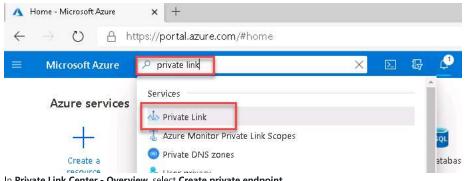
Module 3 - Lab 5 - Create a Private Endpoint

In this task, you will create a private endpoint.

1. In the Azure Portal, search for and select Private Link

 A Private Endpoint is the fundamental building block for private link in Azure. It enables Azure resources, like Virtual Machines (VMs), to communicate privately with private link resources. In this Lab, you will learn how to create a VM on an Azure Virtual Network, a logical SQL server with an Azure private endpoint using the Azure portal. Then, you can securely access SQL Database from the VM. Task 1: Sign in to Azure 1. Sign in to the Azure portal 👔 https://portal.azure.com with the credentials https://portal.azure.c 2. A virtual machine and VNet have already been created for you. 3. Install SQL Server Management Studio from the following URL: https://docs.microsoft.com/sql/ssms/download-sql-server-management-studio-ssms? view=sql-server-2017) A Note: You do not need to wait for SQL Management Studio to install before continuing. Task 2: Create a logical SQL server In this task, you will create a logical SQL server in Azure. 1. On the upper-left side of the screen in the Azure portal, select Create a resource > Databases > SQL database. 2. In Create SQL database - Basics, enter or select this information: Setting Value **Database details** Subscription CloudShare1 Resource group myResourceGroup-N9BWZQT1YZ **INSTANCE DETAILS** Database name Enter mydatabase. If this name is taken, create a unique name. 3. In Server, select Create new. 4. In New server, enter or select this information: Setting Server name Enter myserver. If this name is taken, create a unique name. Server admin login **SQLAdmin** Password xMOC7QbeZ3Q2lGlu Location East US 5. Select **OK**. 6. Select Review + create. You're taken to the Review + create page where Azure validates your configuration. 7. When you see the Validation passed message, select **Create**. Task 3: Create a private endpoint



- 2. In Private Link Center Overview, select Create private endpoint.
 - 3. In Create a private endpoint Basics, enter or select this information:

Setting	Value
Project details	
Subscription	CloudShare1
Resource group	myResourceGroup-N9BWZQT1YZ
INSTANCE DETAILS	
Name	Enter myPrivateEndpoint. If this name is taken, create a unique name.
Region	Select EastUS.

- 4. Select Next: Resource.
- 5. In **Create a private endpoint Resource**, enter or select this information:

Setting	Value
Connection method	Connect to an Azure resource in my directory
Subscription	your subscription
Resource type	Microsoft.Sql/servers.
Resource	Unique database name created previously
Target sub-resource	sqlServer

- 6. Select **Next: Configuration**.
- 7. In **Create a private endpoint Configuration**, enter or select this information:

Setting	Value
NETWORKING	
Virtual network	MyVNet.
Subnet	mySubnet.
PRIVATE DNS INTEGRATION	
Integrate with private DNS zone	Yes
Private DNS Zone	(New) privatelink. database. windows.net

▲ MyVNet can take upto 15 minutes to show under virtual network.

- 1. Select **Review + create**. You're taken to the **Review + create** page where Azure validates your configuration.
- 2. When you see the **Validation passed** message, select **Create**.

Task 4: Connect to a VM using Remote Desktop (RDP)

- 1. In the portal's search bar, enter myVm.
- 2. Select the Connect button. After selecting the Connect button, Connect to virtual machine opens.
- 3. Select **Download RDP File**. Azure creates a Remote Desktop Protocol (.rdp) file and downloads it to your computer.
- 4. Open the downloaded.rdp file.
 - 1. If prompted, select **Connect**.

	2. Enter the username <u>f</u>	calAdmin and password hhdzF87FqAsjNMqE	
	A Note: You may nee VM.	ed to select More choices > Use a different account , to specify the credentials you entered when you created the	
5. Select	ОК.		
6. You m	6. You may receive a certificate warning during the sign-in process. If you receive a certificate warning, select Yes or Continue .		
7. Once	the VM desktop appears, m	inimize it to go back to your local desktop.	
Task 5: Acc	ess SQL Database priv	vately from the VM	
1. In the Remote Desktop of <i>myVM</i> , open PowerShell.			
2. Enter	the following command and	replace myserver with your unique name	
L li	nslookup myserver.database.windows.net		
You'll	You'll receive a message similar to this:		
3. Open	Non-authoritative answer: Name: myserver.private! Address: 10.0.0.5 Aliases: myserver.databa SQL Server Management Sunect to server, enter or sel	Studio.	
Setti	ng	Value	
Serve	er type	Database Engine.	
Serve	er name	myserver.database.windows.net (replacing myserver with your unique name)	
Auth	entication	SQL Server Authentication	
User	name	SQLAdmin SQLAdmin	
Passy	word	xMOC7QbeZ3Q2lGlu	
Rem	ember password	Select Yes .	
5. Select	Connect.		
6. Brows	e databases from left menu.		
7. Close	the remote desktop connec	tion to <i>myVm</i> .	
		rirtual network, a logical SQL server, and a private endpoint for private access. You connected to one VM from the	