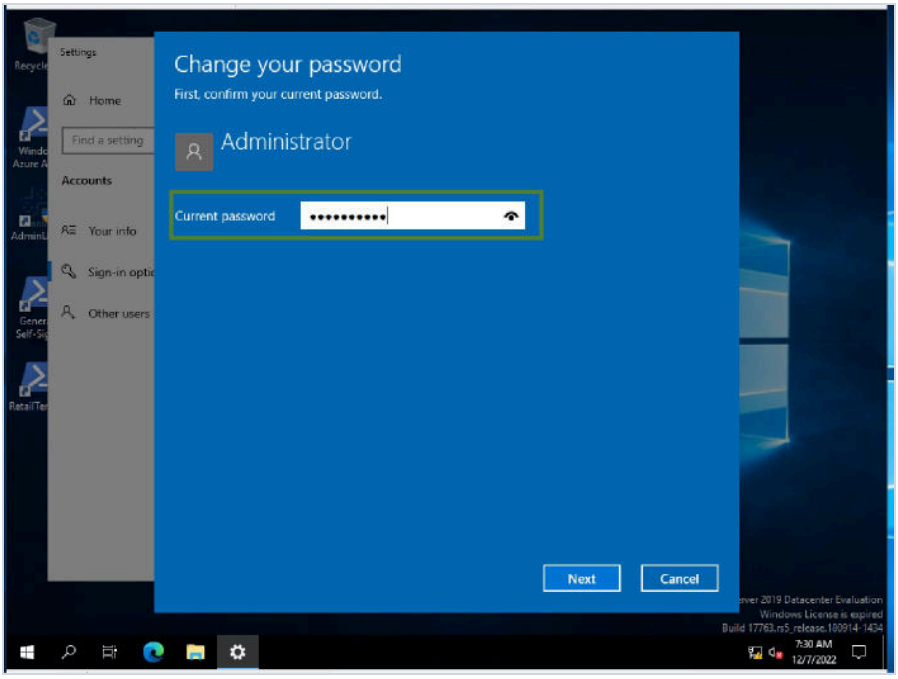


Figure 43. Confirm the current password.

3. Enter and confirm a new strong password, add a hint, then select **Next** and **Finish**.

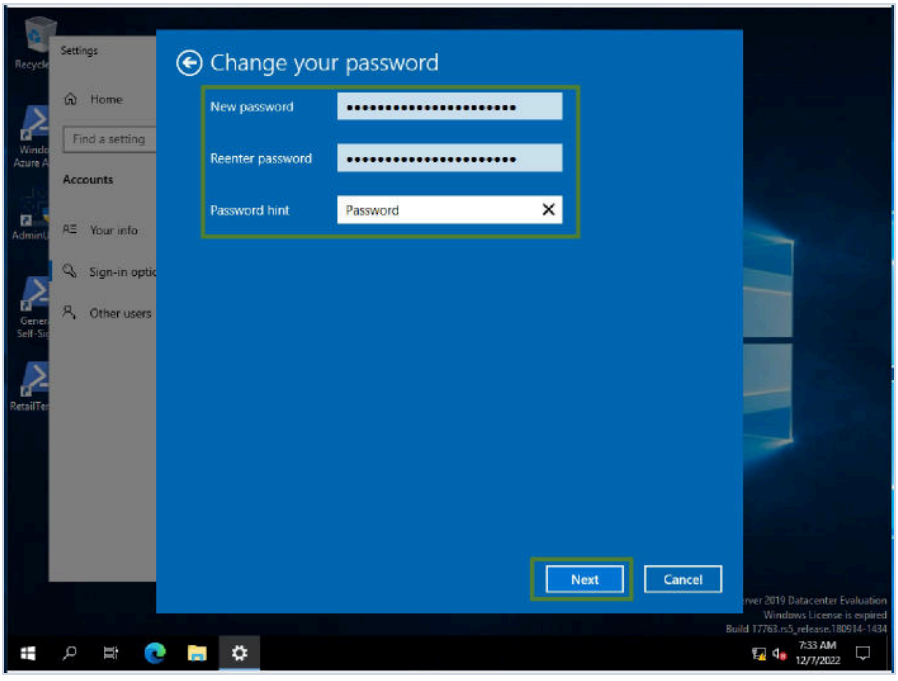


Figure 44. Set the new password.

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11 Rearm the Windows evaluation licence

The VHD runs an evaluation edition of Windows Server, and the desktop soon shows *Windows License is expired*. Rearming resets the evaluation period.

1. Search for **cmd**, right-click **Command Prompt** and select **Run as administrator**.

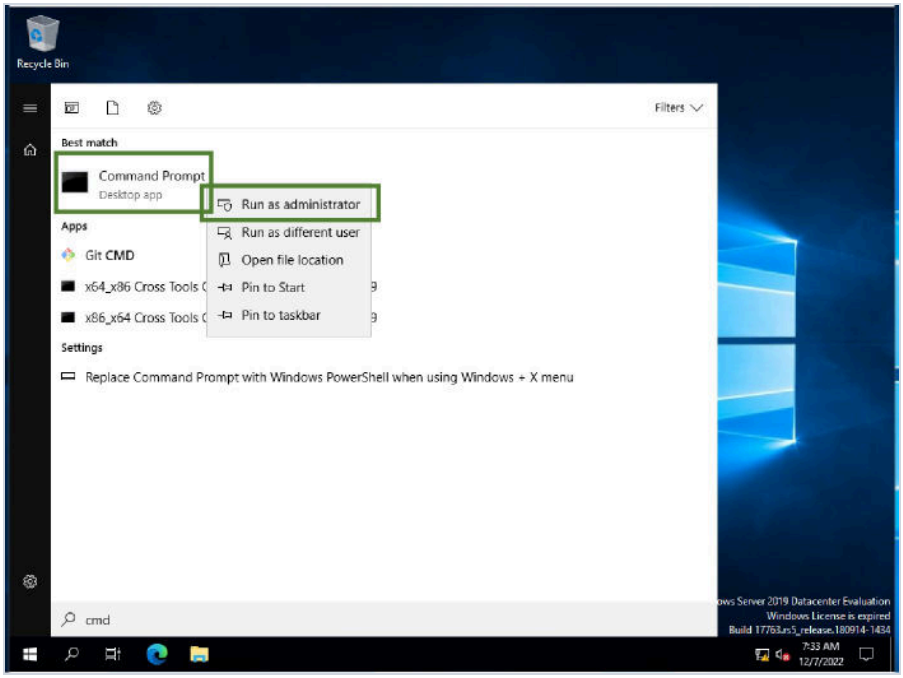


Figure 45. Command Prompt → Run as administrator.

2. Run the rearm command:

COMMAND PROMPT · RUN AS ADMINISTRATOR

```
slmgr /rearm
```

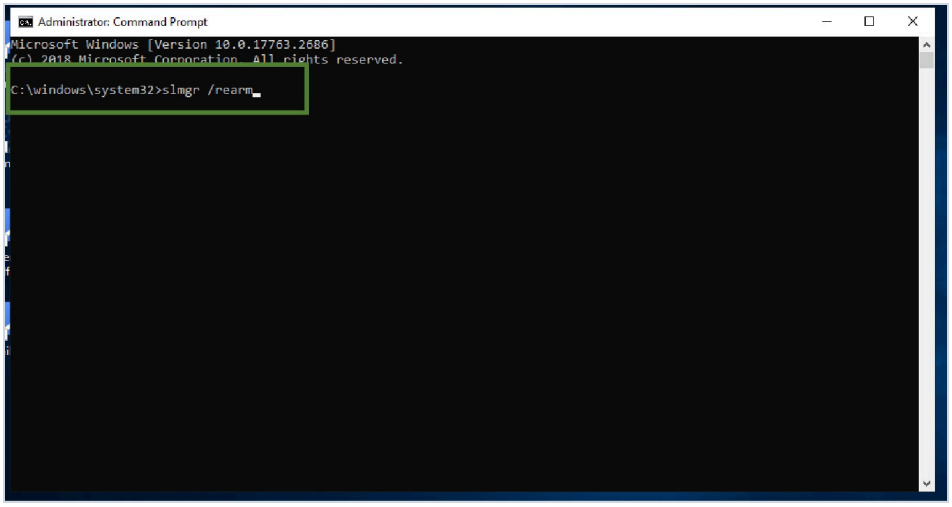


Figure 46. The rearm command.

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3 When Windows Script Host reports *Command completed successfully*, select **OK** and restart the machine.

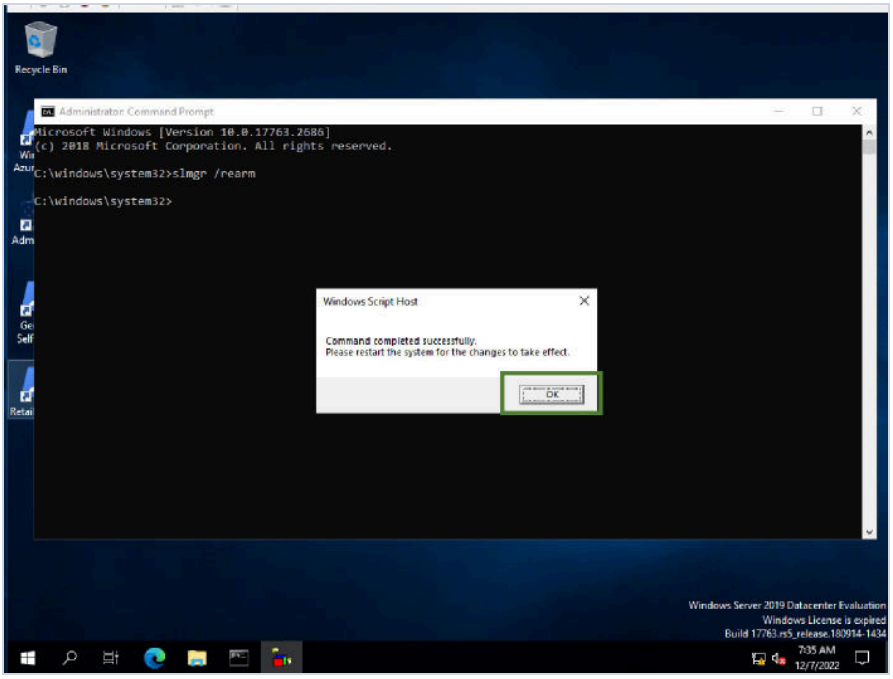


Figure 47. Rearm completed. Restart to apply it.

What success looks like. After the restart, the desktop shows *Windows License valid for 180 days*.

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12 Configure the network adapter

1. Right-click the network icon in the taskbar and select **Open Network & Internet settings**.

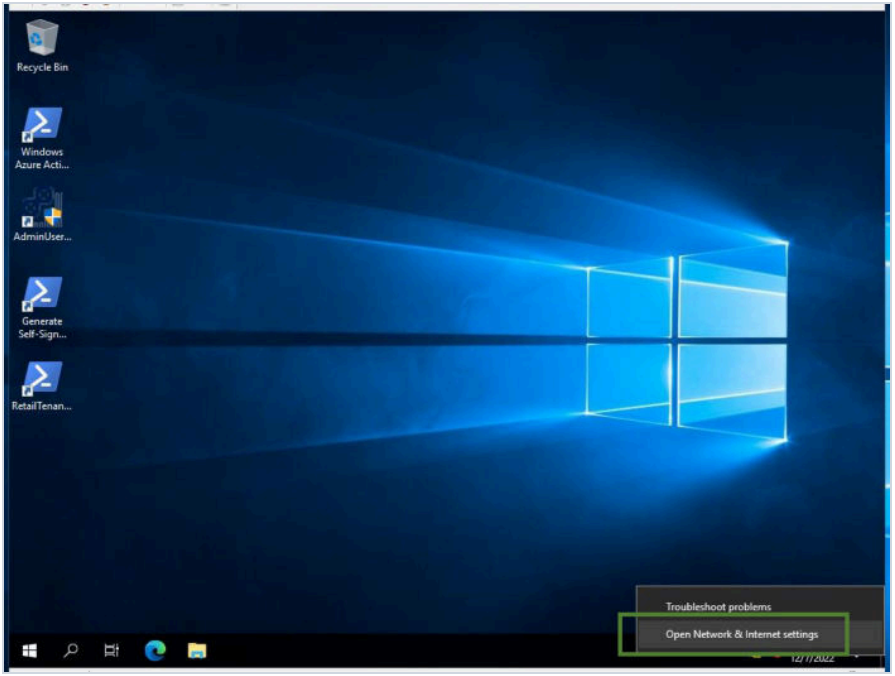


Figure 48. Open Network & Internet settings.

2. Select **Change adapter options**.

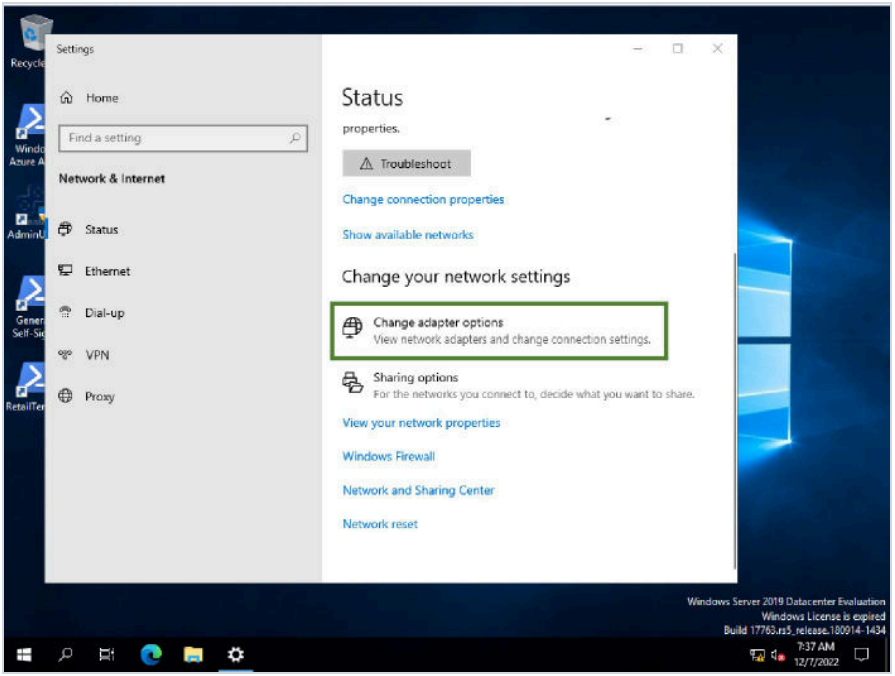


Figure 49. Change adapter options.

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3 All network adapters are listed. Right-click the adapter and select **Properties**.

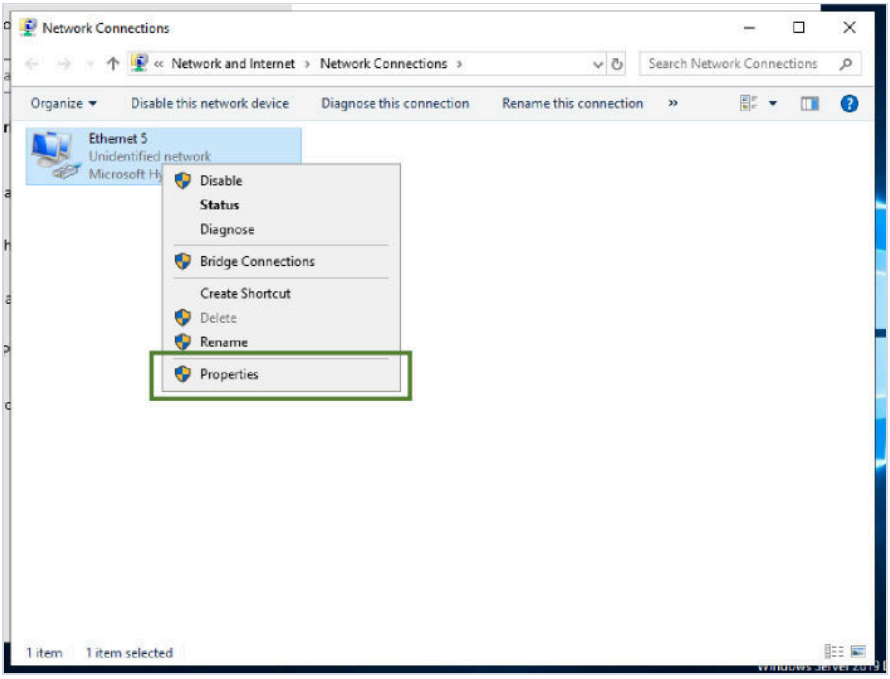


Figure 50. Adapter → Properties.

4 If the **Status** window opens instead, select **Properties** there.

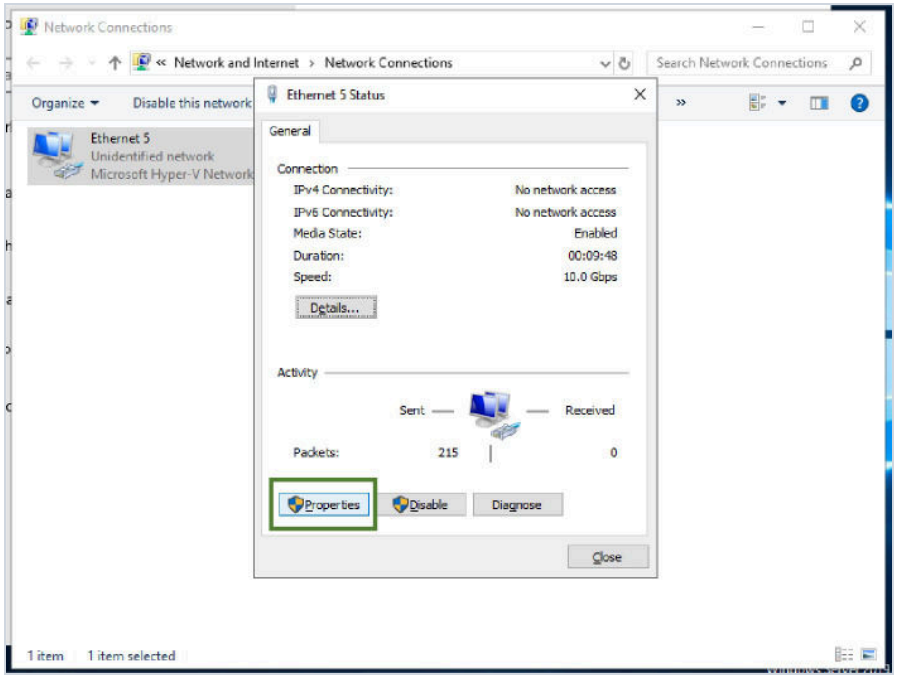


Figure 51. Status → Properties.

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5 Select **Internet Protocol Version 4 (TCP/IPv4)** and then **Properties**.

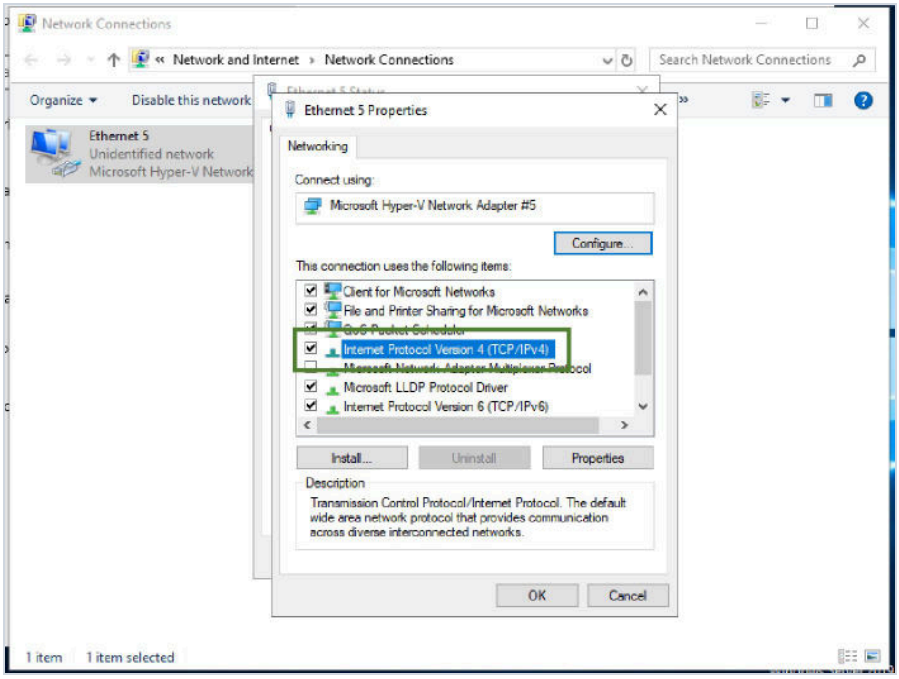


Figure 52. Internet Protocol Version 4.

6 Set the **IP address**, **Subnet mask**, **Default gateway** and **DNS servers** for your network, then select **OK**.

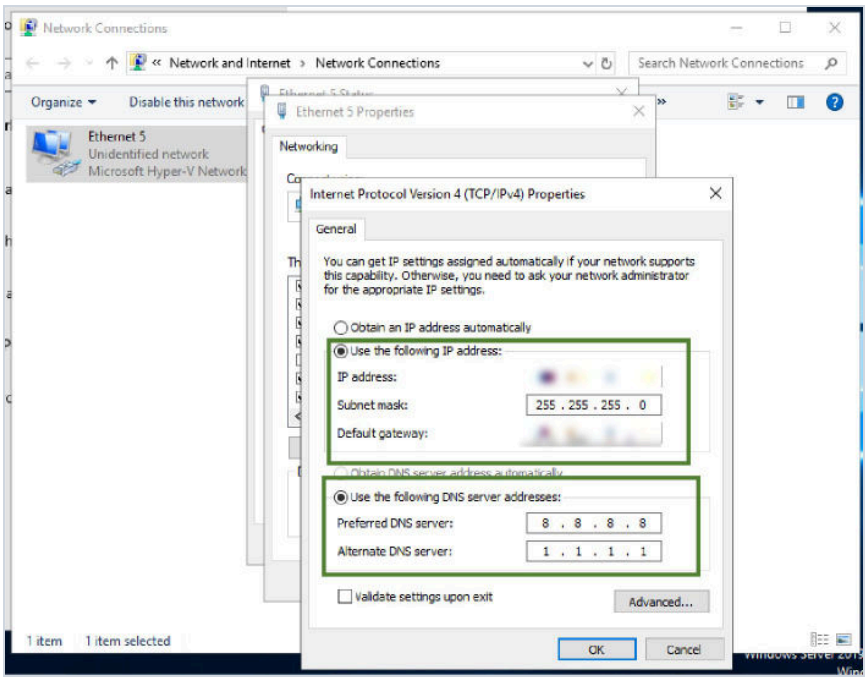


Figure 53. Static IP and DNS (IP values hidden).

Which values. The IP address and gateway must be in your virtual switch's subnet. The example uses public DNS servers `8.8.8.8` and `1.1.1.1`.

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13 Rename the SQL Server instance

SQL Server still carries the machine's old name. Update it so it matches the name you set in section 9.

1. Search for **ssms**, right-click **Microsoft SQL Server Management Studio** and select **Run as administrator**.

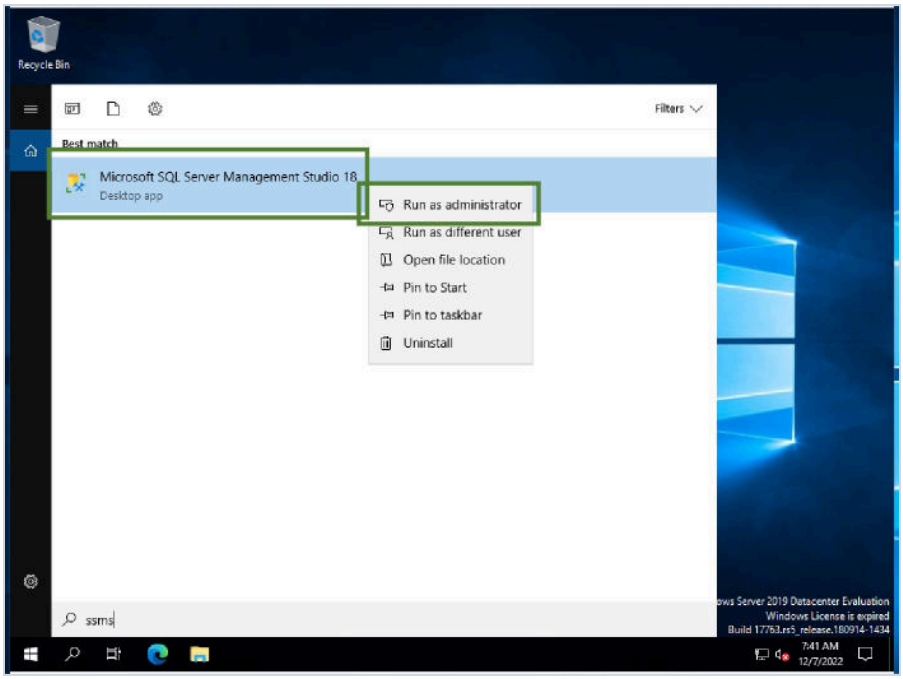


Figure 54. SSMS → Run as administrator.

2. Wait for SSMS to open.

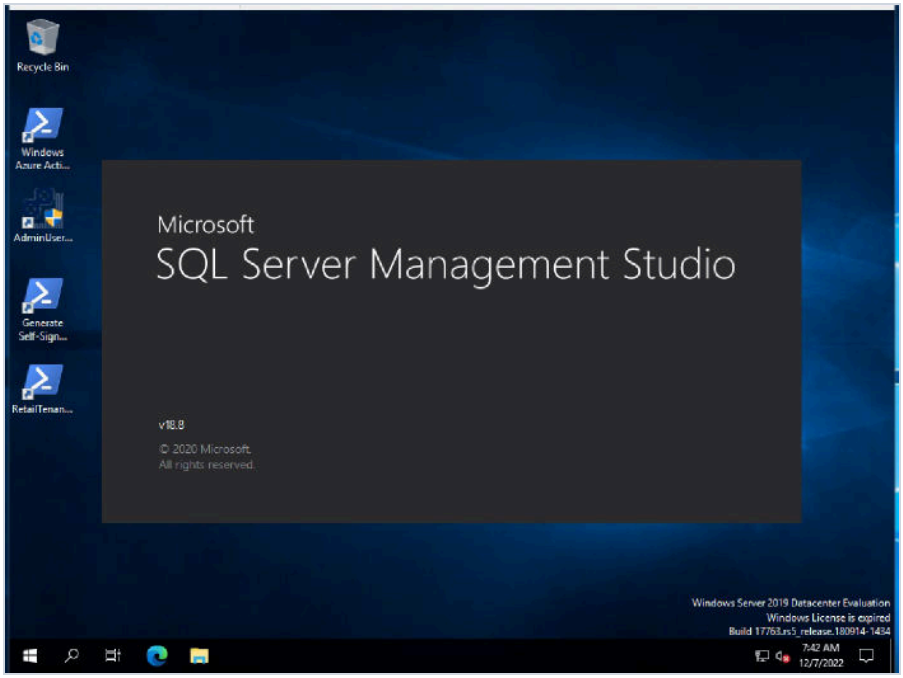


Figure 55. SSMS starting.

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3 Enter the machine name as **Server name**, keep **Windows Authentication** and select **Connect**.

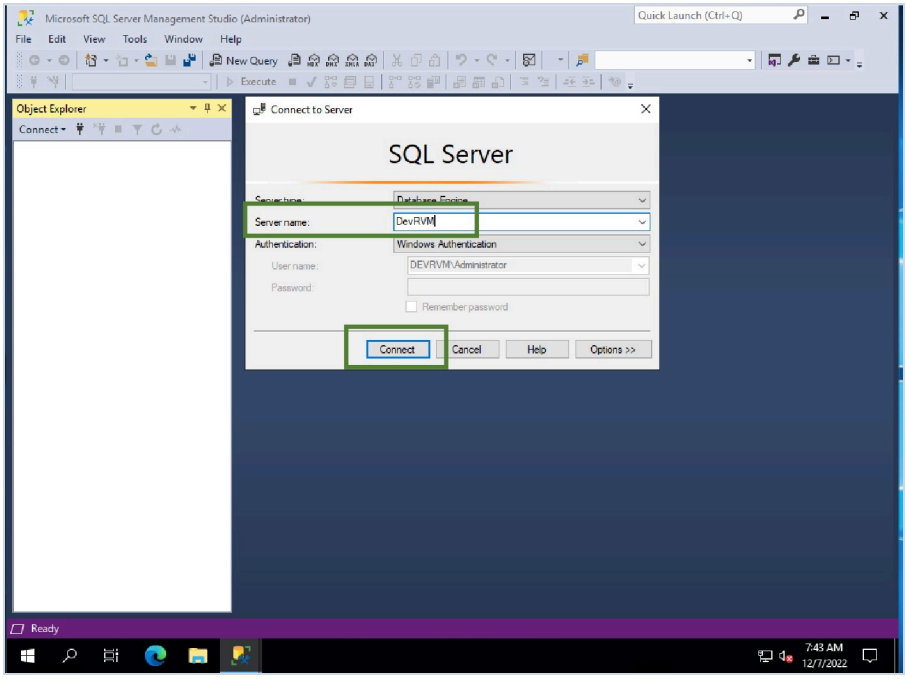


Figure 56. Connect to the local server.

4 Check that the database engine connects and that **Databases** lists `AxDB`.

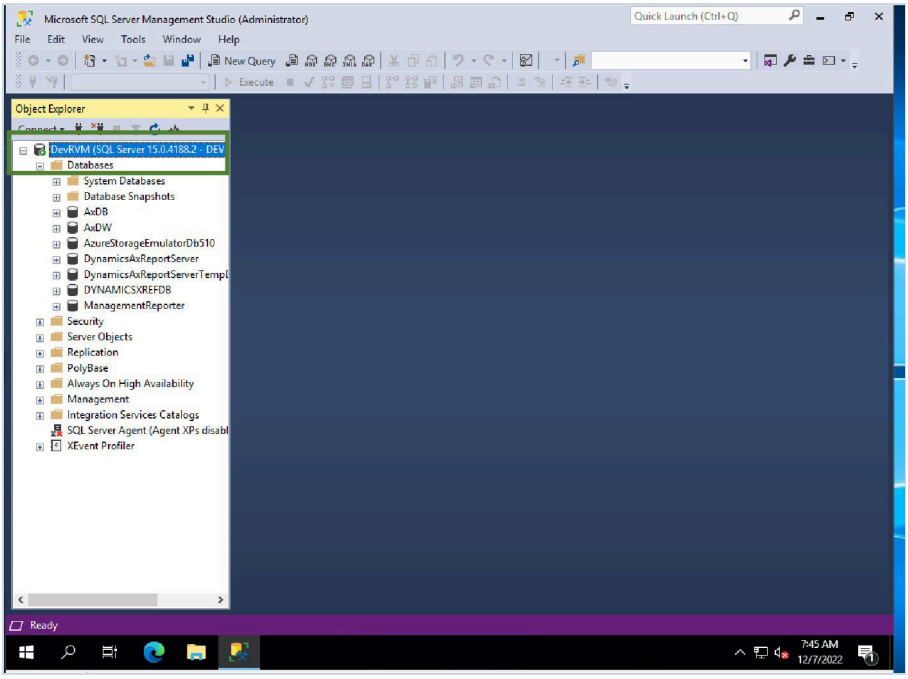


Figure 57. The connected database engine.

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5 Open a new query with **Ctrl+N**, or **File → New → Query with Current Connection**.

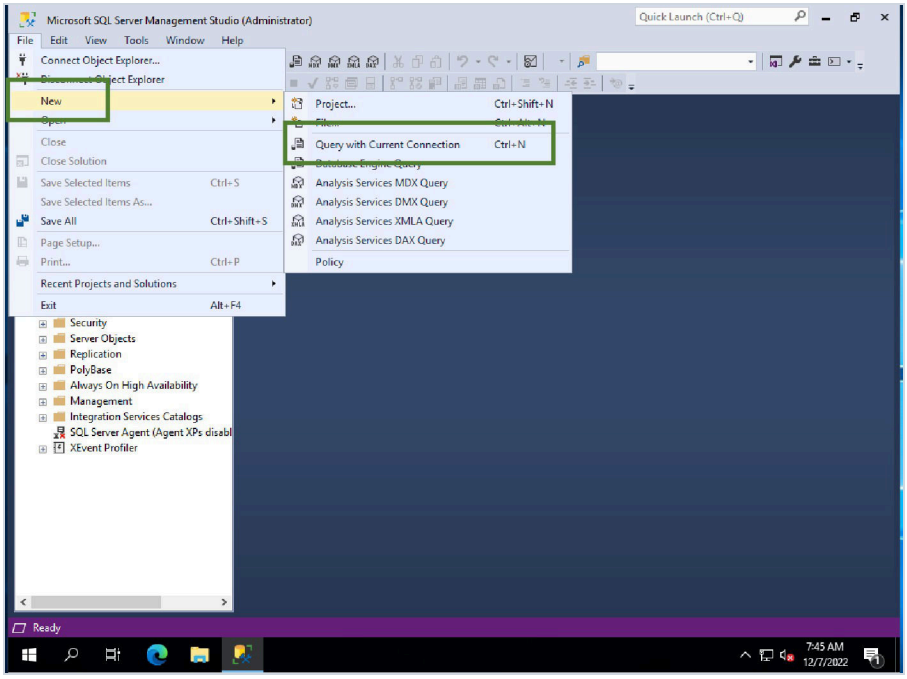


Figure 58. New query with the current connection.

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6 Check the server name and run the query with **F5** or **Execute**. `@@SERVERNAME` still returns the old name, and `SERVERPROPERTY` returns the new one.

SQL · READ-ONLY

```
SELECT @@SERVERNAME;
SELECT SERVERPROPERTY('ServerName');
```

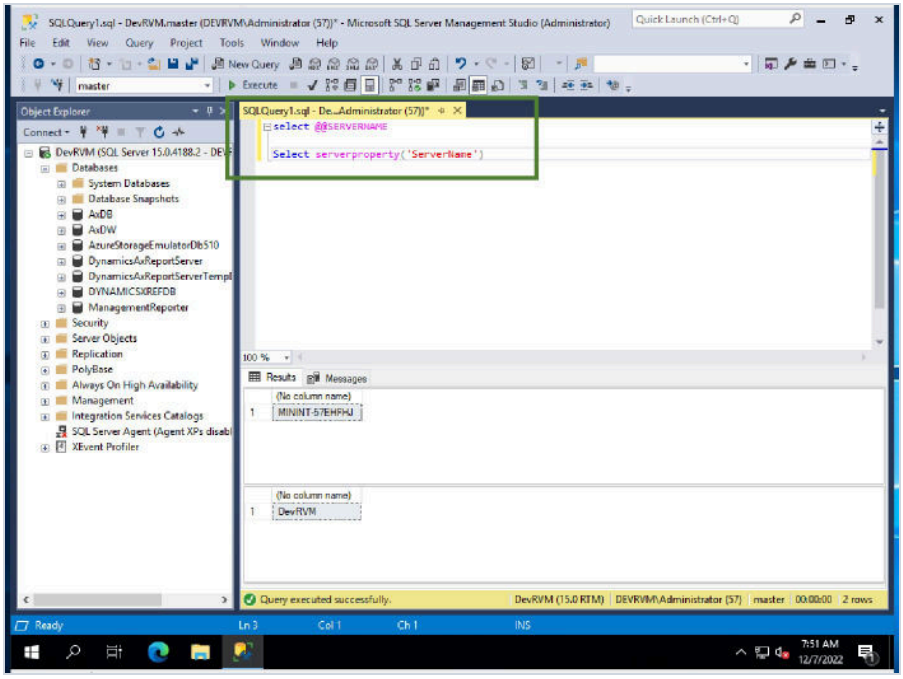


Figure 59. Old name (top) and new name (bottom).

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7 Replace the old name with the new one. Use your own names in place of the placeholders, run the script, then restart the machine.

SQL · CHANGES SERVER NAME

```
EXEC sp_dropserver '<old-name>';     -- for example 'MININT-57EHFHJ'
GO
EXEC sp_addserver '<new-name>', local; -- for example 'DevRVM'
GO
```

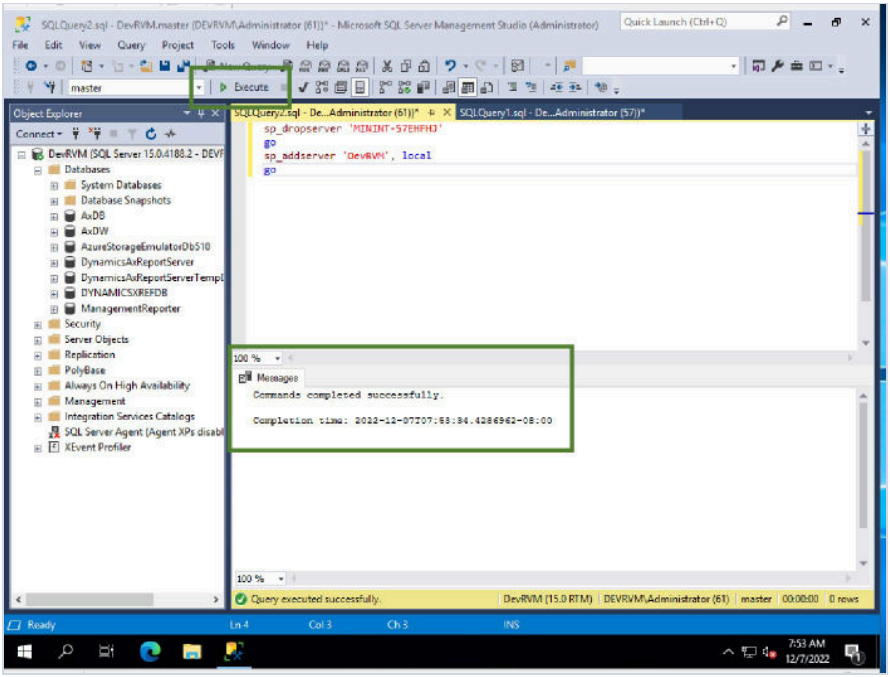


Figure 60. The rename commands completed successfully.

Check after the restart. Run the read-only query again. Both lines should now return the new name.

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14 Check the Reporting Server configuration

1. Search for and open **Report Server Configuration Manager**.

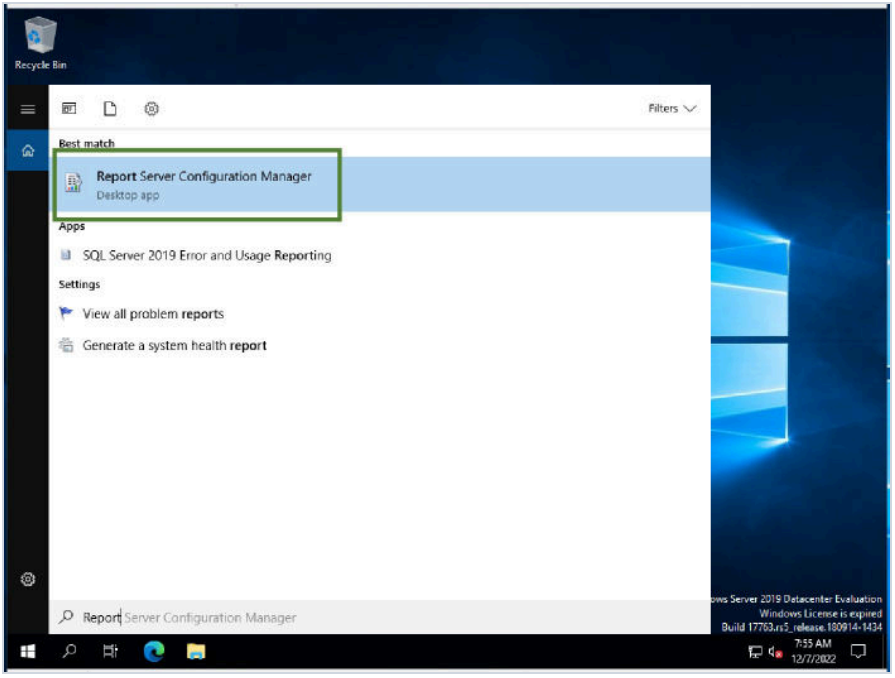


Figure 61. Open Report Server Configuration Manager.

2. Enter the machine name as **Server Name**, keep the `SSRS` instance and select **Connect**.

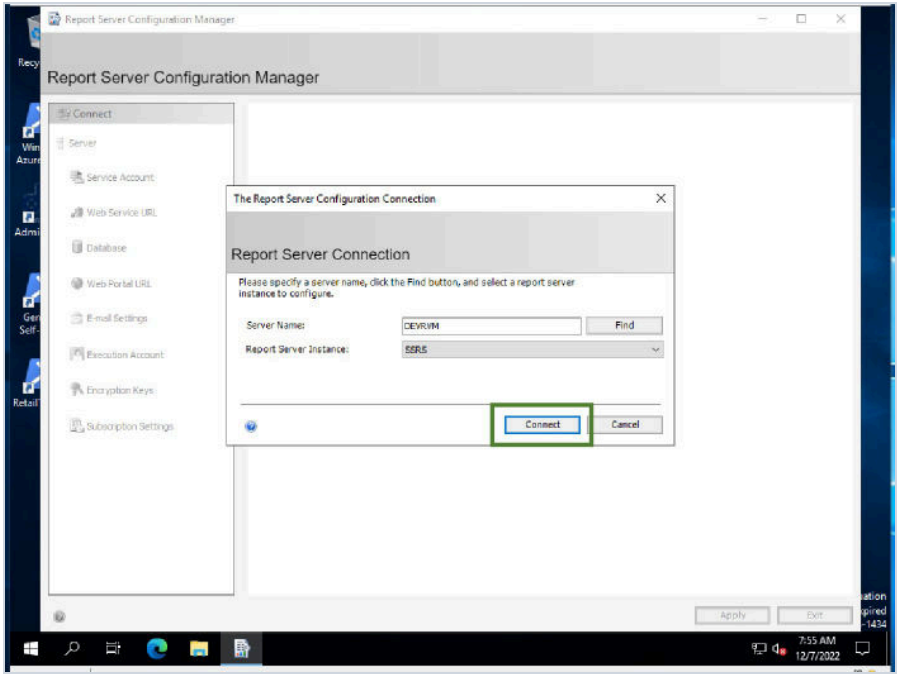


Figure 62. Connect to the SSRS instance.

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3. Go to the **Database** page and check that **SQL Server Name** is `localhost`. Because it points at `localhost`, the rename doesn't affect it.

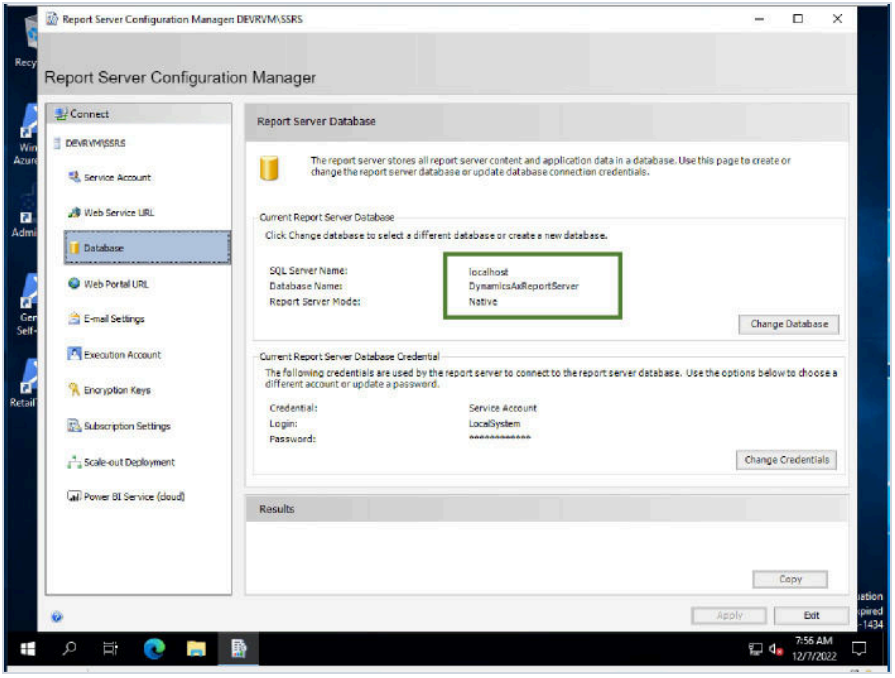


Figure 63. Report server database: localhost / DynamicsAxReportServer.

15 Install extra tools

Install these two tools inside the VM. Chrome's incognito window is used in the next section to sign in to the Azure portal.

Tool	Download from
Google Chrome	google.com/chrome
Notepad++	notepad-plus-plus.org/downloads

16 Register the app in Microsoft Entra ID

D365 signs users in through Microsoft Entra ID (formerly Azure AD). Register one app for this VM. The certificate script in section 17 needs its **Application (client) ID**.

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1. Open the Azure portal at https://portal.azure.com/#home.

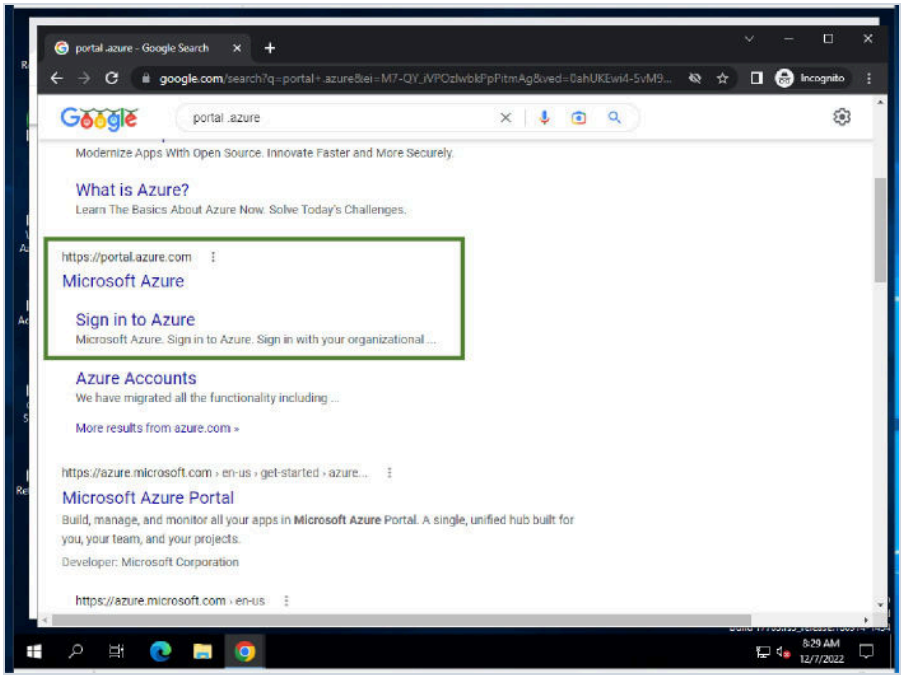


Figure 64. Open portal.azure.com.

2. Sign in with your work email in the tenant you'll use for D365.

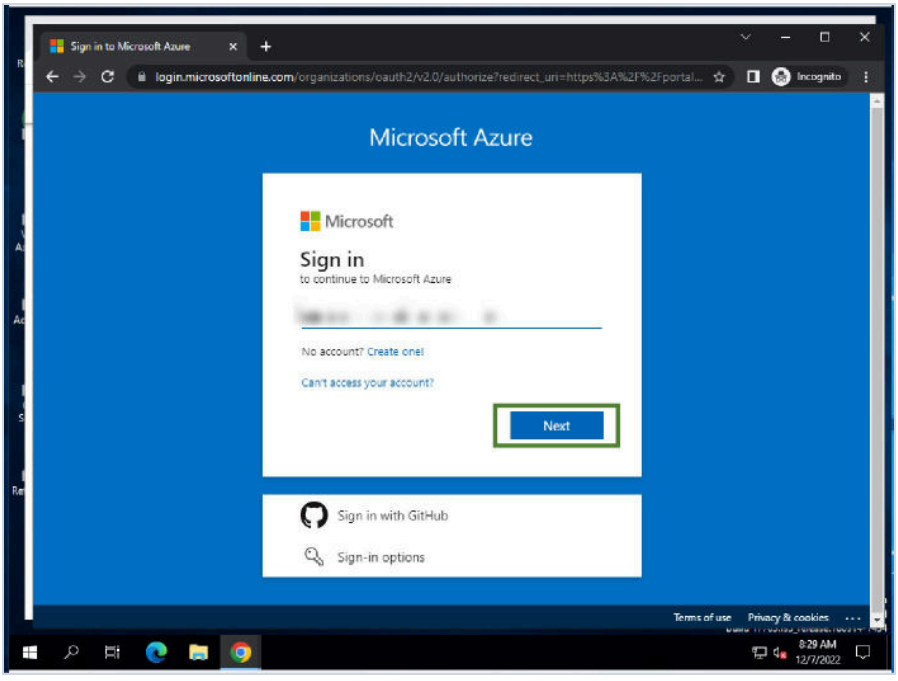


Figure 65. Sign in with your work account (hidden).

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3 Search for and open **App registrations**.

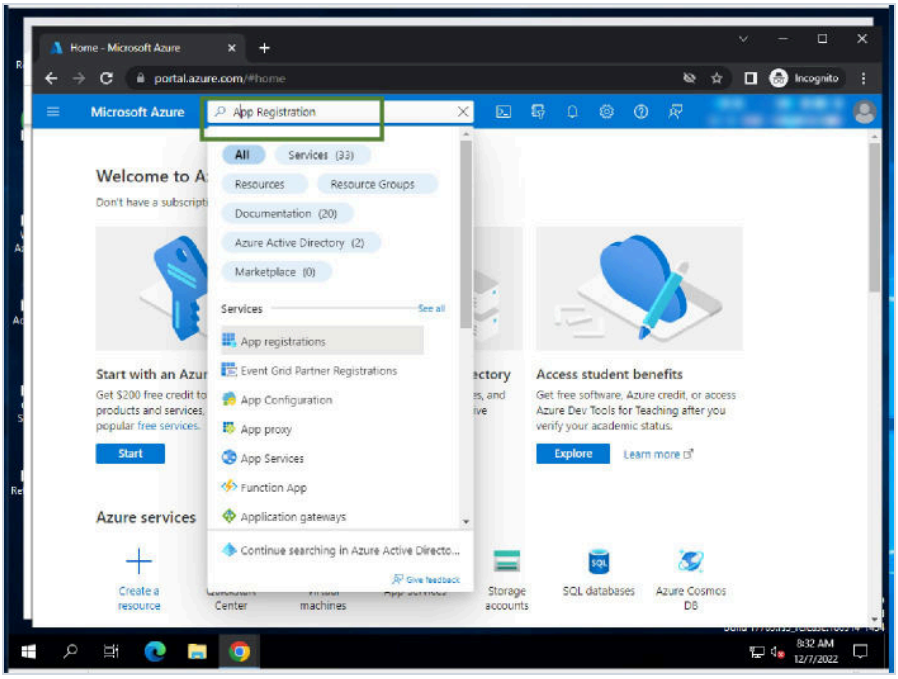


Figure 66. Search for App registrations.

4 Select **New registration**.

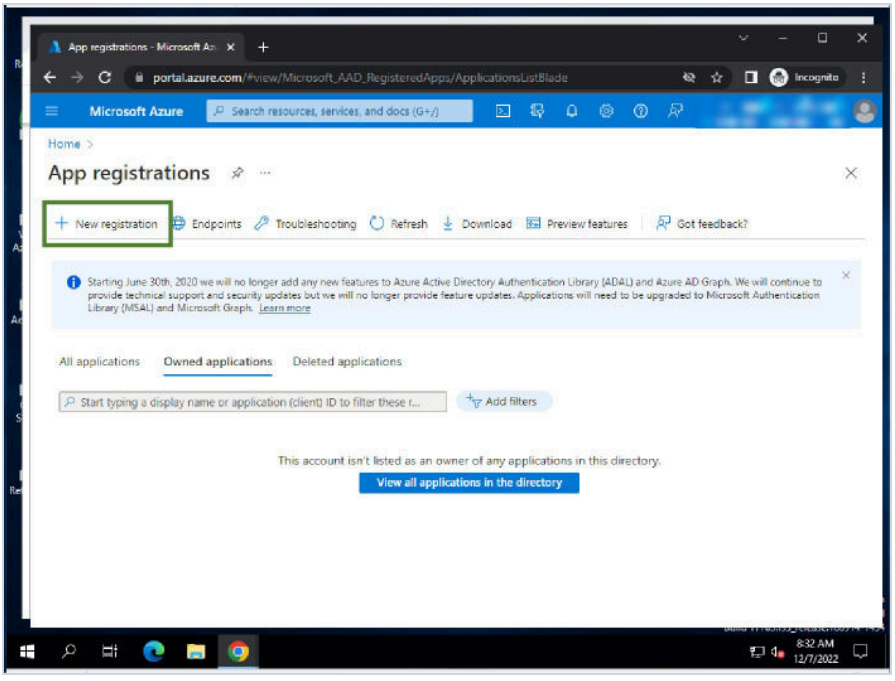


Figure 67. New registration.

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5 Enter a unique **Name**. Using the machine name, such as `DevRVM`, makes the app easy to find. Keep **Accounts in this organizational directory only**. Don't register yet: you need the redirect URL from IIS first.

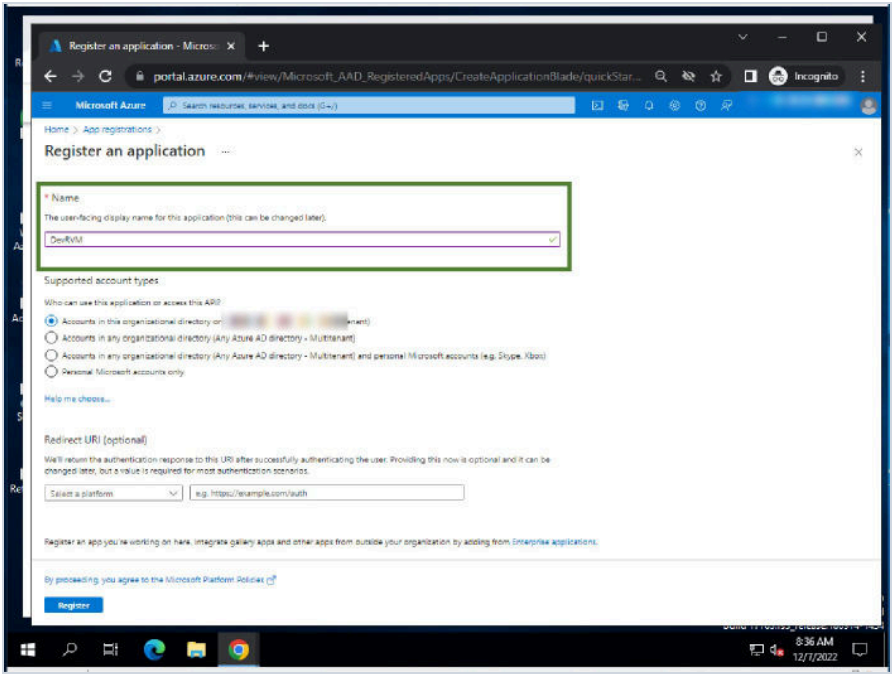


Figure 68. Name the app after the VM (tenant name hidden).

6 In the VM, search for and open **Internet Information Services (IIS) Manager**.

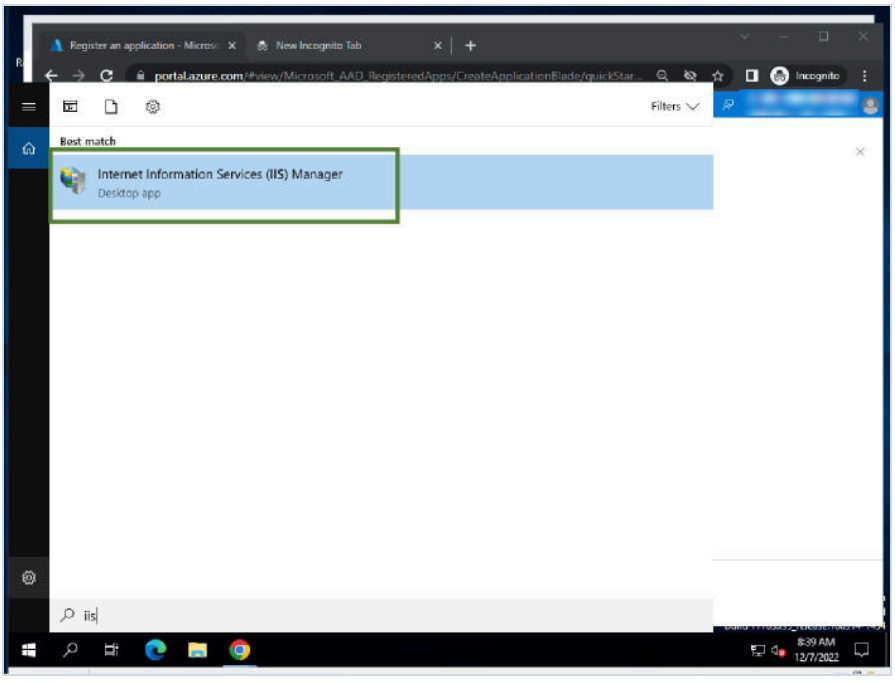


Figure 69. Open IIS Manager.

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7 Go to **<machine> → Sites → AOSService**. The URL is under **Browse Website** on the right.

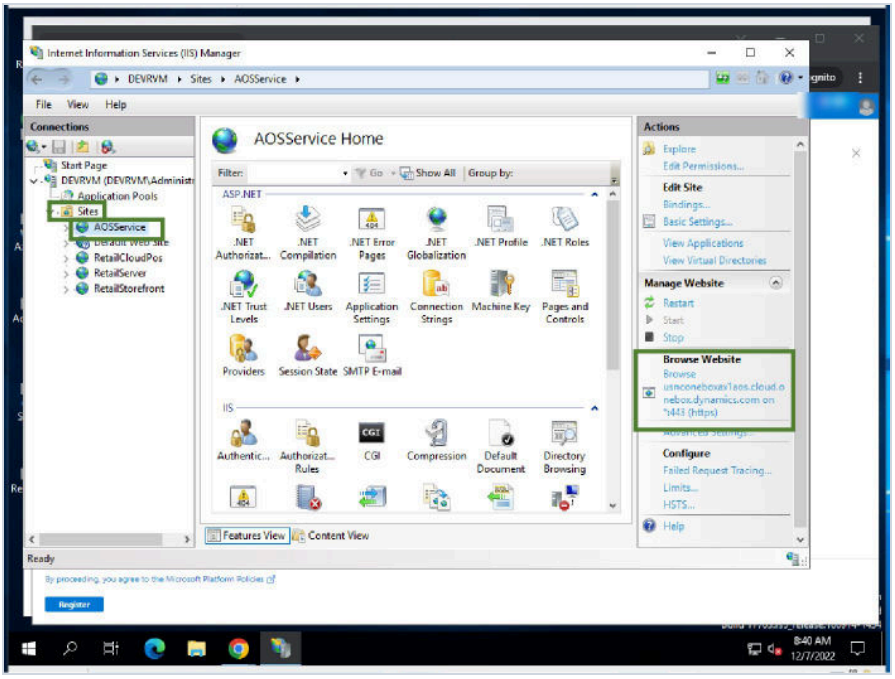


Figure 70. AOSService → Browse Website shows the URL.

8 Back in the portal, under **Redirect URI**, select platform **Web**, paste the URL and select **Register**.

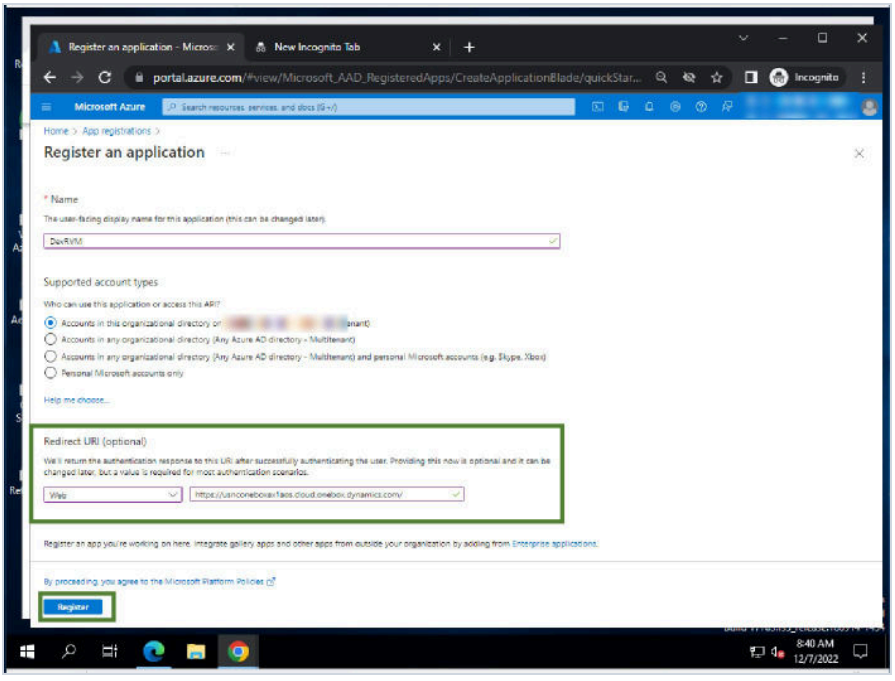


Figure 71. Web redirect URI, then Register.

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9 Optional: open **Certificates & secrets** and select **New client secret**.

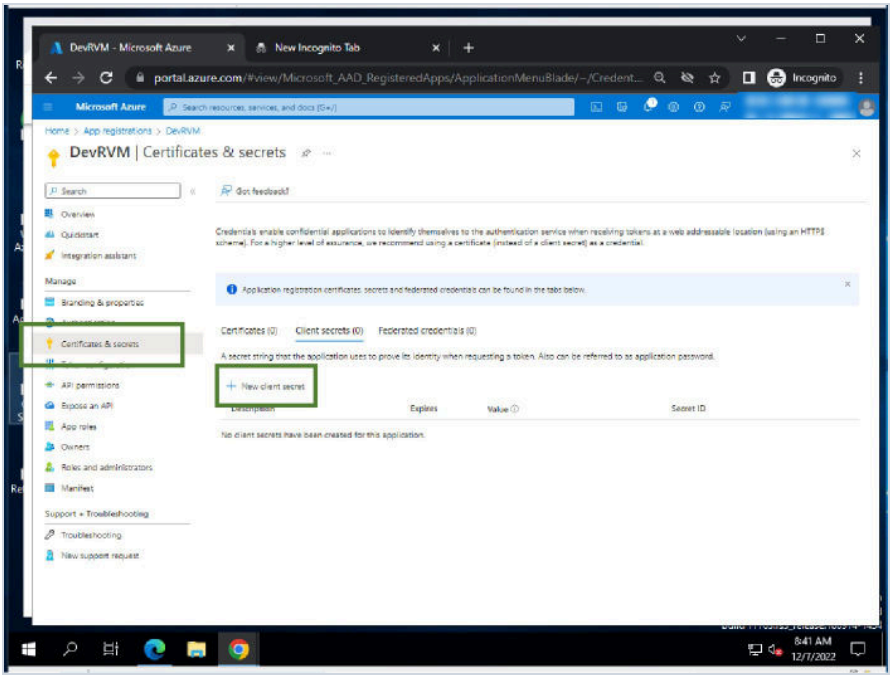


Figure 72. Certificates & secrets.

10 Enter a description, choose an expiry and select **Add**. Copy the secret value right away, because it's only shown once.

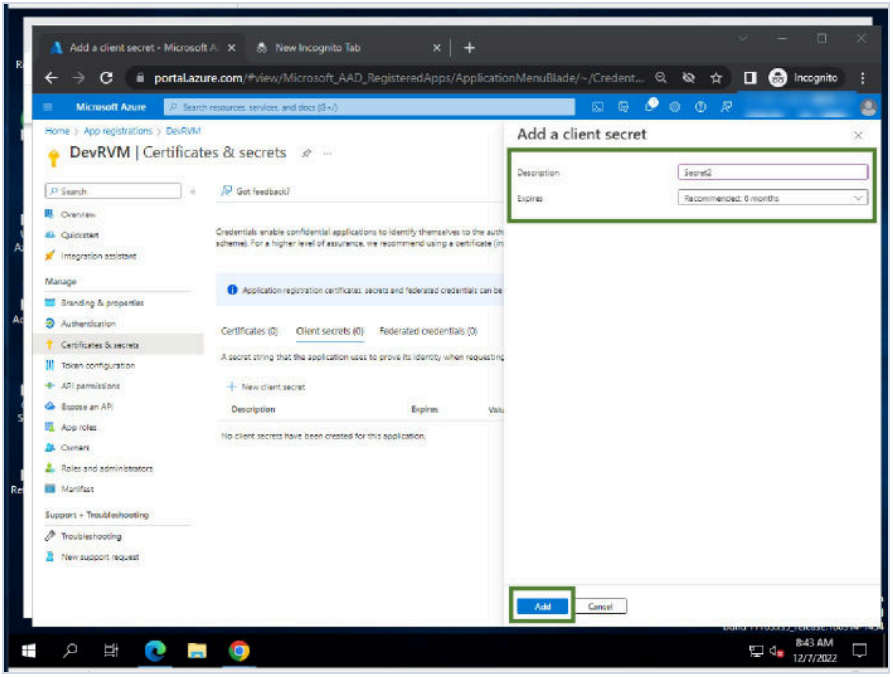


Figure 73. Add a client secret.

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11 Go to **Authentication** and select **Add URI**.

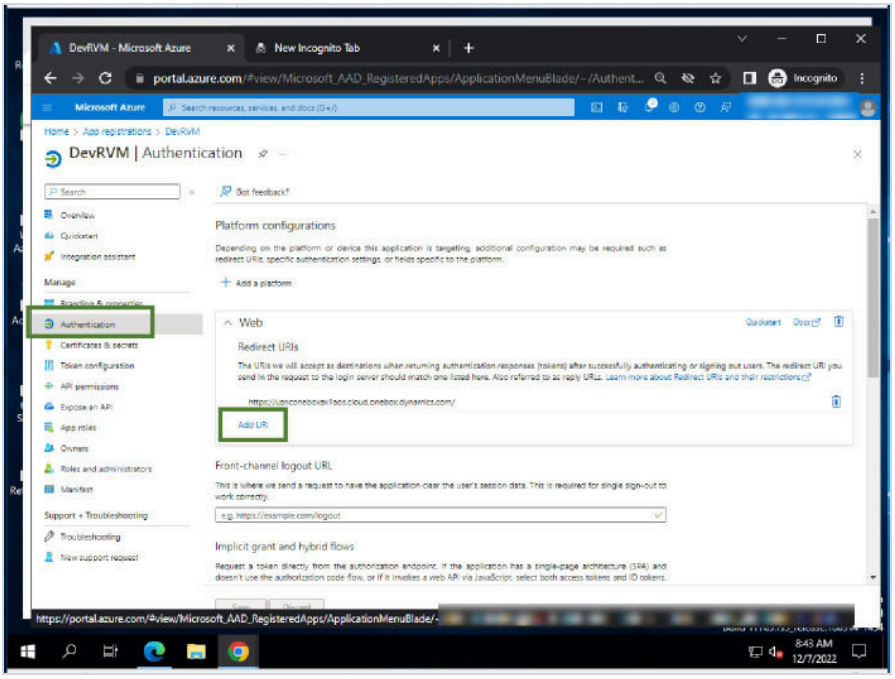


Figure 74. Authentication → Add URI (IDs in the status bar hidden).

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12 Add the same URL with `/oauth/` at the end, then select **Save**. The Web platform should end up with both redirect URIs:

REDIRECT URIS

```
https://usnconeboxax1aos.cloud.onebox.dynamics.com/
https://usnconeboxax1aos.cloud.onebox.dynamics.com/oauth/
```

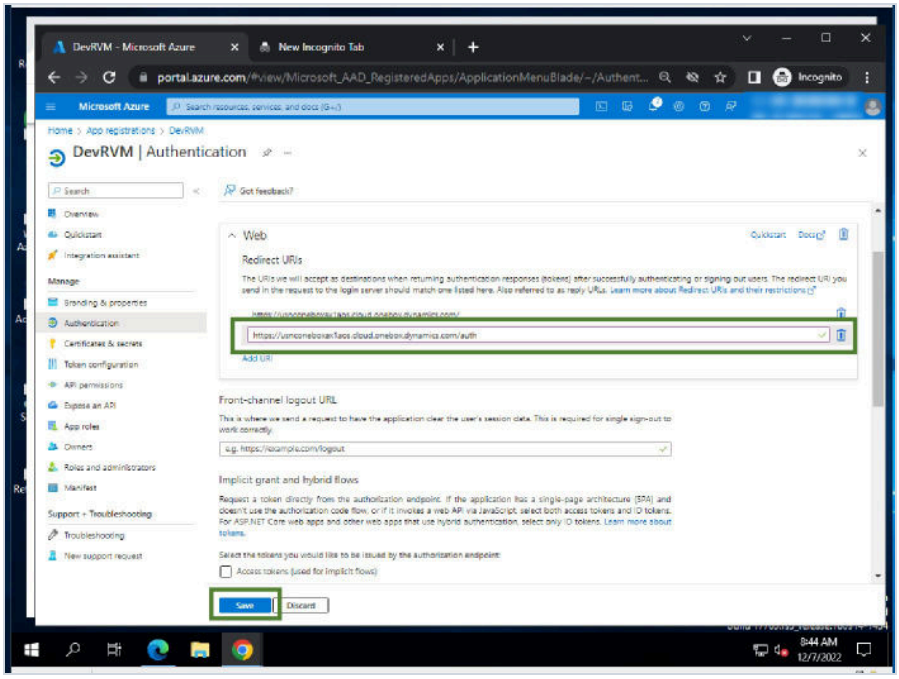


Figure 75. Add the second redirect URI and save.

The screenshot shows `/auth`. Use `/oauth/`, as in the box above and Microsoft's VHD setup documentation.

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13 On **Overview**, copy the **Application (client) ID**.

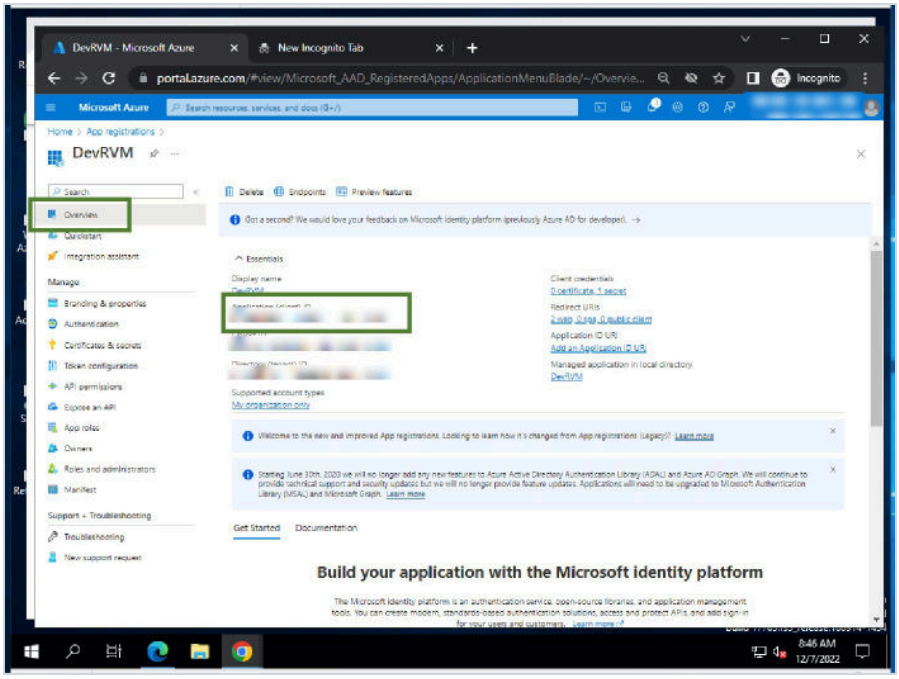


Figure 76. Copy the Application (client) ID (IDs hidden).

Copy the right ID

Use the **Application (client) ID**. Don't use the Object ID, the Directory (tenant) ID or a secret value.

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17 Generate self-signed certificates

1. On the VM desktop, right-click **Generate Self-Signed Certificates** and select **Run as administrator**.

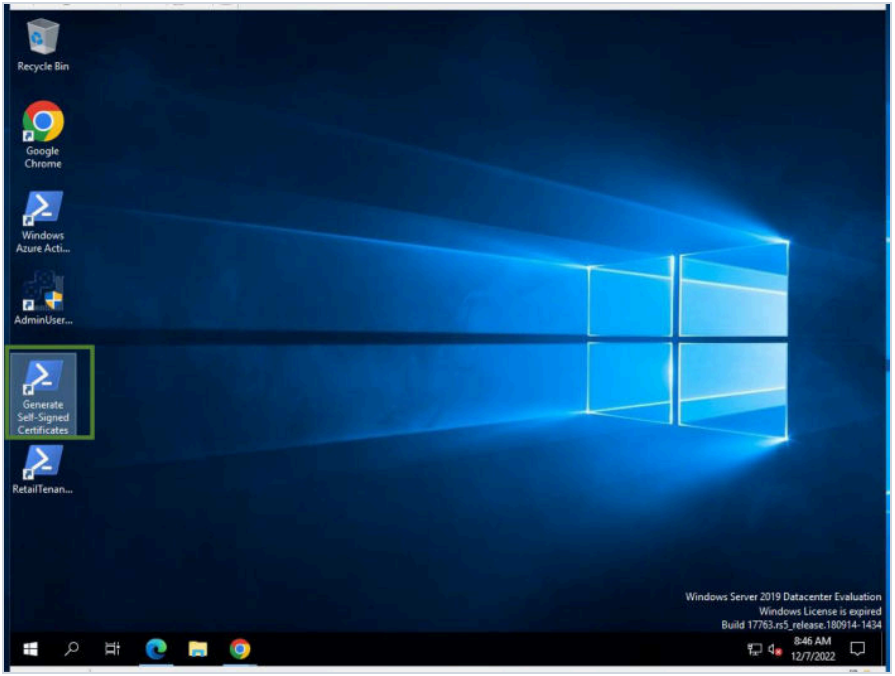


Figure 77. The Generate Self-Signed Certificates shortcut.

2. Paste the **Application (client) ID** you copied from the Azure portal. When asked whether you have an existing certificate, press **N** to create a new one.

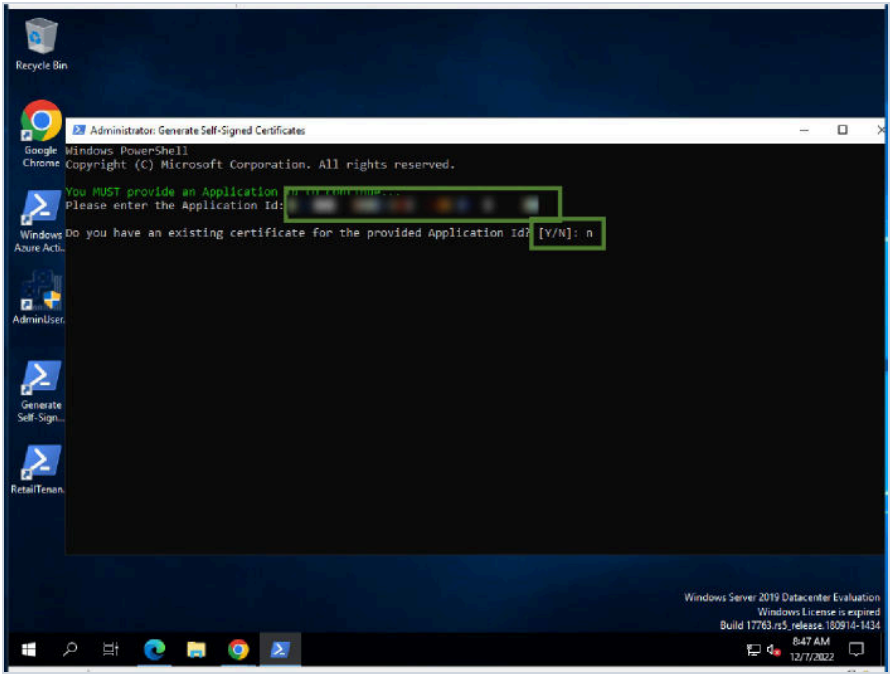


Figure 78. Enter the Application ID (hidden), then N.

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3 Wait while the script generates the certificates, updates the configuration and restarts the services. *Waiting for service* warnings are normal. It ends with *New self signed certificates have been generated*.

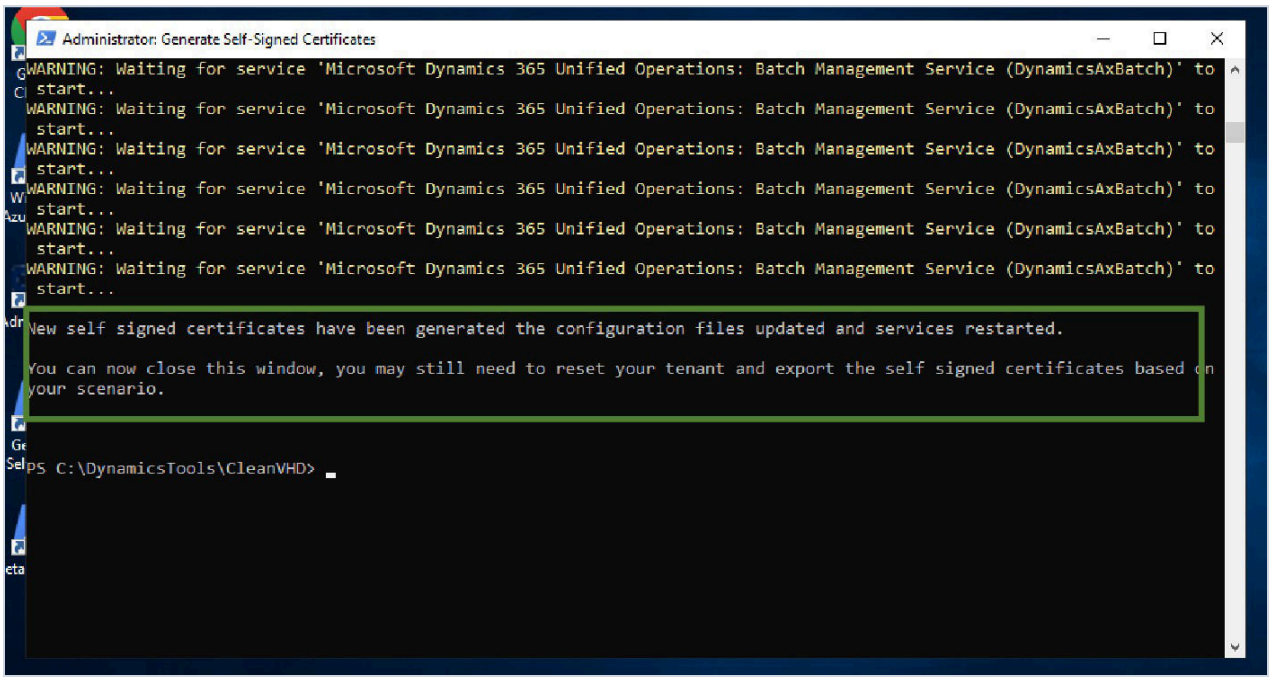


Figure 79. Certificates generated and services restarted.

18 Provision the administrator

1 On the desktop, right-click **AdminUserProvisioning** and select **Run as administrator**.

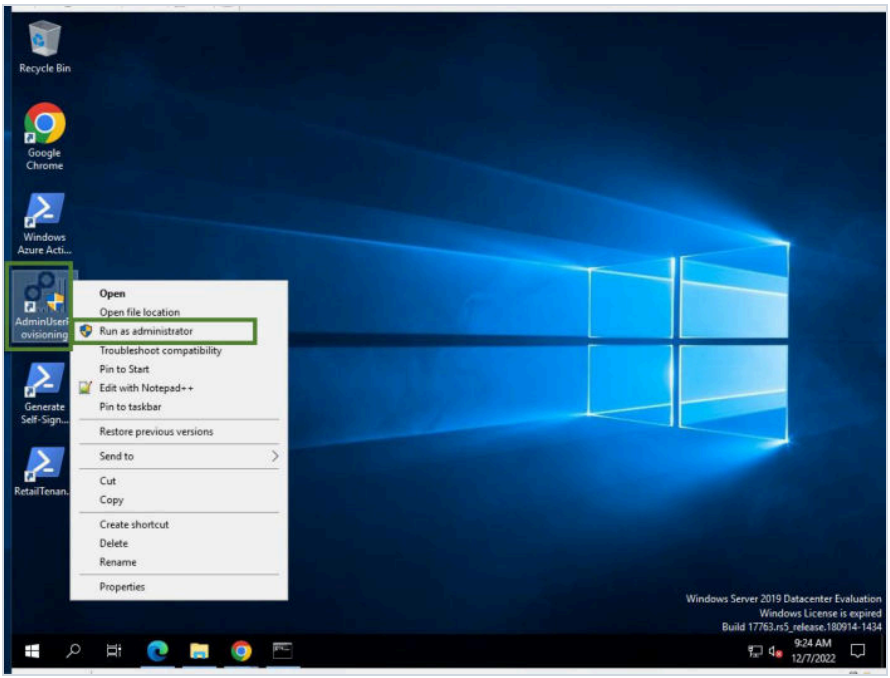


Figure 80. AdminUserProvisioning → Run as administrator.

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2. Enter the email address that should become the D365 administrator, keep the provider and select **Submit**. Use an account from the app registration's tenant.

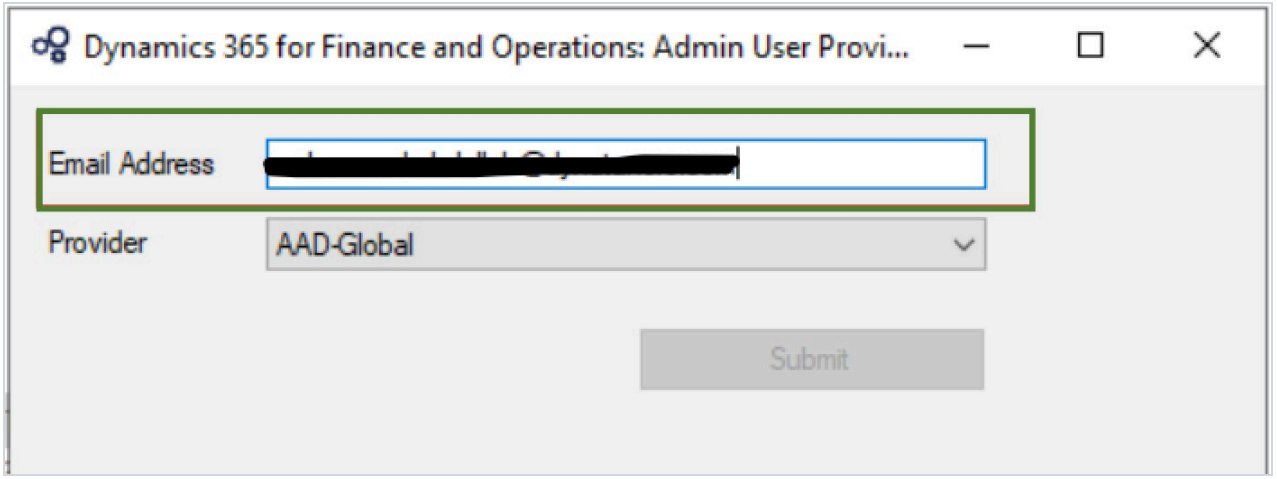


Figure 81. Enter the admin email (hidden).

3. Check that the message says *Admin user successfully updated to* your email.

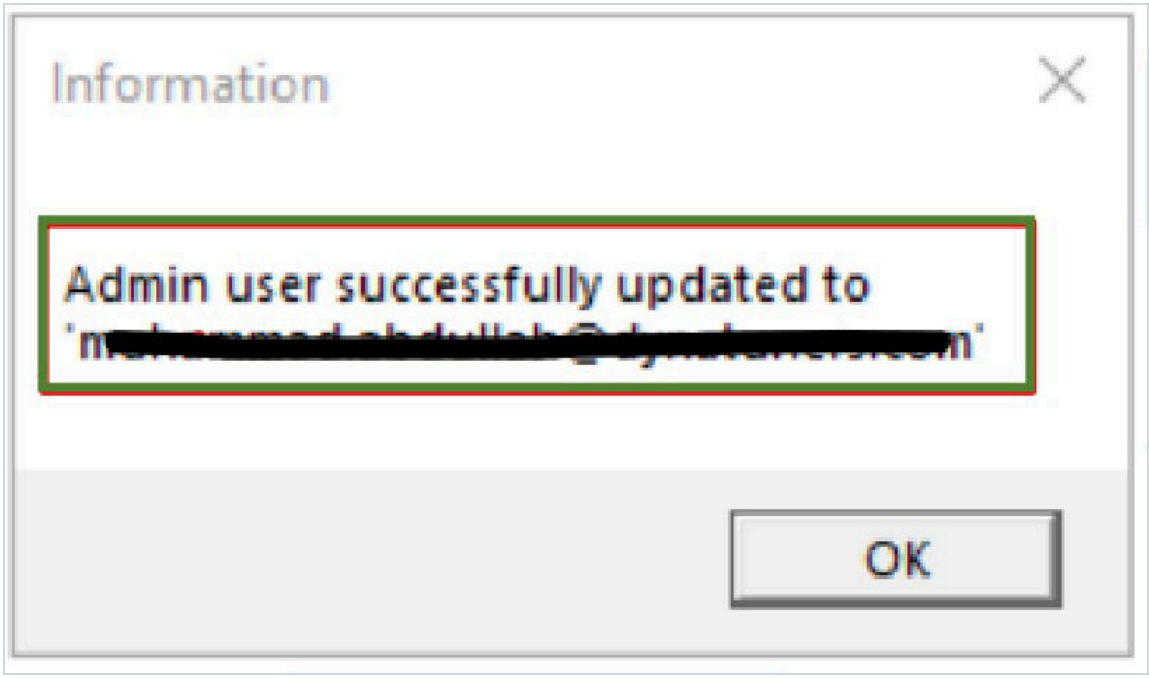


Figure 82. The admin user was updated.

Sign in. Open `https://usnconeboxax1aos.cloud.onebox.dynamics.com` in an InPrivate or incognito window and sign in as the provisioned administrator.

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19 Disable two services

After provisioning, disable two services that a single-developer VM doesn't need. This frees memory and CPU.

Display name	Service name
Management Reporter 2012 Process Service	`MR2012ProcessService`
Microsoft Dynamics 365 Unified Operations: Batch Management Service	`DynamicsAxBatch`

1. Press **Windows**, type **Services** and press **Enter**. Double-click **Management Reporter 2012 Process Service**.

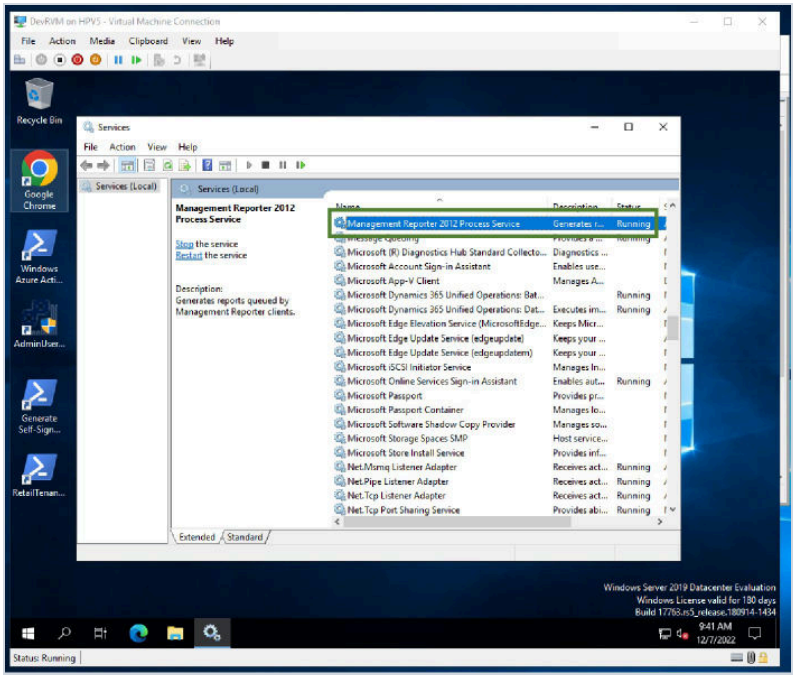


Figure 83. Management Reporter 2012 Process Service.

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2. Set **Startup type** to **Disabled**, select **Stop** if it's running, then **Apply** and **OK**.

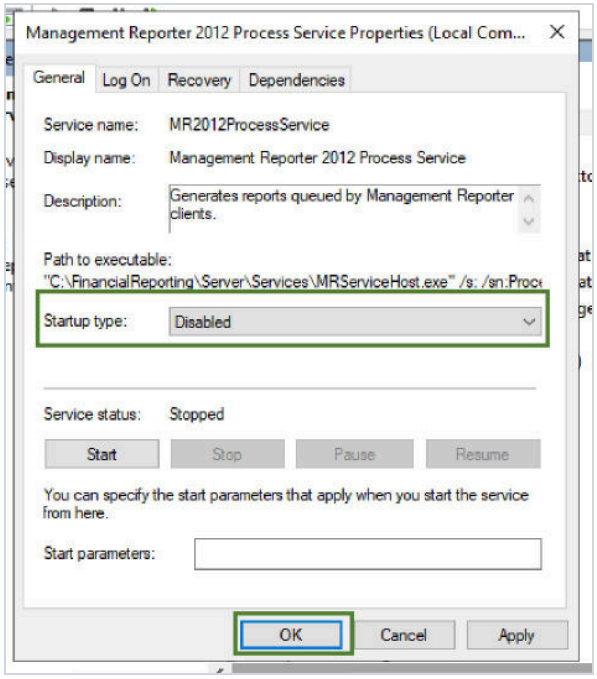


Figure 84. Startup type: Disabled.

3. Double-click **Microsoft Dynamics 365 Unified Operations: Batch Management Service**, the selected row.

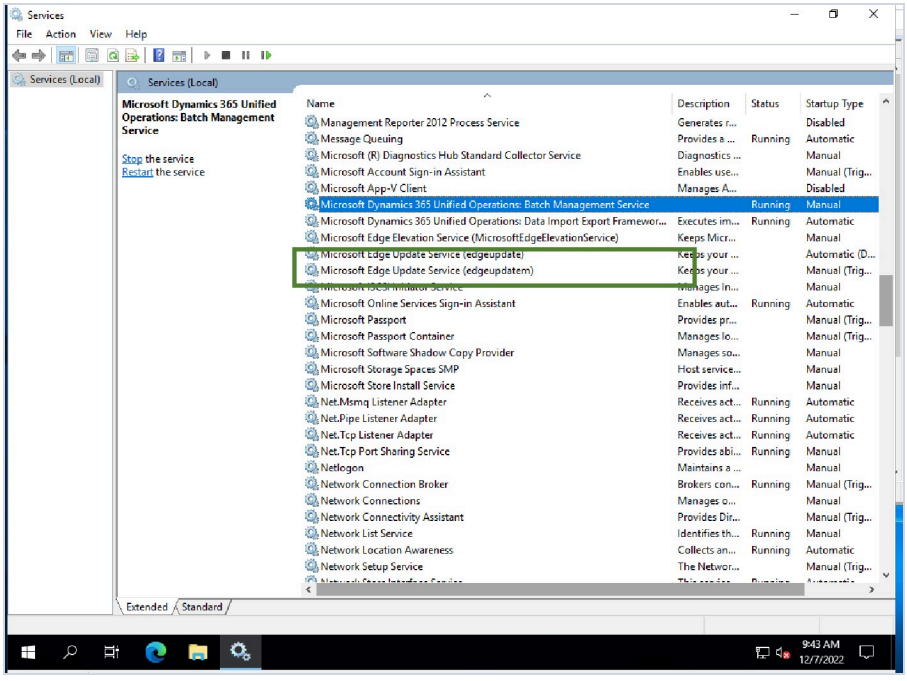


Figure 85. The Batch Management Service (selected row).

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4 Set **Startup type** to **Disabled**, stop the service, then select **Apply** and **OK**.

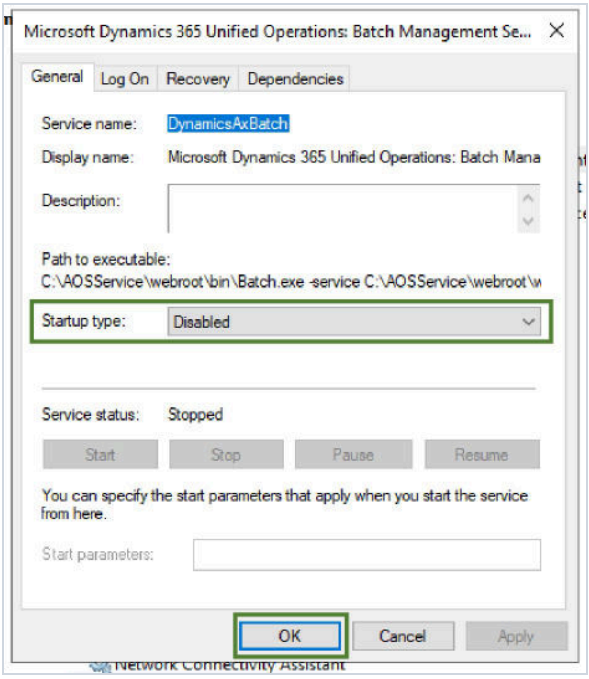


Figure 86. Startup type: Disabled.

POWERSHELL · RUN AS ADMINISTRATOR · SAME RESULT

```
Stop-Service -Name MR2012ProcessService, DynamicsAxBatch -Force
Set-Service  -Name MR2012ProcessService -StartupType Disabled
Set-Service  -Name DynamicsAxBatch      -StartupType Disabled
```

Batch jobs. With `DynamicsAxBatch` disabled, batch jobs don't run. Set it back to **Automatic** and start it when you need to test batch processing.

Final state

The VM runs on its own fixed disk with 24 GB and 6 CPUs. It has a new name and password, a rearmed licence, a static IP and a renamed SQL Server. It signs in through your Entra app with fresh certificates and a provisioned administrator. The two unneeded services are disabled.

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Quick run sheet

For experienced users. Print this page and tick each step. Full details are in the numbered sections.

	§	Step	Key setting / check
☐	2	RDP to the Hyper-V server	Server IP + credentials
☐	3	Download every VHD part from LCS	Shared asset library → Downloadable VHD
☐	4	Run part01, accept, extract	`FinandOps<version>.vhd`
☐	5	New hard disk	VHD · Fixed size · copy extracted VHD
☐	6	New virtual machine	Gen 1 · 24576 MB · switch · existing disk
☐	7	VM settings	6 CPUs · Guest services on · Backup off · no checkpoints
☐	8	Start, connect, sign in	Action → Ctrl+Alt+Delete · `pass@word1`
☐	9	Rename the machine, restart	Note the old `MININT-…` name
☐	10	Change the Administrator password	Change your password
☐	11	Rearm Windows, restart	`slmgr /rearm`
☐	12	Static IP and DNS	TCP/IPv4 properties
☐	13	Rename SQL Server, restart	`sp_dropserver` · `sp_addserver … local`
☐	14	Check SSRS database	SQL Server Name = `localhost`
☐	15	Install Chrome and Notepad++	—
☐	16	Entra app registration	Web: `…/` and `…/oauth/` · copy client ID
☐	17	Generate Self-Signed Certificates	Client ID · answer `N`
☐	18	AdminUserProvisioning	Entra email → *successfully updated*
☐	19	Disable two services	`MR2012ProcessService` · `DynamicsAxBatch`

If sign-in fails. Check that both redirect URIs are on the **Web** platform (section 16), and that the certificates were generated with the **client ID**, not the Object ID (section 17).

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Document information

Applies to	D365 Finance & Operations downloadable VHD (shown with 10.0.24) on a Windows Server Hyper-V host. Development and test environments only, never production.
Version	1.0, 30 September 2026: first release
Related guide	*Remove Demo Legal Entities from a D365 F&O Local OneBox* (restore Empty Data, DAT-only AxDB)

Official references

Set up the downloadable VHD for first use

learn.microsoft.com/…/dev-tools/vhd-setup

Register an application in Microsoft Entra ID

learn.microsoft.com/…/identity-platform/quickstart-register-app

Create a virtual machine in Hyper-V

learn.microsoft.com/…/hyper-v/get-started/create-a-virtual-machine-in-hyper-v

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Dynamics 365 Finance & Operations

Developer guide
Version 1.0
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