

DBXL v3.3 AZURE INSTALLATION GUIDE

Thank you for downloading DBXL v3.3. The goal of this document is to guide you in a step-by-step walkthrough on how to install DBXL on Windows Azure.

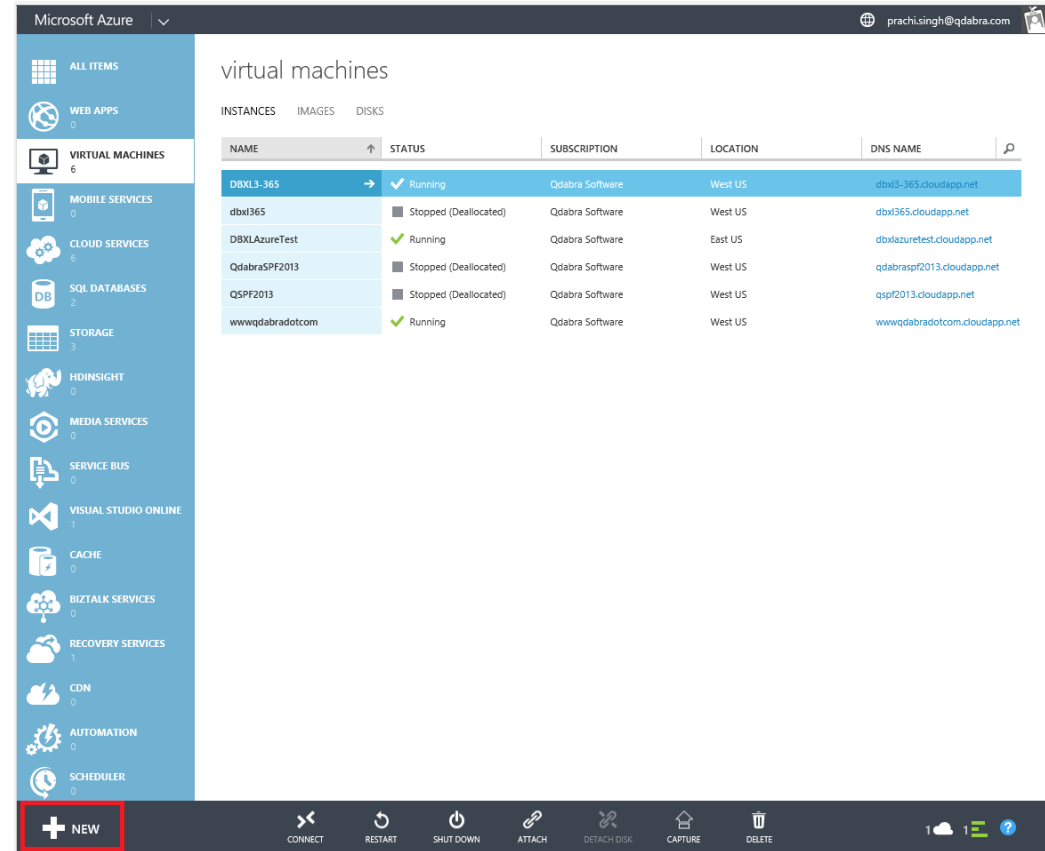
If you are upgrading from a previous version of DBXL, please contact [Qdabra support](#).

Contents

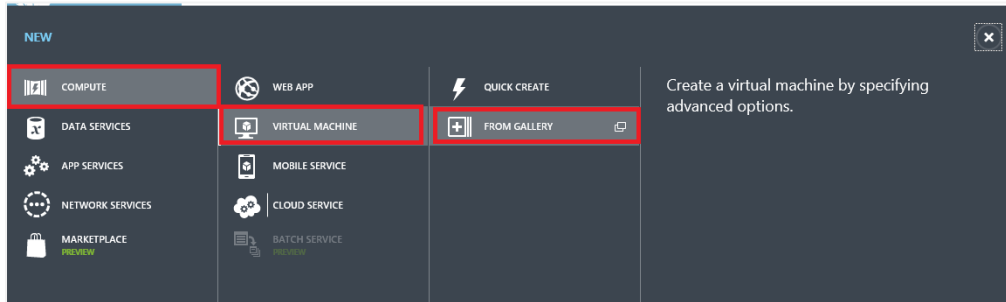
- ADDING A VIRTUAL MACHINE ON MICROSOFT AZURE 1
- REMOTE DESKTOP CONNECTION TO THE VIRTUAL MACHINE 7
 - CONFIGURE SERVER MANAGER 9
 - INSTALL THE WEB SERVICE (IIS) AND .NET FRAMEWORK 3.5 15
 - SQL SERVER EXPRESS 2014 INSTALLATION 21
- DBXL 3.3 INSTALLATION 29
 - CONFIGURE QUERYDBWITHUSERKEY 36
 - ADD A USER ACCOUNT 38
 - GENERATE A KEY FOR THE NEW USER ACCOUNT 40
 - USING QUERYDBWITHUSERKEY SERVICE 42
- STEPS FOR TROUBLESHOOTING 44

ADDING A VIRTUAL MACHINE ON MICROSOFT AZURE

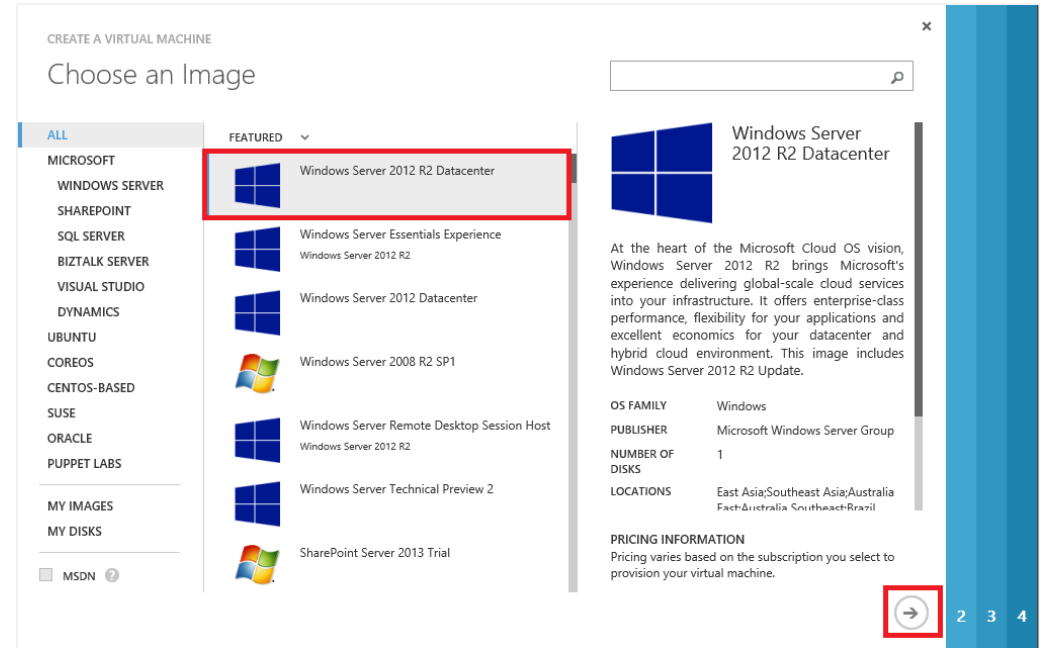
1. Login to your Microsoft Azure site.
2. Create a new Virtual Machine instance by clicking on the **New** button.



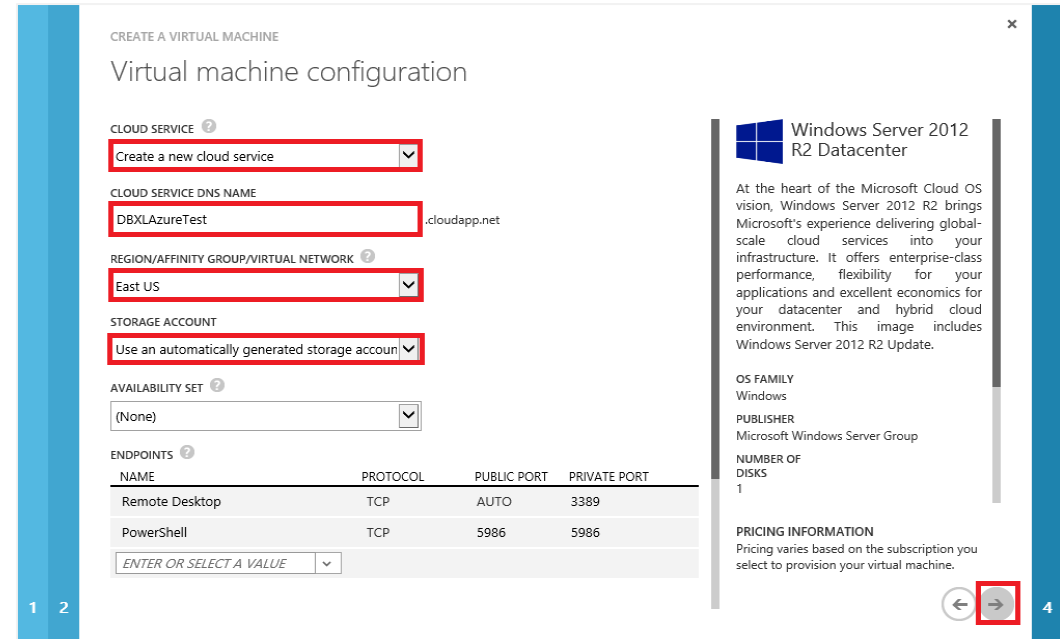
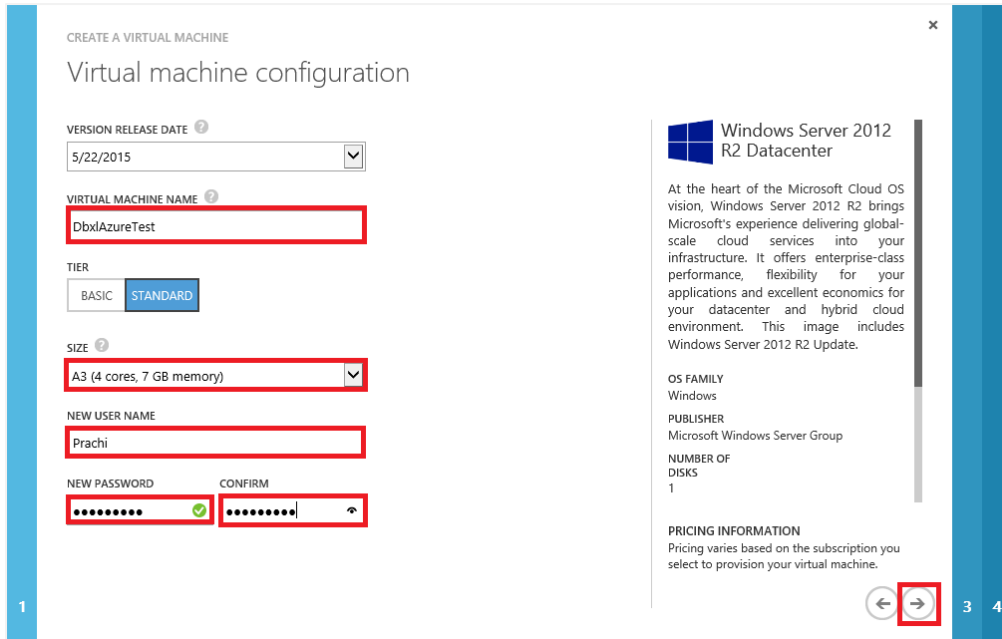
3. A new window will pop-up. Select **Compute > Virtual Machine > From Gallery**.



4. On the next screen, select **Windows Server 2012 R2 Datacenter** and click on the right-arrow (→) sign.



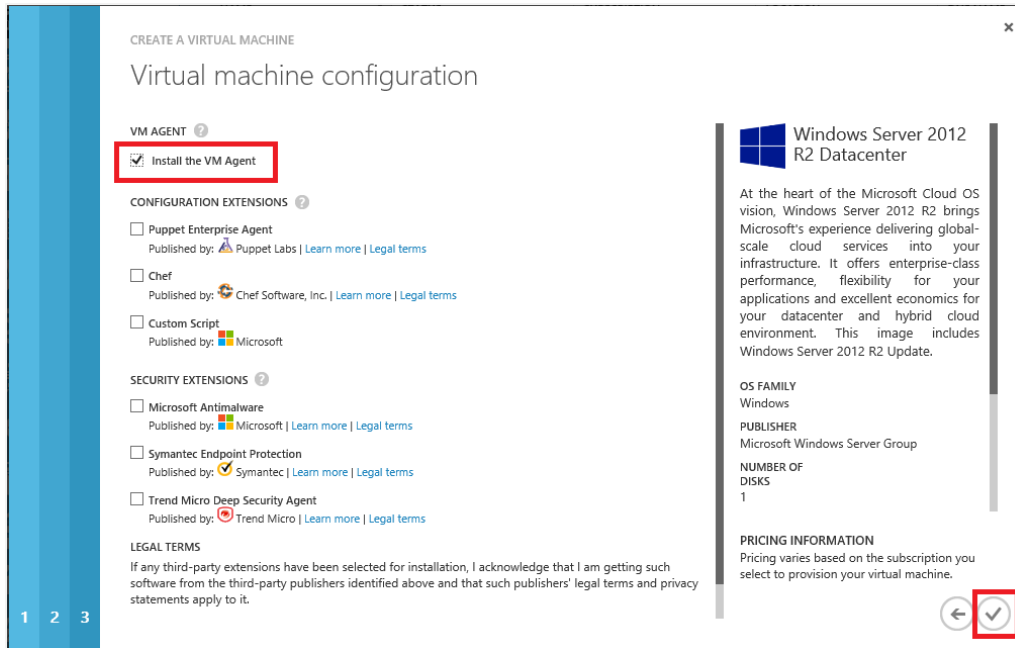
5. On the next screen,
 - **Virtual Machine Name** - enter the name for your Virtual Machine
 - **Tier** – Standard
 - **Size** – Select A3 from the drop-down
 - **New User Name** – Enter the username
 - **New Password** – Enter a Password and confirm it.
6. Click on the right-arrow (→) sign to go to the next screen.



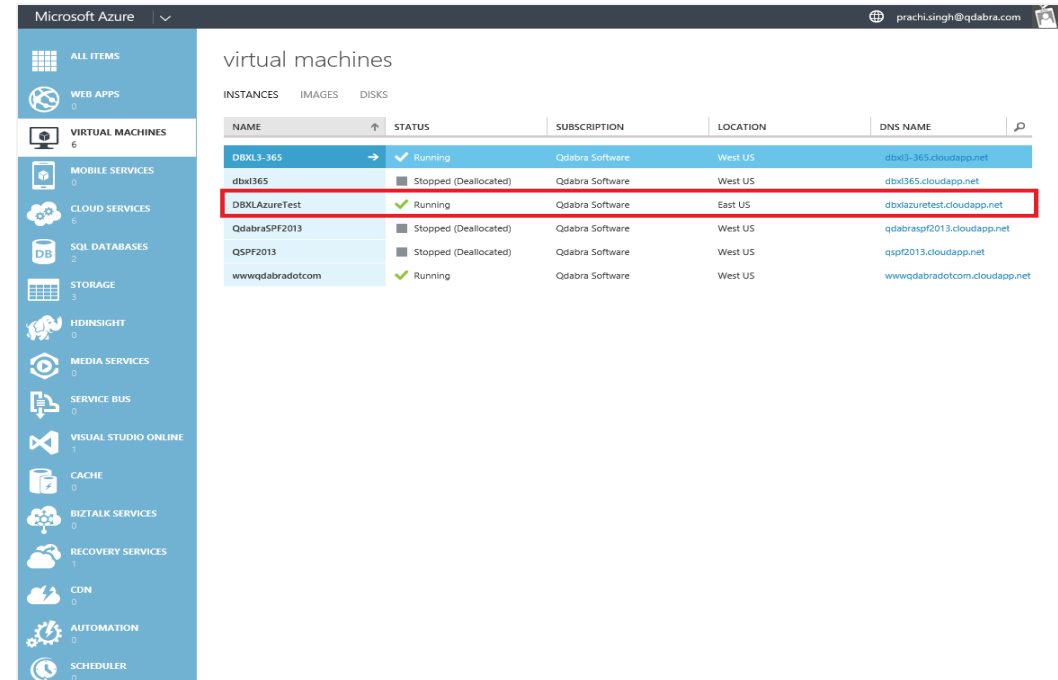
7. On the next screen,
 - **Cloud Service** – Select “*Create a new cloud service*”
 - **Cloud Service DNS Name** – Give the Virtual Machine name
 - **Region/Affinity Group/Virtual Network** – Select a region for your virtual network
 - **Storage Account** – Select “*Use automatically generated storage account*”

8. Click on the right-arrow (→) sign.

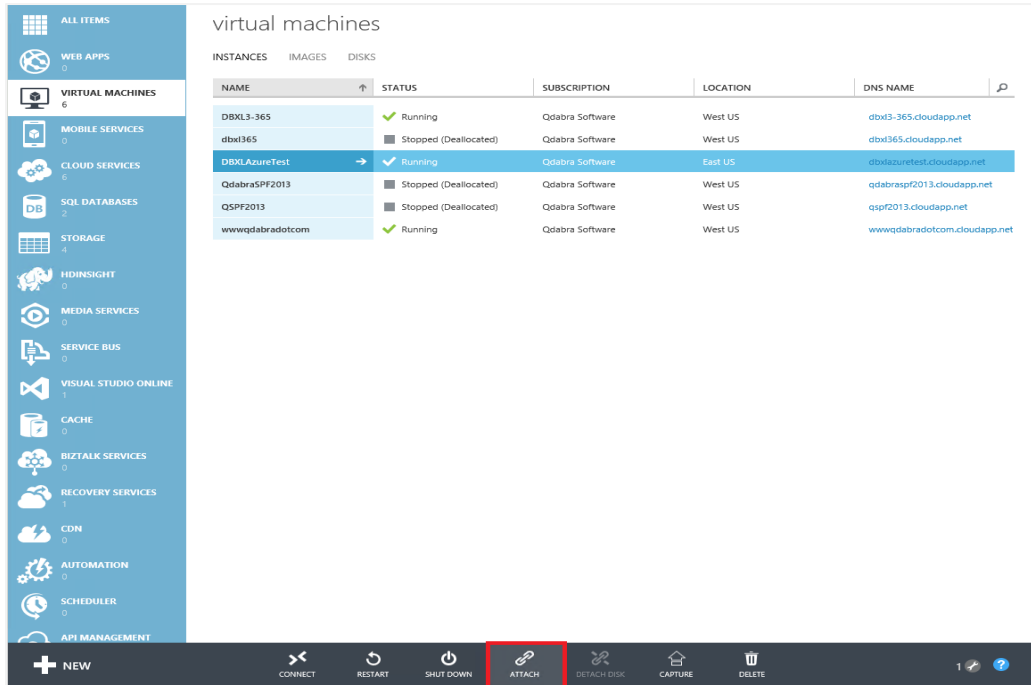
9. On the following screen, check the box next to **Install the VM Agent** and click on the tick-mark.



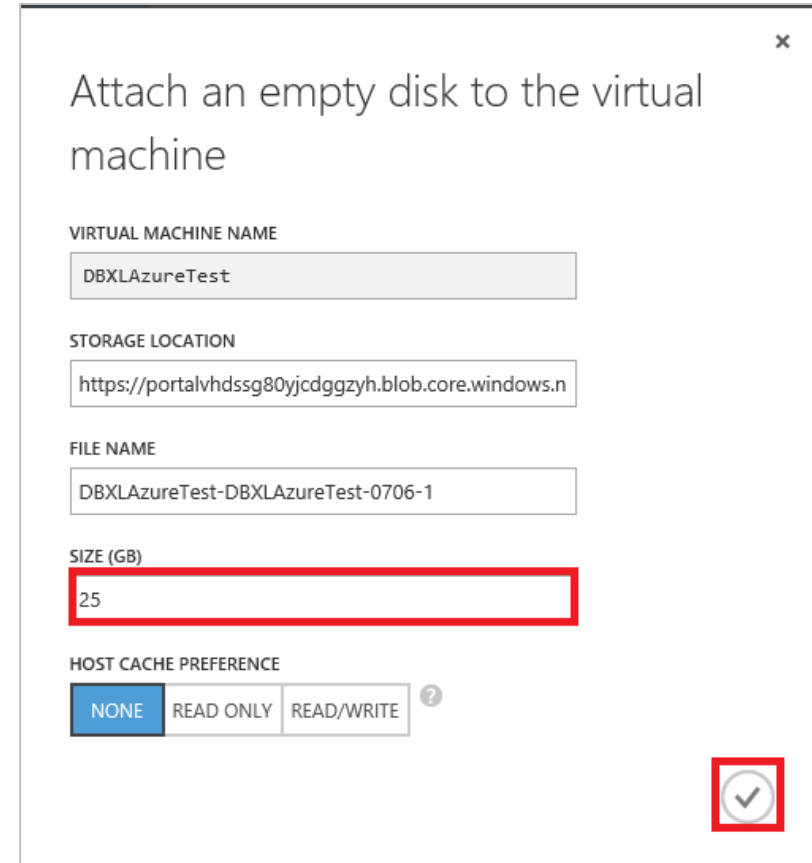
10. You will find the Virtual Machine instance *Starting*. After sometime its Status changes to *Running*.



11. Now, select your Virtual Machine and click on **Attach** at the bottom of the screen, to attach an empty disk to your virtual machine.



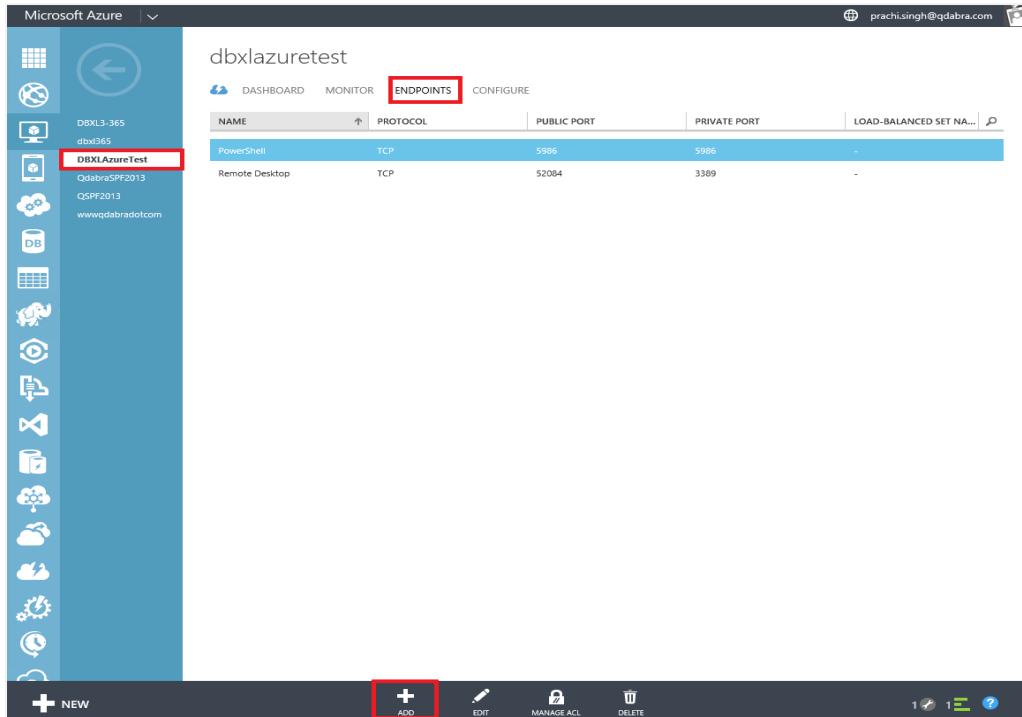
12. On the dialog box that appears, give the disk **Size** in GB. Click on the Tick-mark sign.



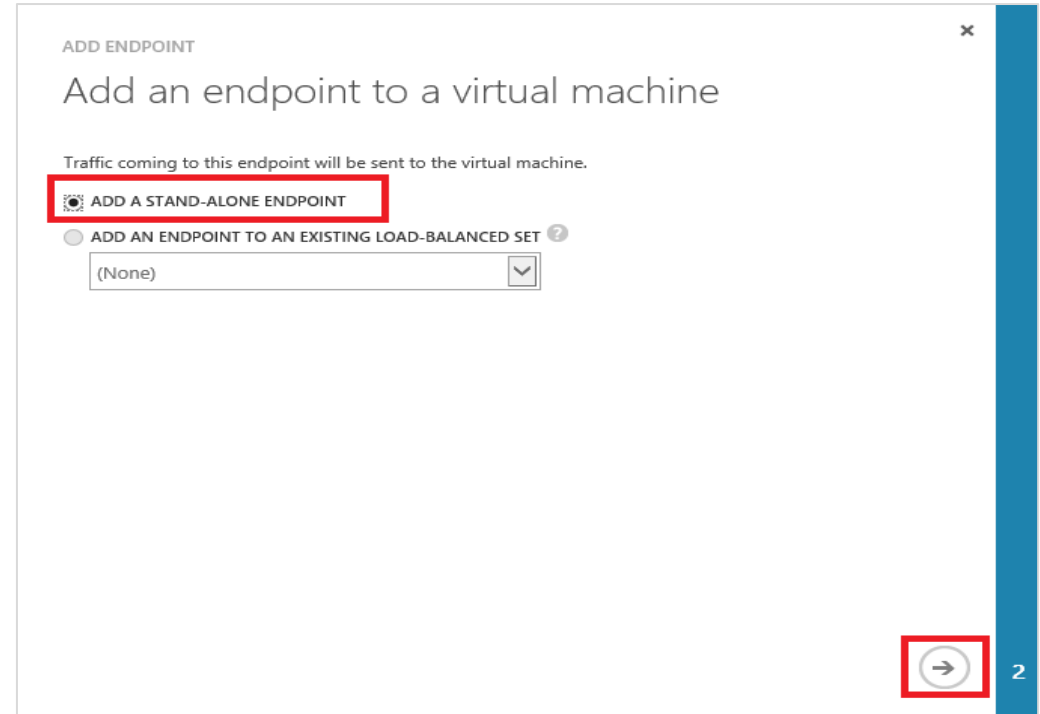
13. Now, we will add the EndPoints. Go to the *Dashboard* and click on the right-arrow.

14. Click on *EndPoints*.

15. Click on **Add** at the bottom of the screen.



16. A window pops-up to add an endpoint to your virtual machine. Click on *Add A Stand-alone Endpoint* and Click on right-arrow (→)



17. Select HTTP for the Endpoint name and click on the tick-mark.

ADD ENDPOINT ×

Specify the details of the endpoint

NAME

PROTOCOL

PUBLIC PORT

PRIVATE PORT

CREATE A LOAD-BALANCED SET ?

ENABLE DIRECT SERVER RETURN ?

REMOTE DESKTOP CONNECTION TO THE VIRTUAL MACHINE

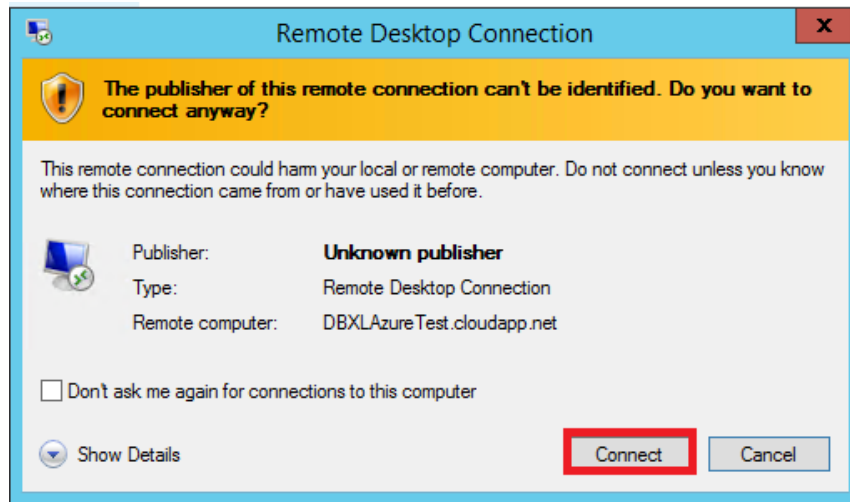
- Once the disk is attached and the status is Running, select the Virtual Machine and click on **Connect**.

NAME	STATUS	SUBSCRIPTION	LOCATION	DNS NAME
DBXL3-365	Running	Qdabra Software	West US	dbxl3-365.cloudapp.net
dbxl365	Stopped (Deallocated)	Qdabra Software	West US	dbxl365.cloudapp.net
DBXL AzureTest	Running	Qdabra Software	East US	dbxlazuretest.cloudapp.net
QdabraSPF2013	Stopped (Deallocated)	Qdabra Software	West US	qdadbrasprf2013.cloudapp.net
QSPF2013	Stopped (Deallocated)	Qdabra Software	West US	qsp2013.cloudapp.net
wwwqdadradotcom	Running	Qdabra Software	West US	wwwqdadradotcom.cloudapp.net

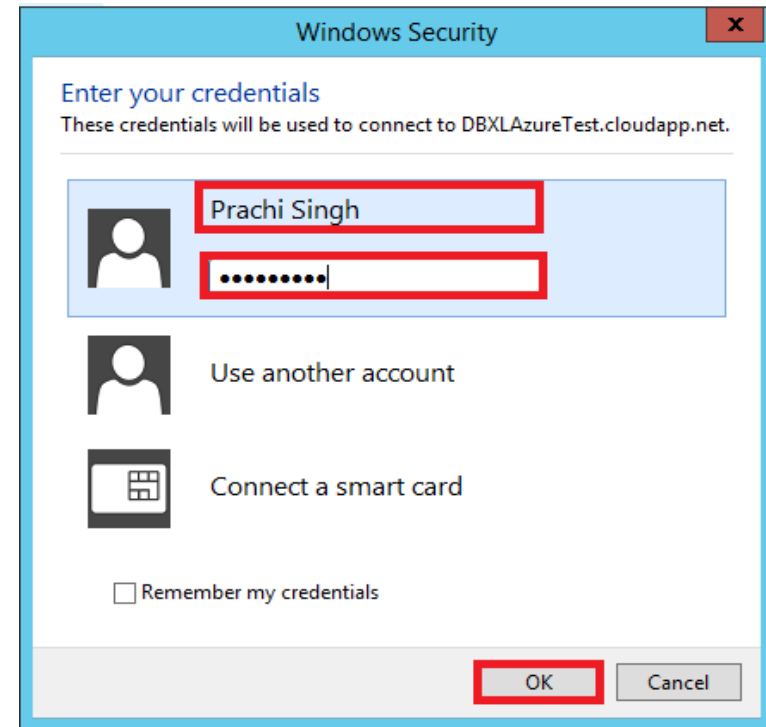
- A dialog box appears at the bottom of the screen asking, "Do you want to open or save <YourVirtualMachine>.rdp." Click **Open**.

Do you want to open or save DBXL AzureTest.rdp (79 bytes) from manage.windowsazure.com?

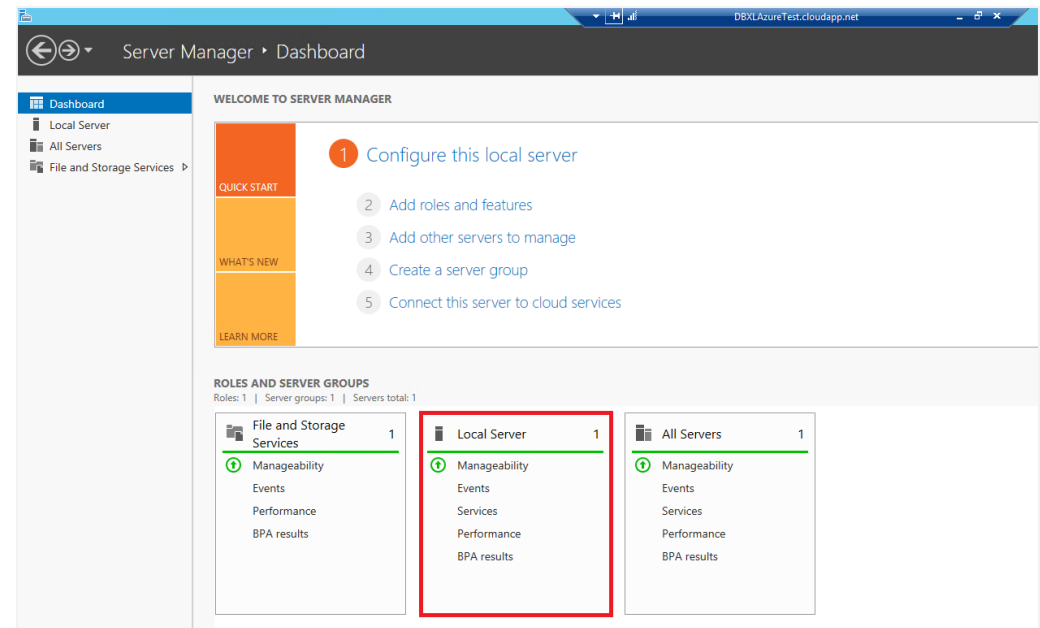
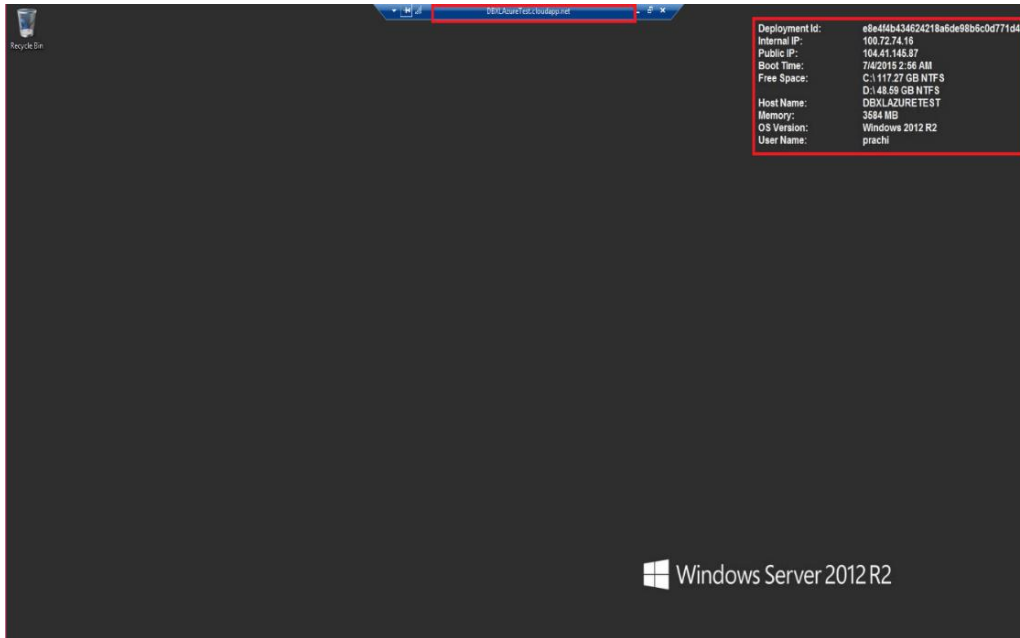
3. Click **Connect** on the following *Remote Desktop Connection* dialog box, to connect to your Virtual Machine.



4. Enter the credentials (*Username and Password*) for the Remote Desktop that you entered while configuring this Virtual Machine. Click **OK**.



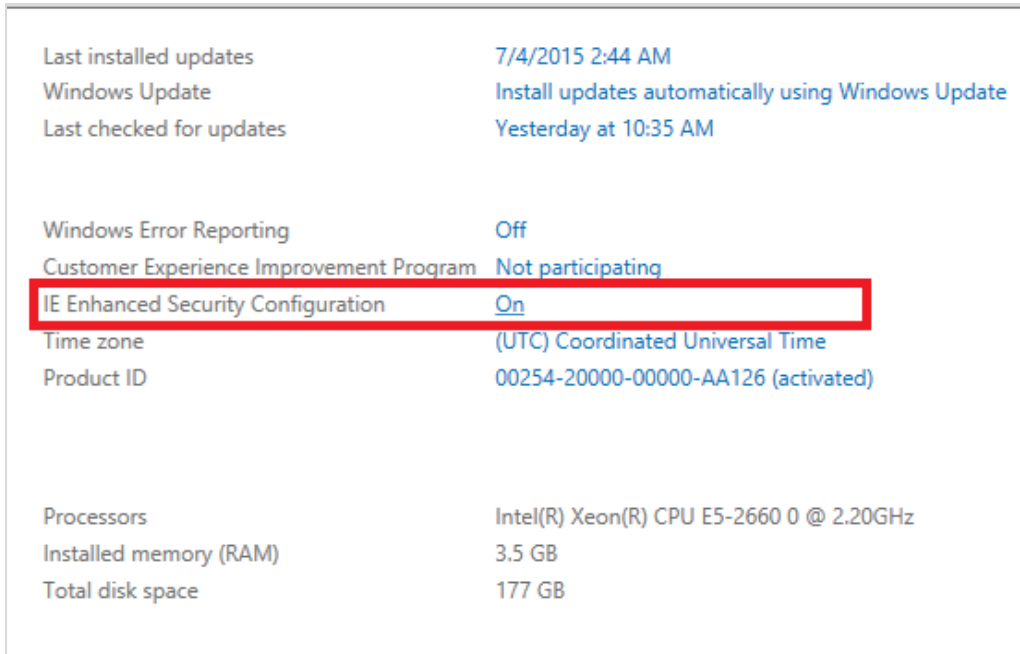
5. A remote desktop connection will be established with your Virtual Machine name. More information about the machine (IP, Free space, Memory etc.) is displayed at the top right corner.



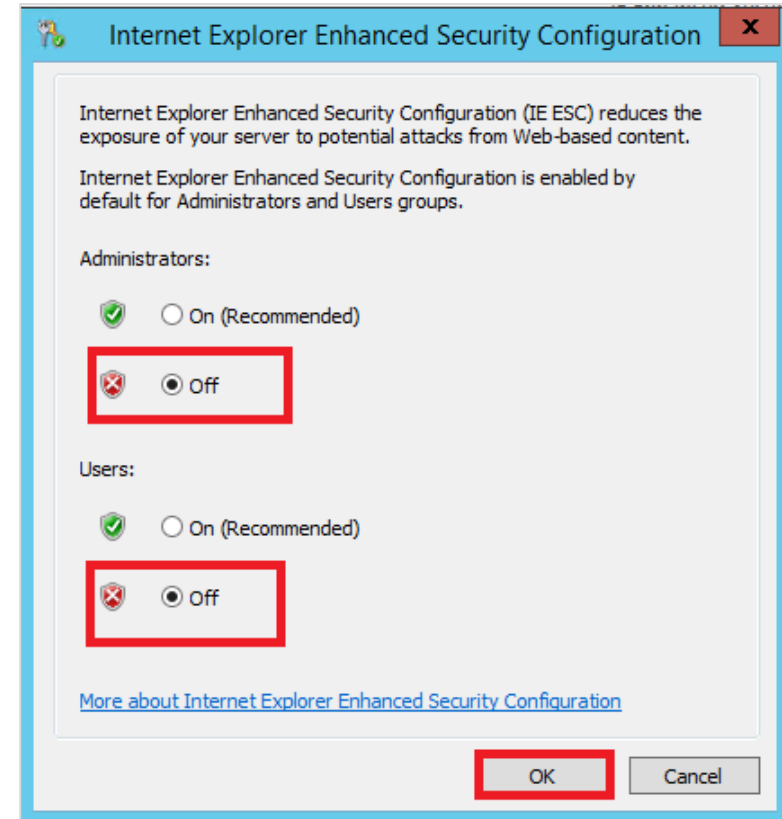
3. On the right-side of the screen, search for *IE Enhanced Security Configuration*. Click on **On**.

CONFIGURE SERVER MANAGER

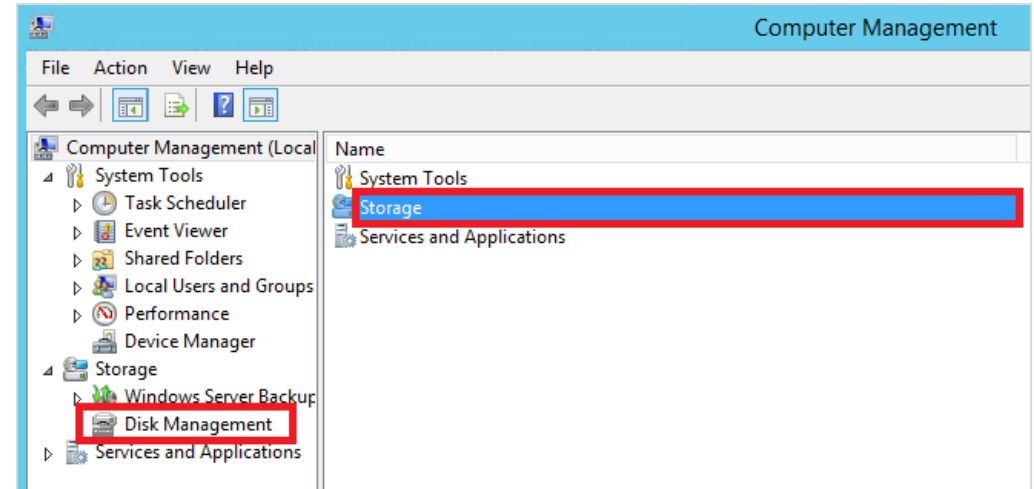
1. Once the site has been added to your Trusted Sites, open the **Server Manager** on the Virtual Machine.
2. Click on the Local Server.



4. Turn-off both the *Administrator* and *User*, for IE enhanced security. Click **OK**.

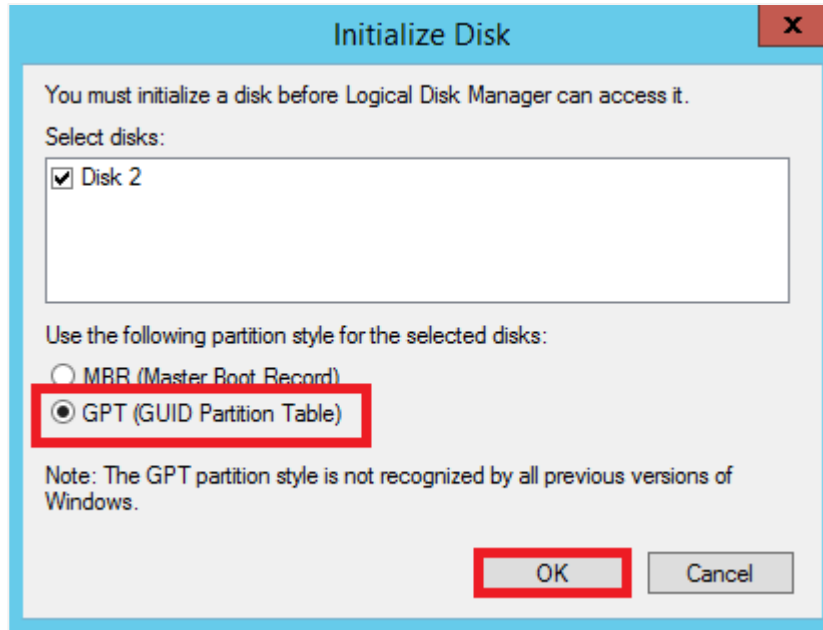


5. Refresh the page. The *IE Enhanced Security Configuration* should not show as **Off**.
6. Now, click on **Tools** at the top-right corner of the *Server Manager* and select **Computer Management**.

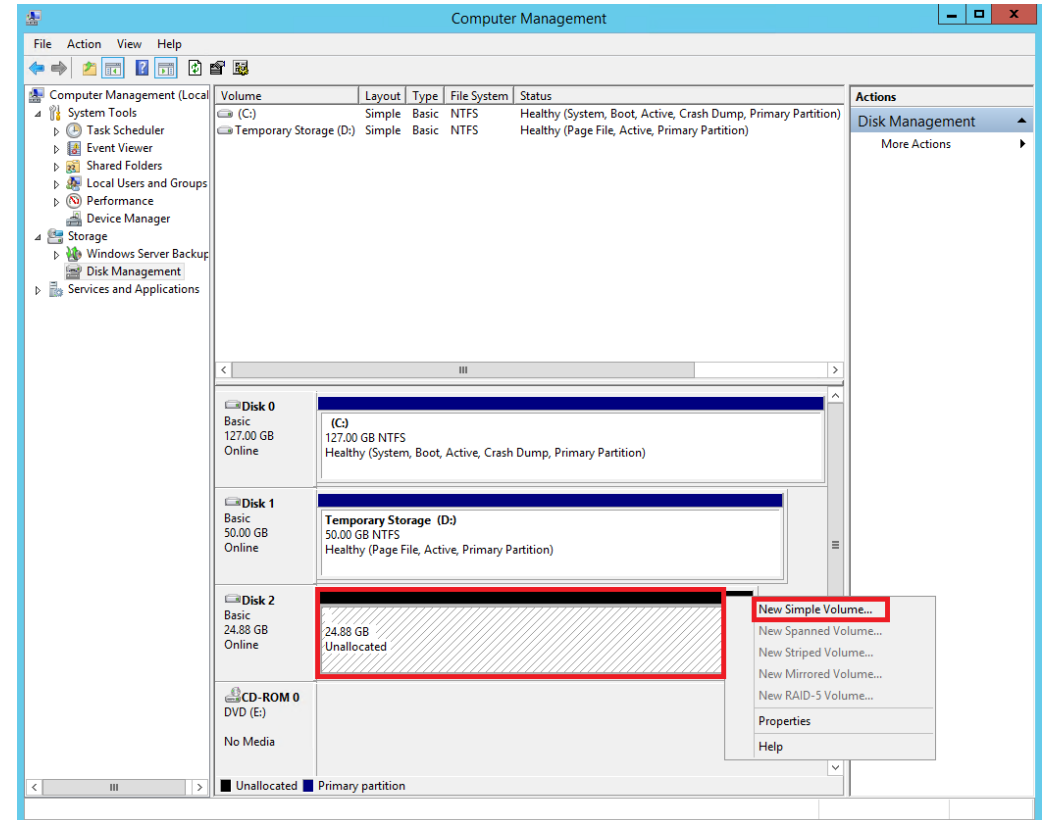


7. On the Computer Management window, select **Storage** and click on *Disk Management* under it.

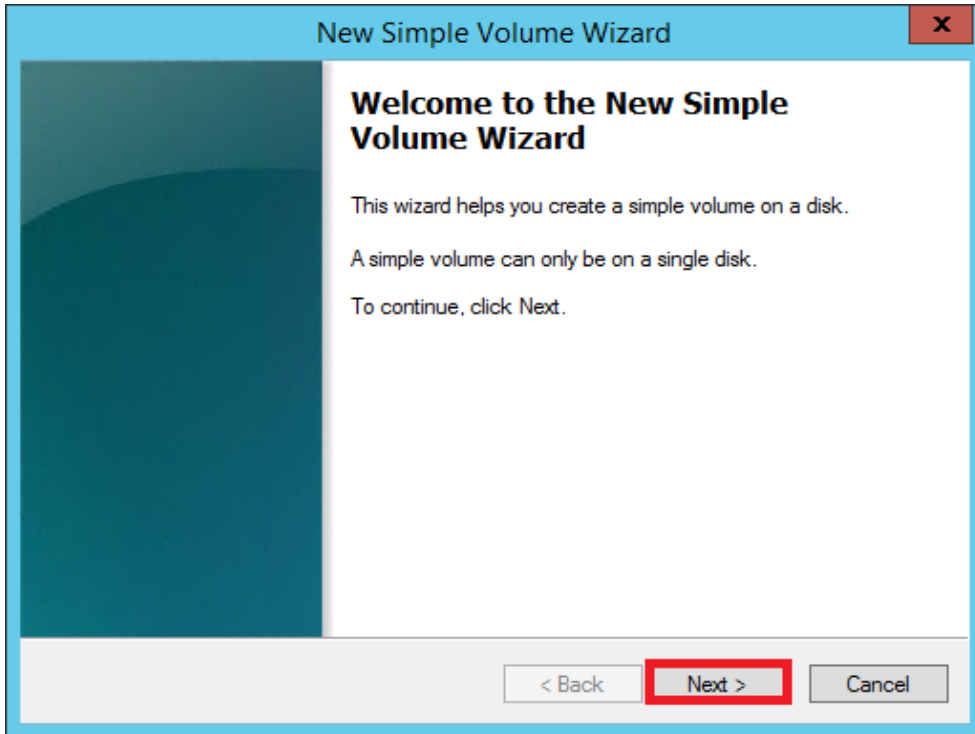
8. A dialog box pop-ups to initialize the disk. Select *GPT (GUID Partition Table)* and click OK.



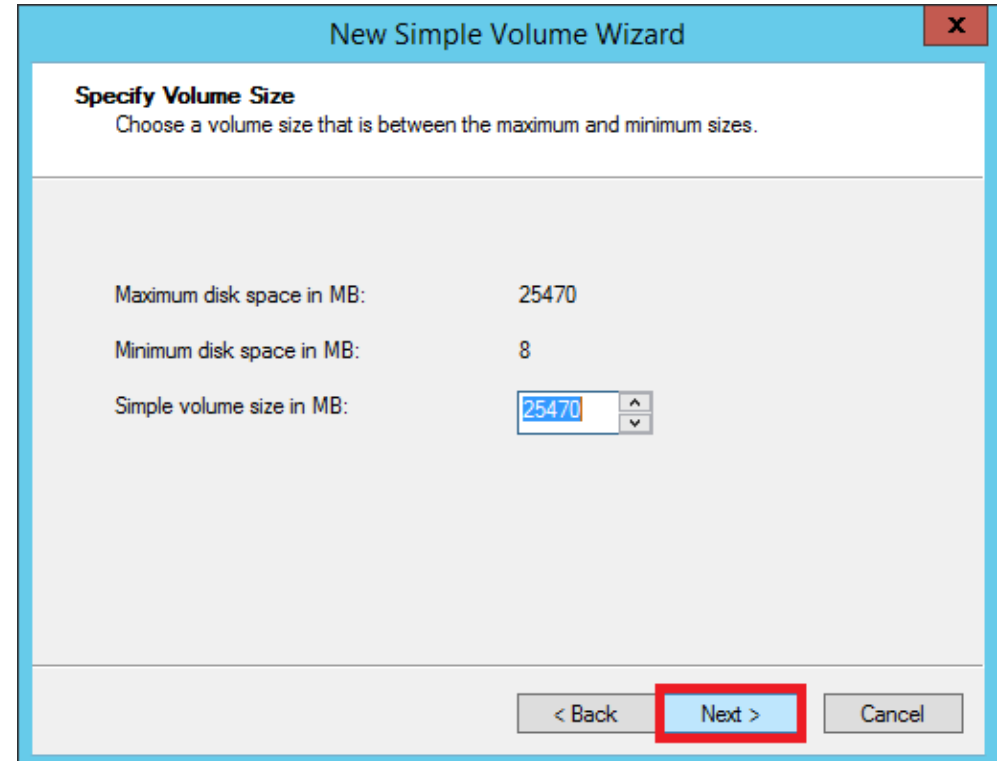
9. In the Disk Management window, scroll down to the Disk 2. Right-click on it and select *New Simple Volume*.



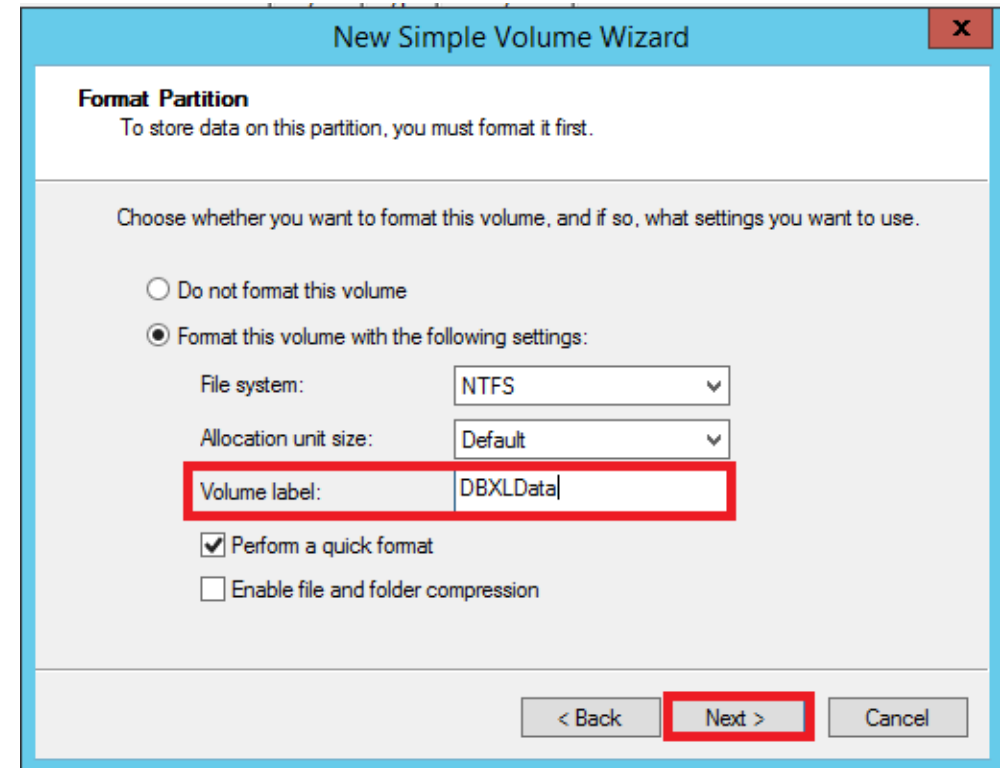
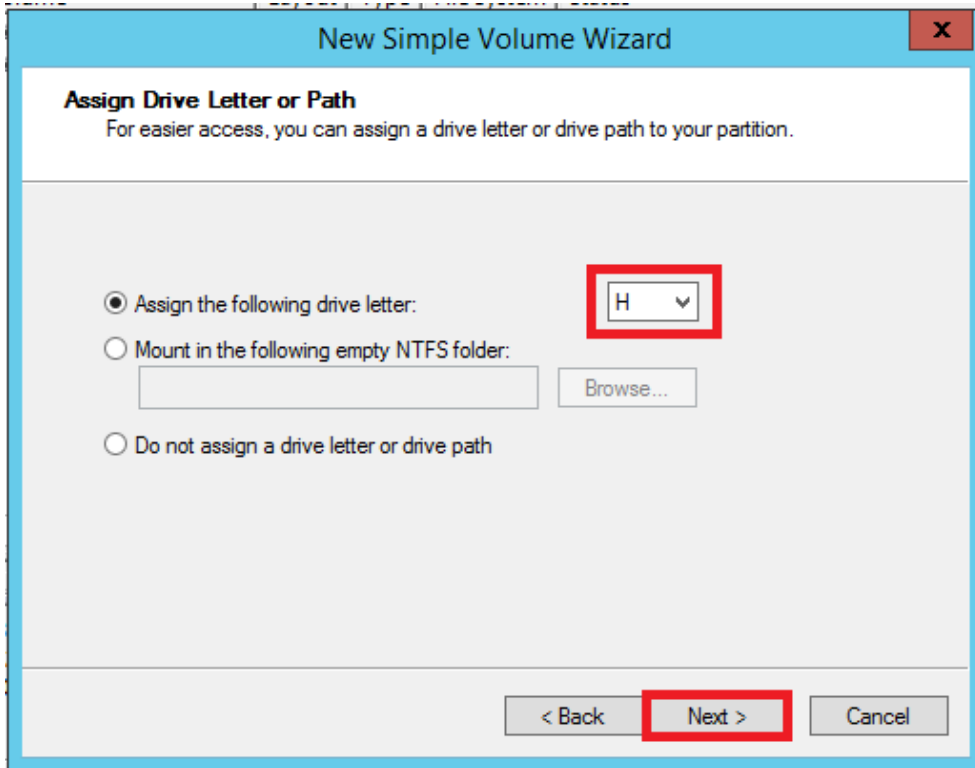
10. Click **Next** when the *New Simple Volume wizard* appears.



11. Let the Simple Volume size be the default value. Click **Next**.

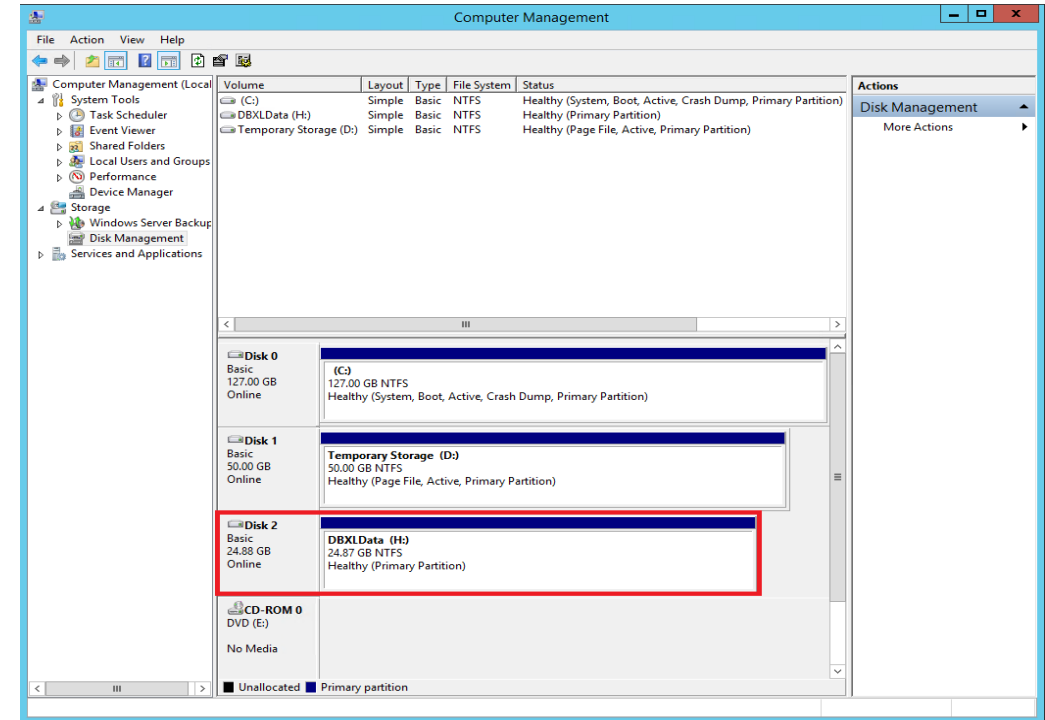
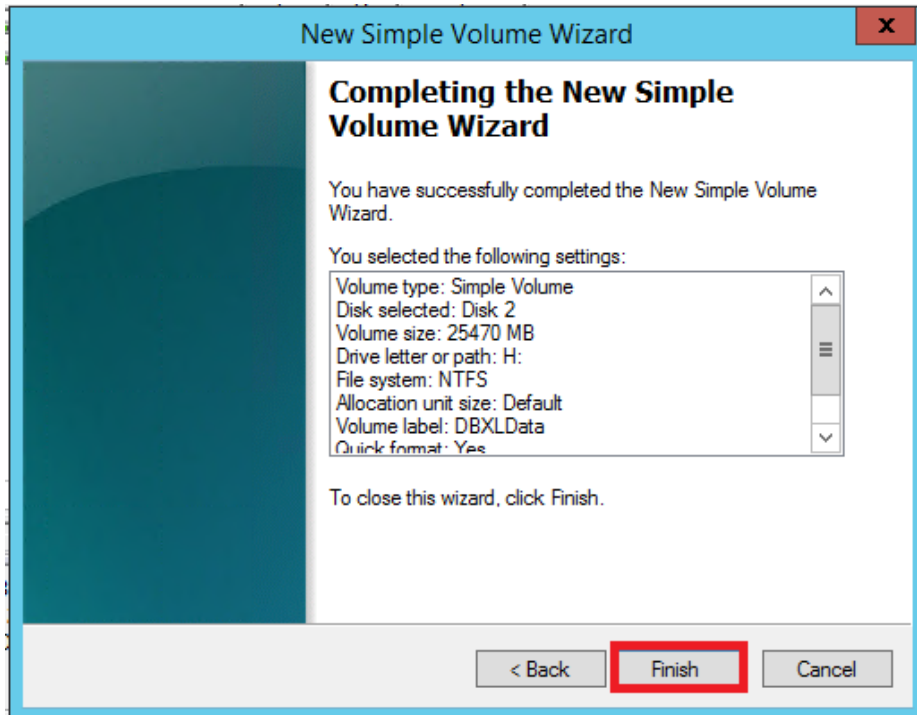


12. On the next window, assign the *drive letter or path* (e.g. H). Click **Next**.



13. For the Format Partition, enter the *Volume label* name (eg. DBXLData). Click **Next**.

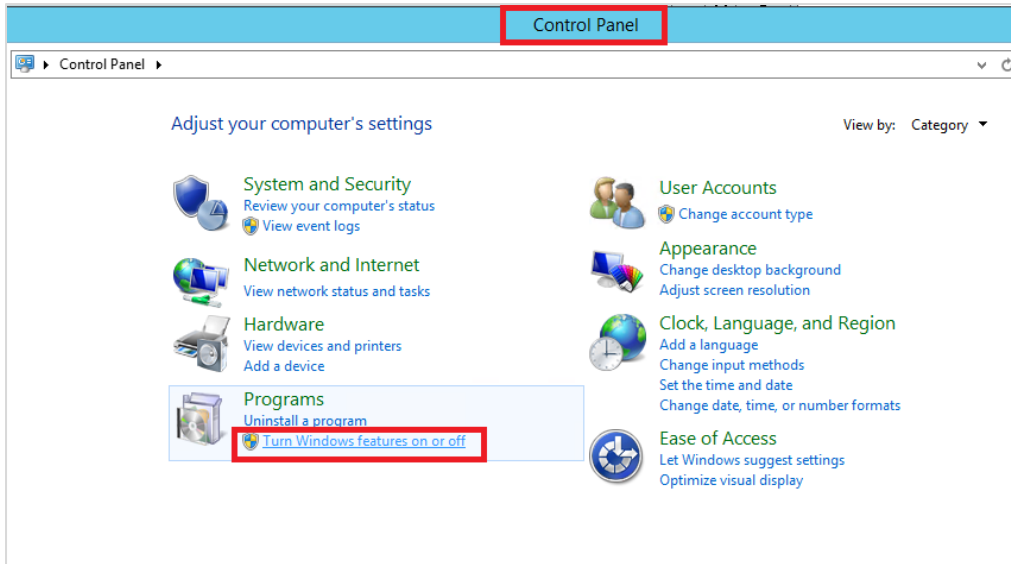
14. Click **Finish** on the next window, to complete the *New Simple Volume Wizard*.



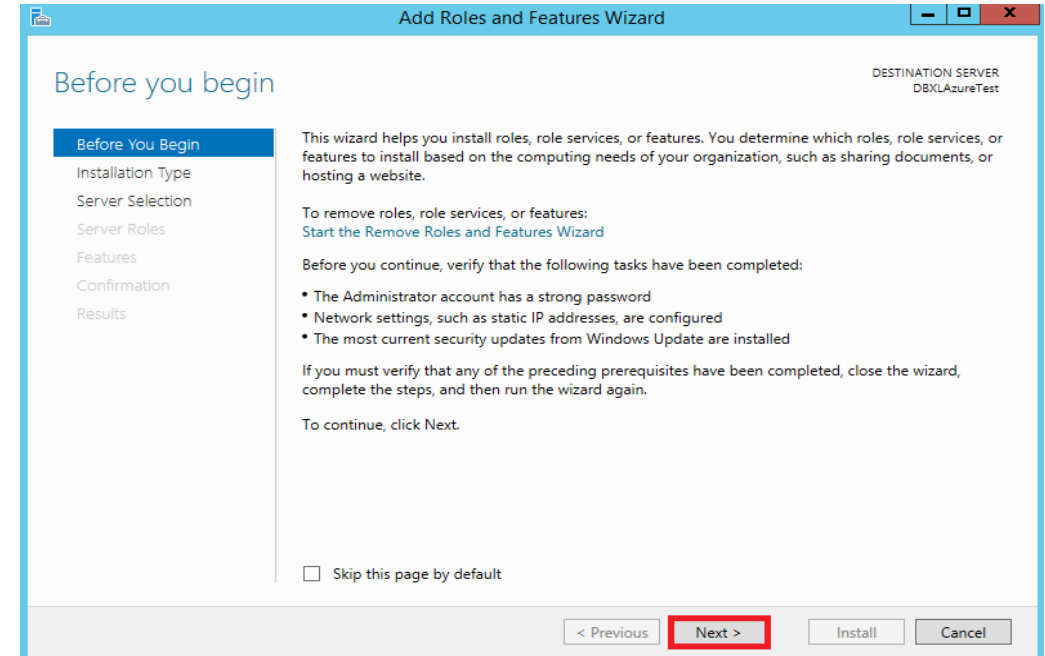
15. On the Data management window, the Disk 2 will now have a Volume Label name (DBXLData) and drive letter (H:) selected and the size (24.87GB).

[INSTALL THE WEB SERVICE \(IIS\) AND .NET FRAMEWORK 3.5](#)

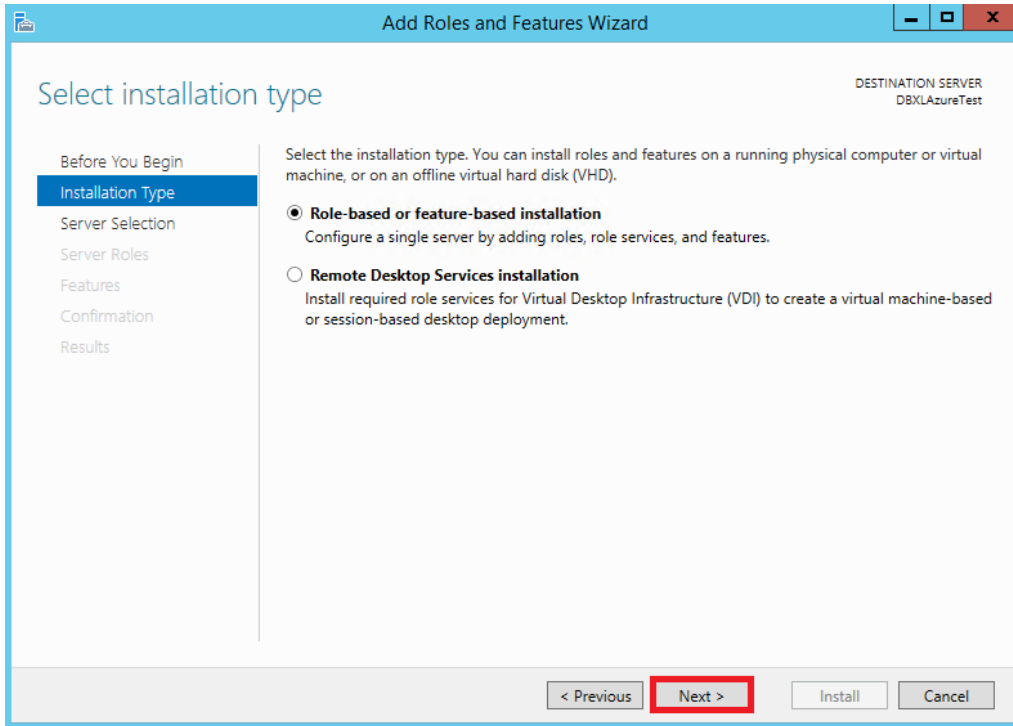
1. Open the Control Panel and click on *Turn Windows features on or off*, under Programs.



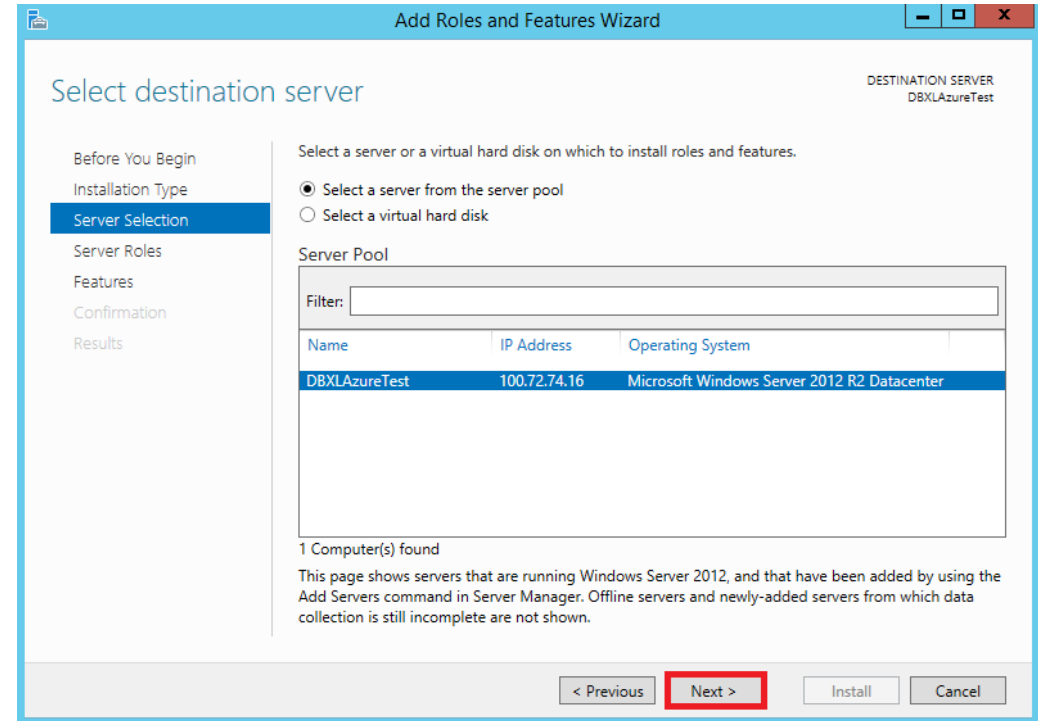
2. *Add Roles and Features Wizard* opens up. Click **Next**.



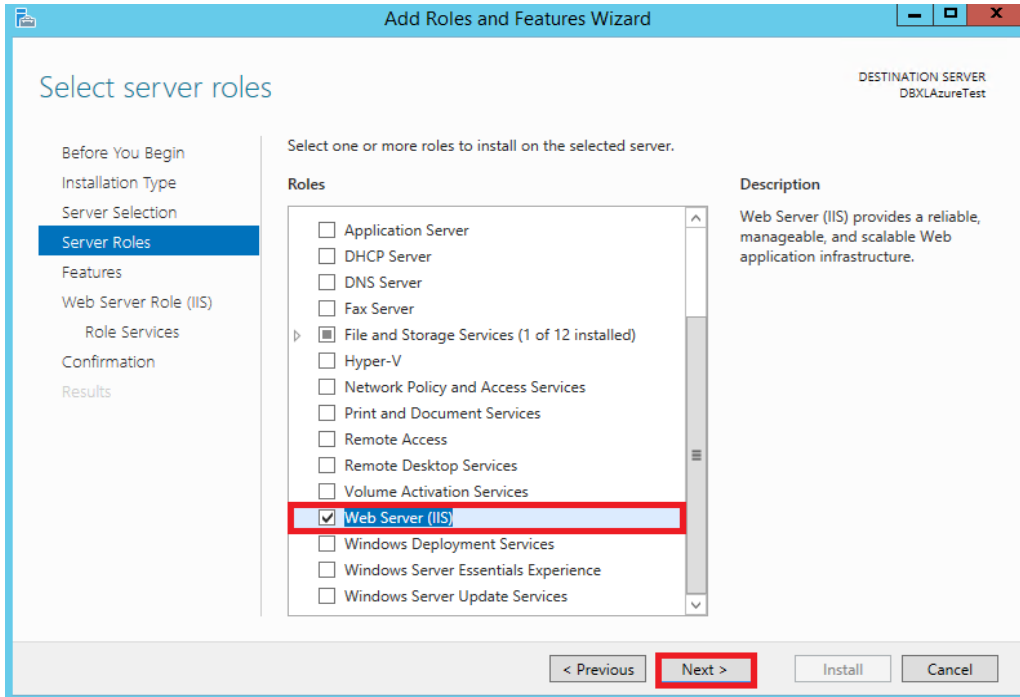
3. Click **Next** on the *Installation Type* window.



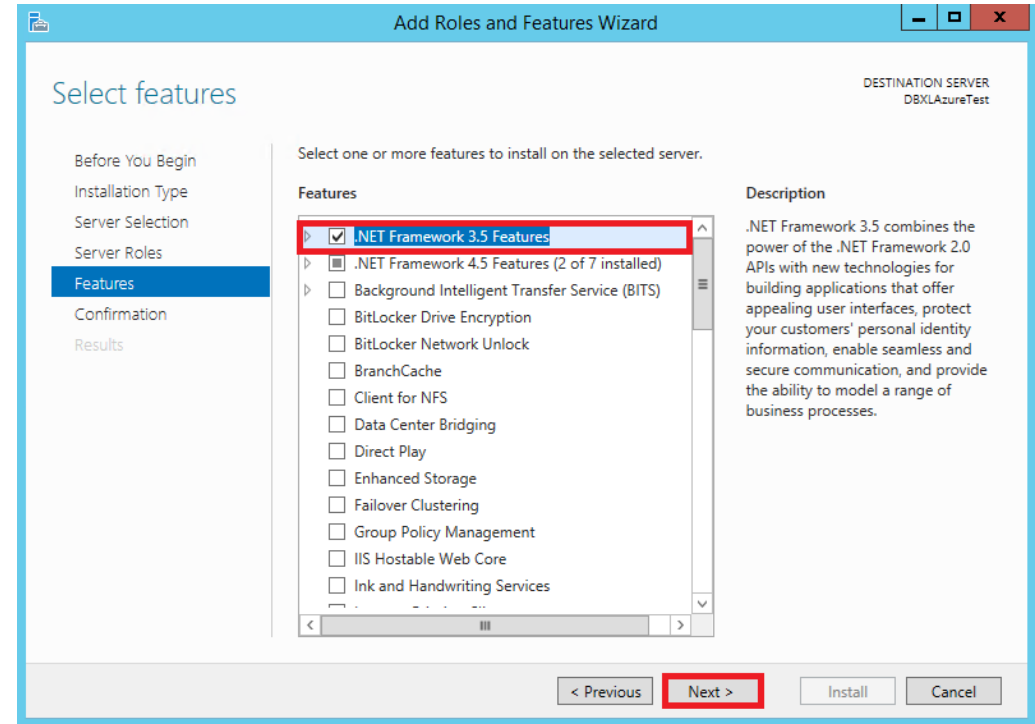
4. Click **Next** on the *Server Selection* window.



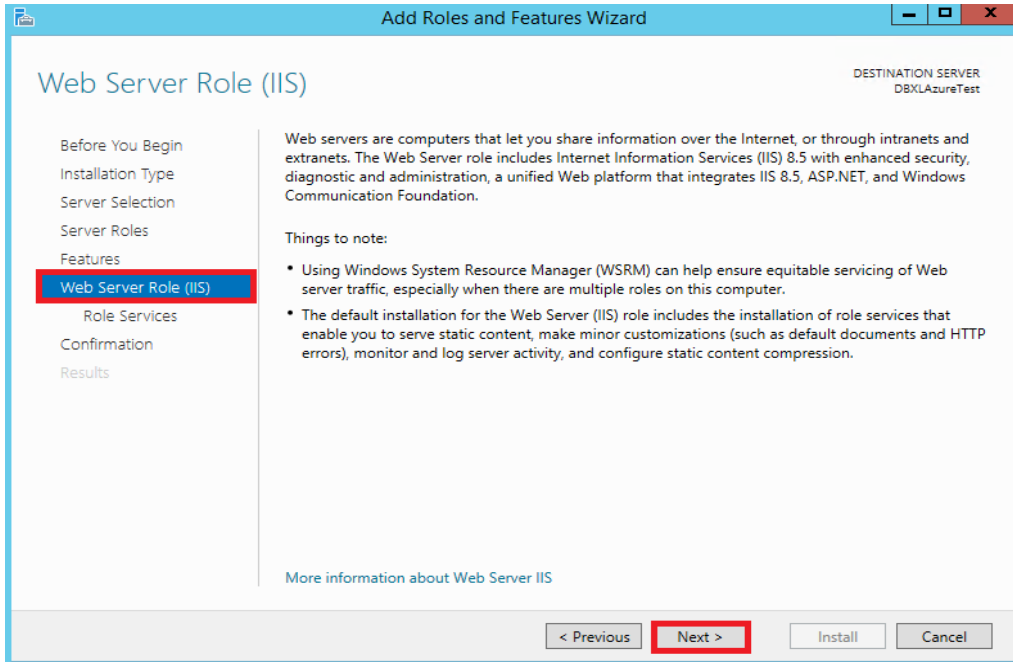
5. Check **Web Server (IIS)** on the *Server Roles* window. Click **Next**.



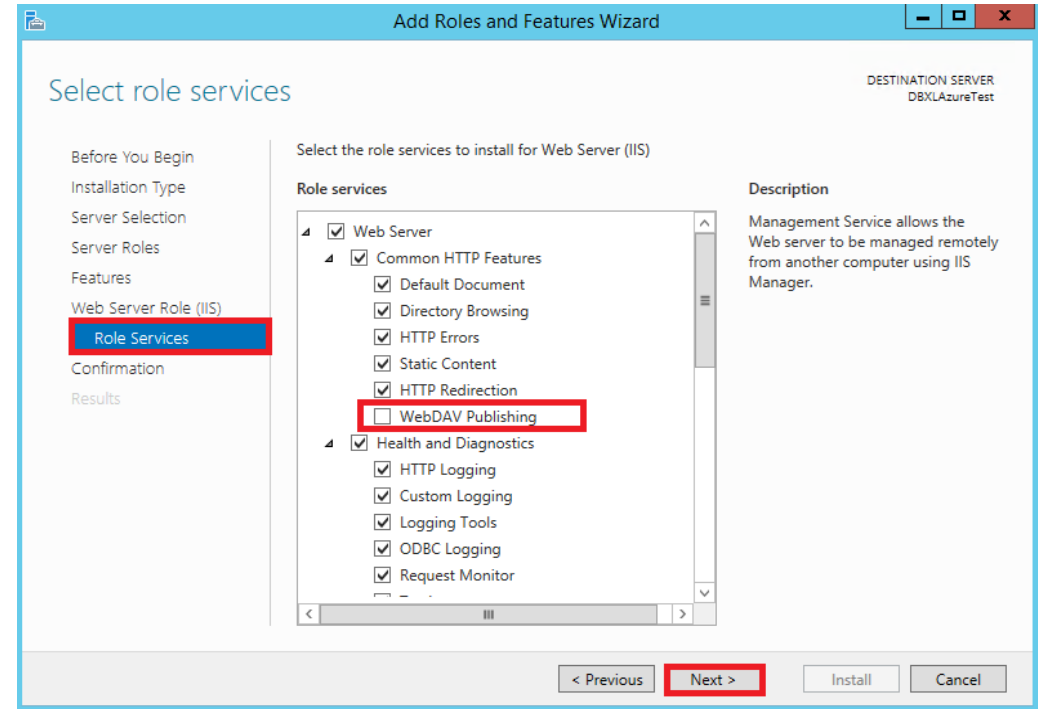
6. Check the **.NET Framework 3.5 Features**, on the *Select Features* window. Click **Next**.



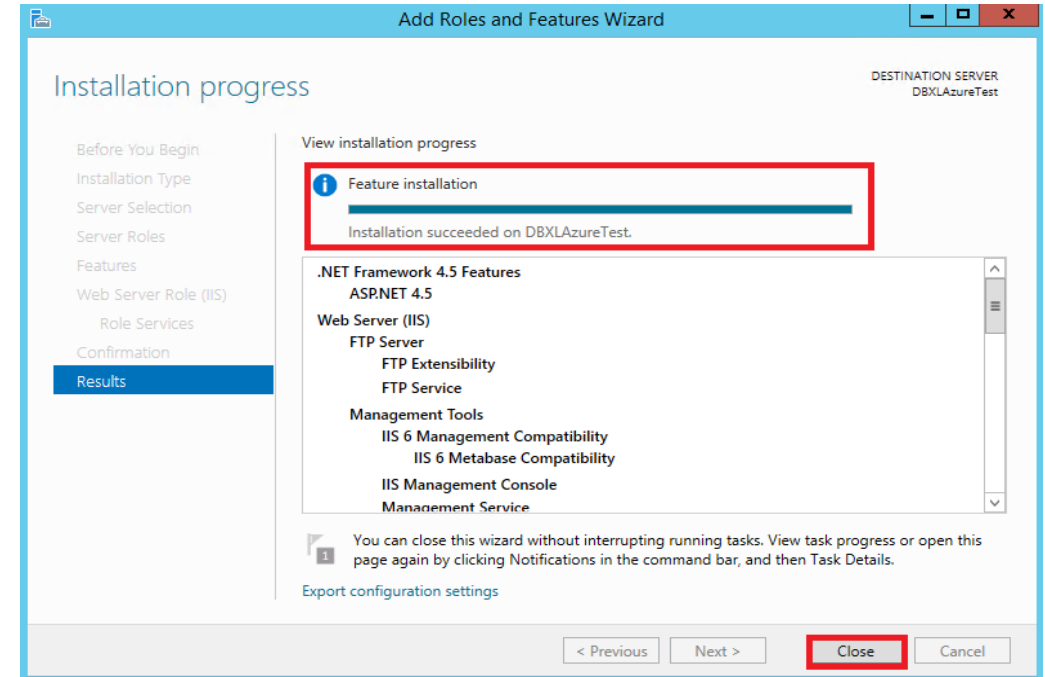
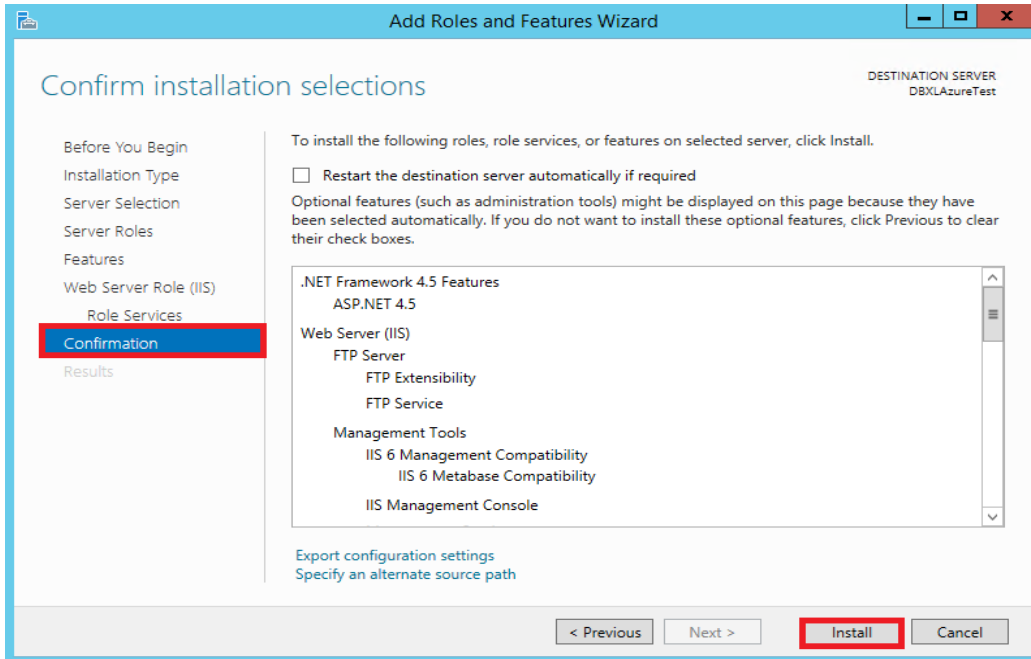
7. Click **Next** on the *Web Server Role (IIS)* window.



8. On *Roles Services* window, check all the boxes except for **WebDAV Publishing**. Click **Next**.



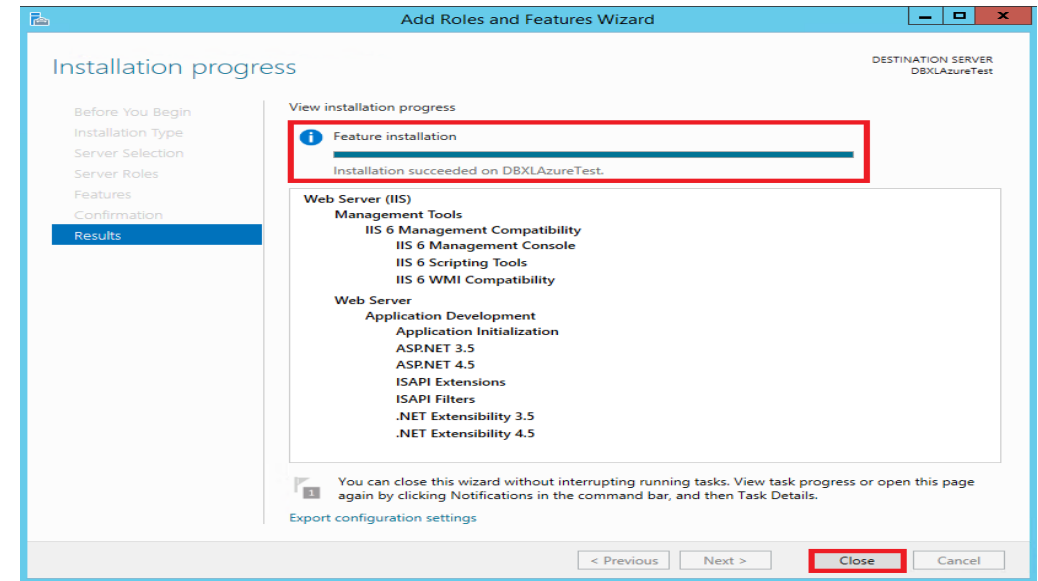
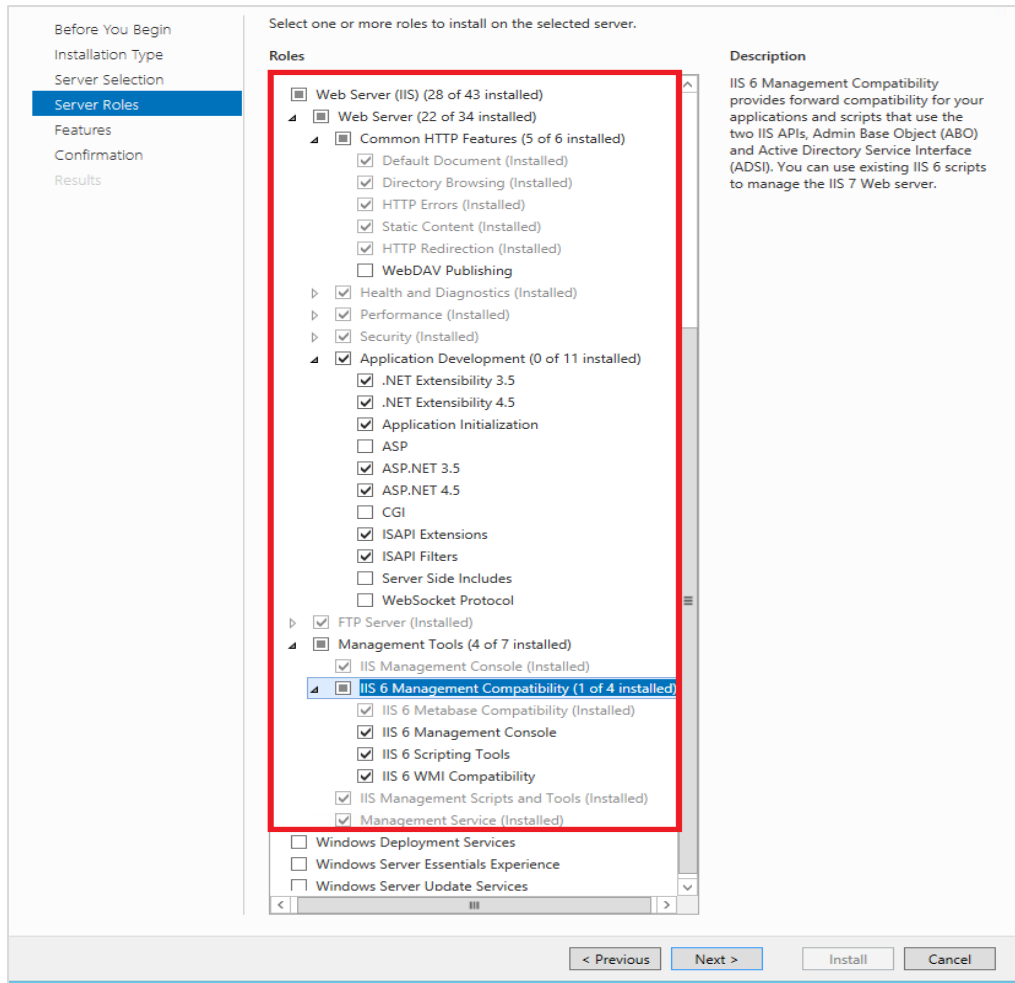
9. On the *Confirmation* window, click **Install**.



10. Once the installation is successful, click **Close**.

11. Open the **Control Panel** again and select *Turn Windows Features on and off* under **Programs**.

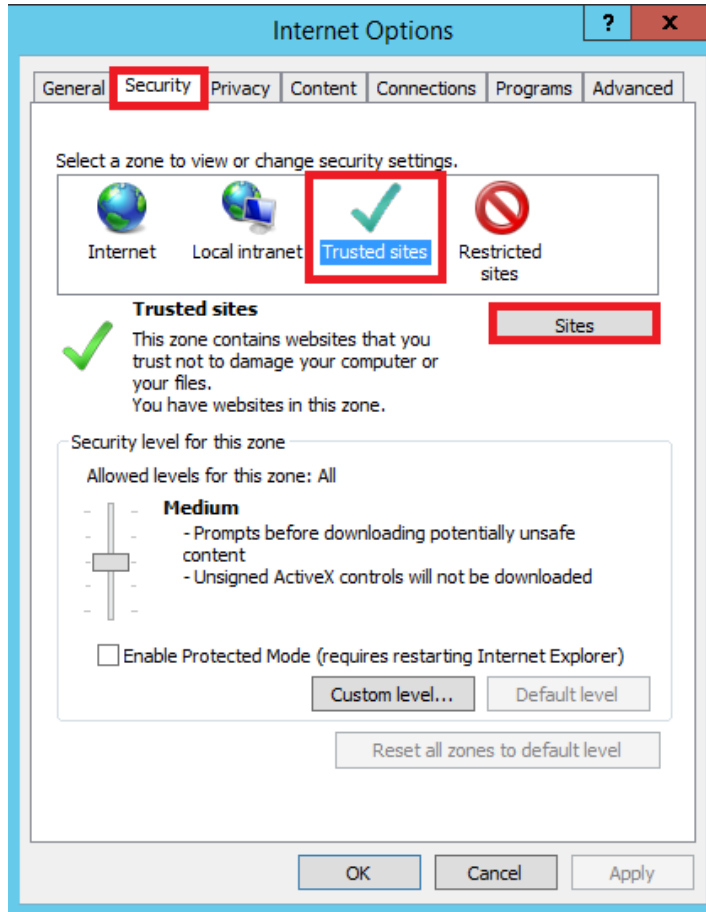
12. Click **Next** 3 times until you reach the **Server Roles** window. On **Server Roles**, select the uninstalled roles under **Web Server (IIS)** shown in the screenshot below:



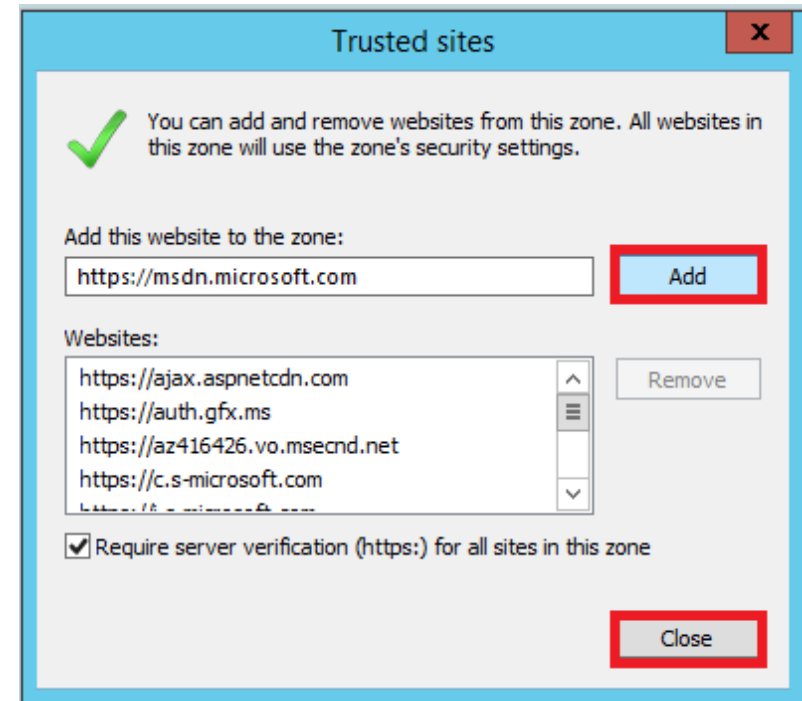
SQL SERVER EXPRESS 2014 INSTALLATION

1. Open **Internet Explorer** and type in the Microsoft URL for downloading *SQL Server Express 2014 Edition*.
2. Once the download screen opens up, click on the gear icon at the top-right corner of the IE to expand it.
3. Select **Internet Options**. Click on the **Security** tab and select **Trusted Sites**.

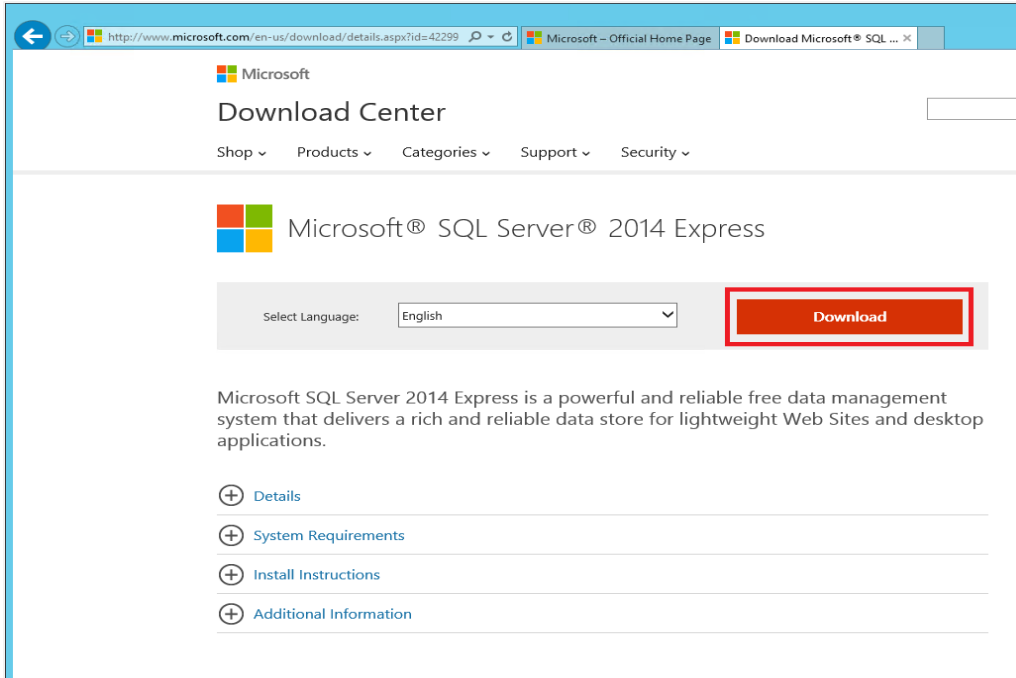
13. Click on **Install** and **Close** the dialog box after the install is successful.



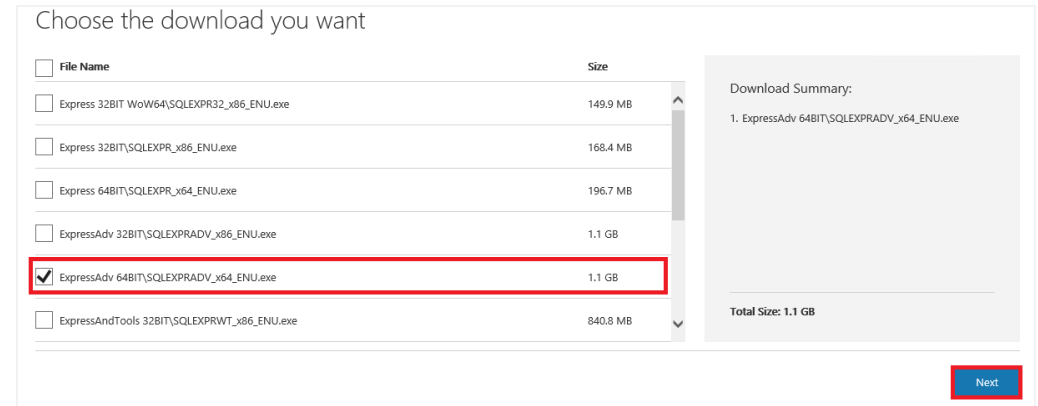
4. Click on **Sites** and **Add** the site. Click **Close**.



5. Go back to the *SQL Server Express 2014 Edition* download page on the Internet Explorer and click on **Download**.



6. Select **ExpressAdv 64BIT\SQLEXPRADV_x64_ENU.exe** and click **Next**.

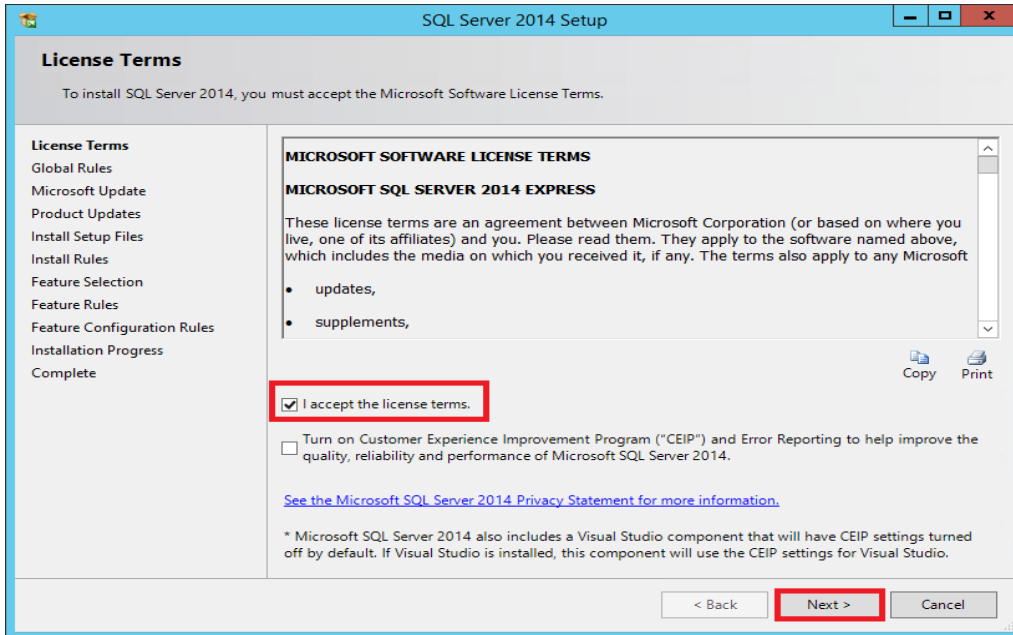


7. Save the **SQLEXPRADV_x64_ENU.exe**.

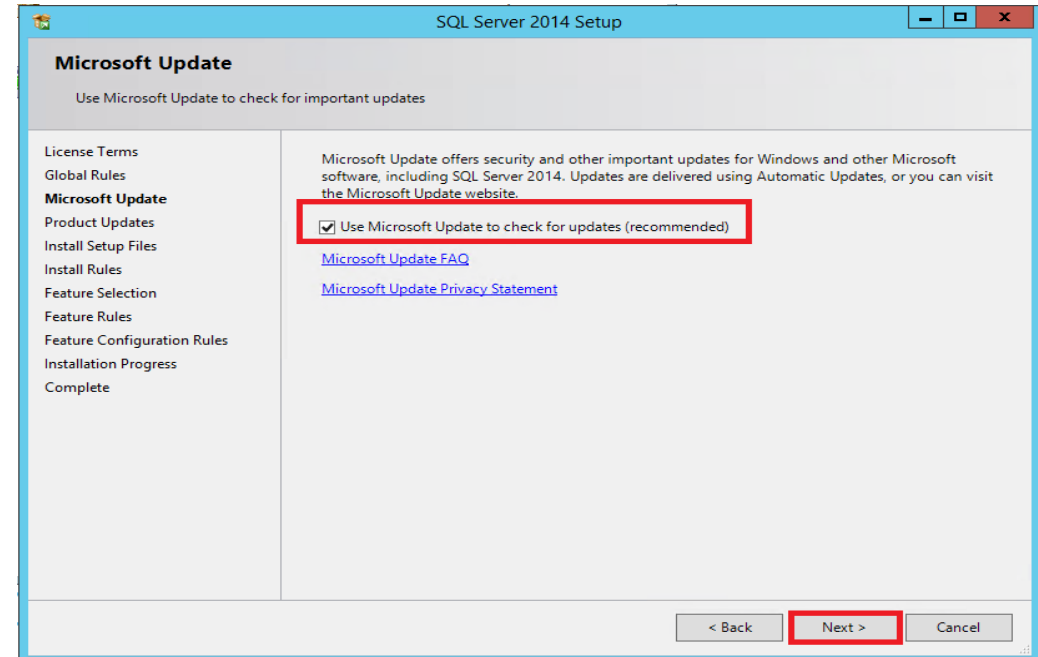


8. Once it is saved, click on **Run**.

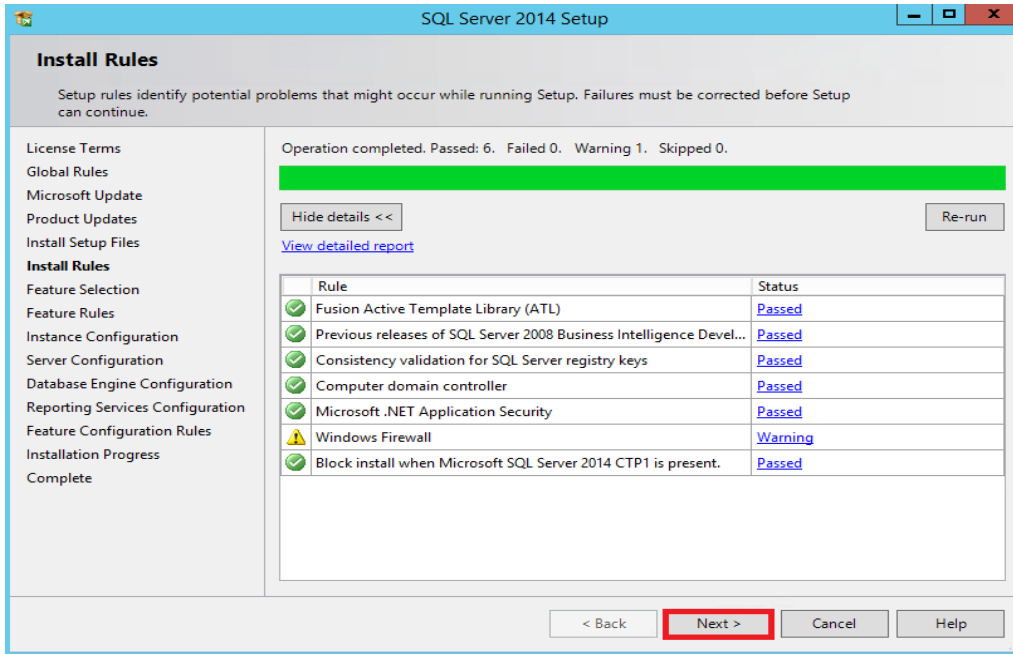
9. The *SQL Server 2014 Setup* window opens up. Check the box to accept the license terms. Click **Next**.



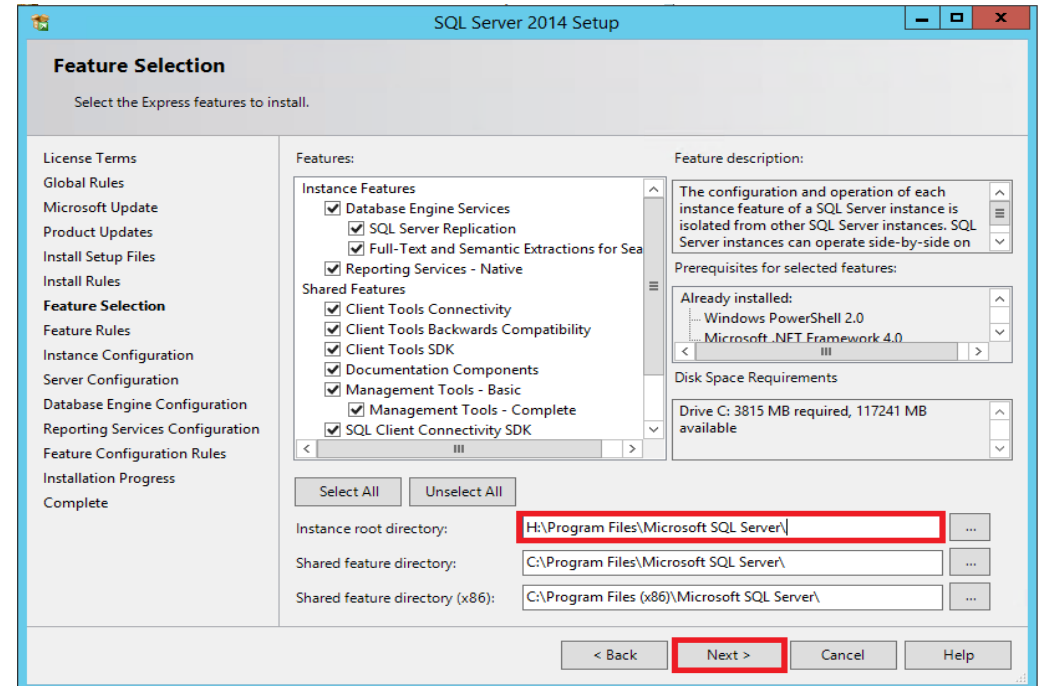
10. Check the box for *Microsoft Update* and click **Next**.



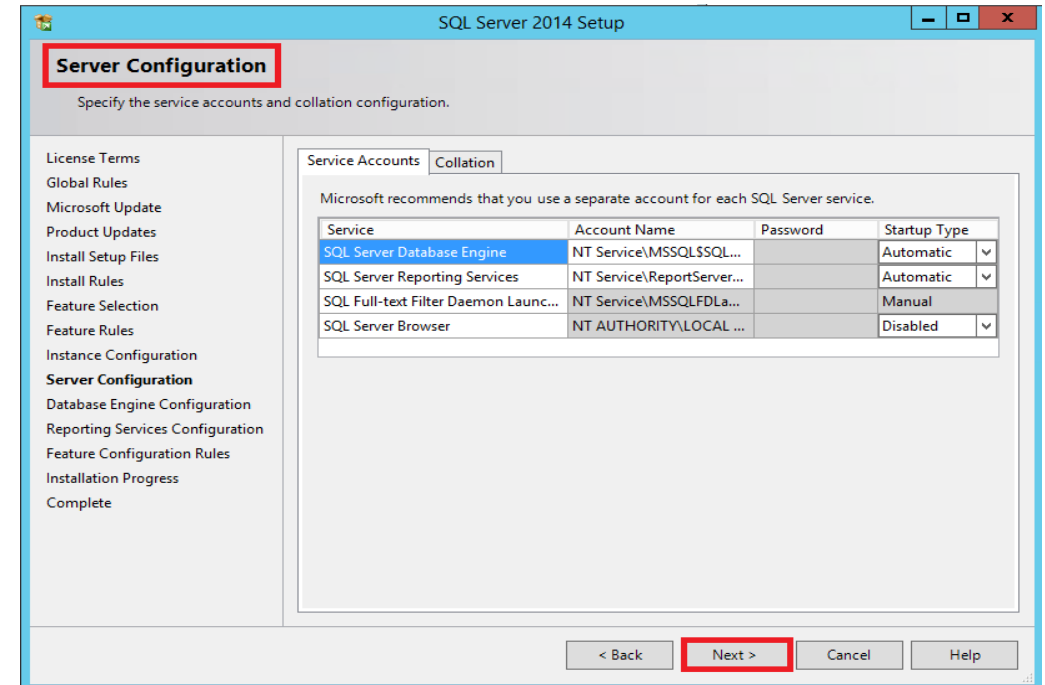
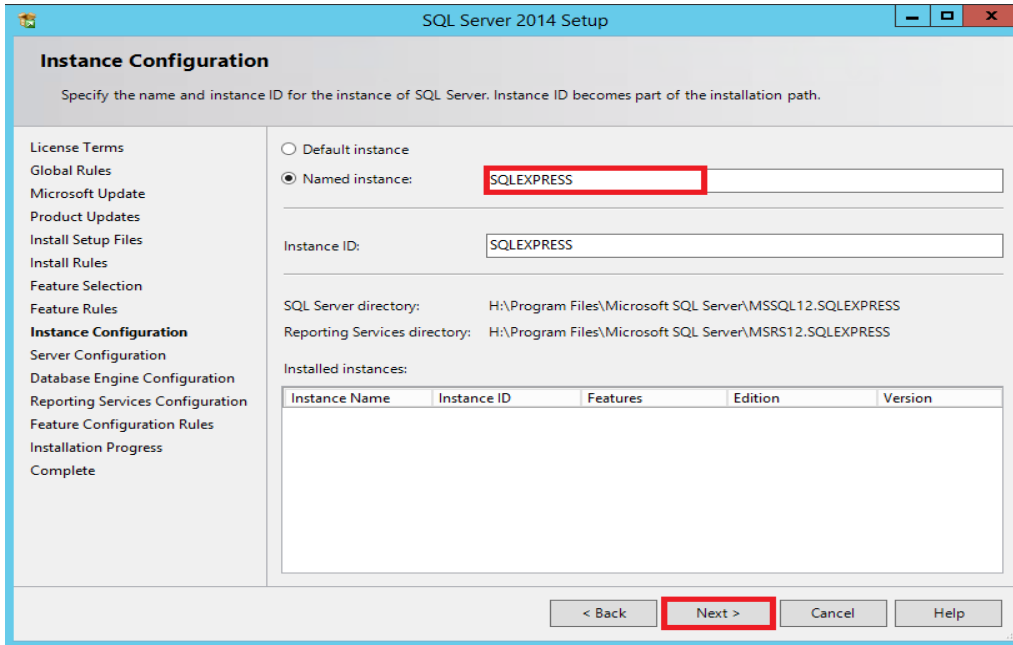
11. On the *Install Rules* window, click **Next**.



12. For the *Feature Selection*, change the *Instance root directory* to the Drive you choose earlier (H:).

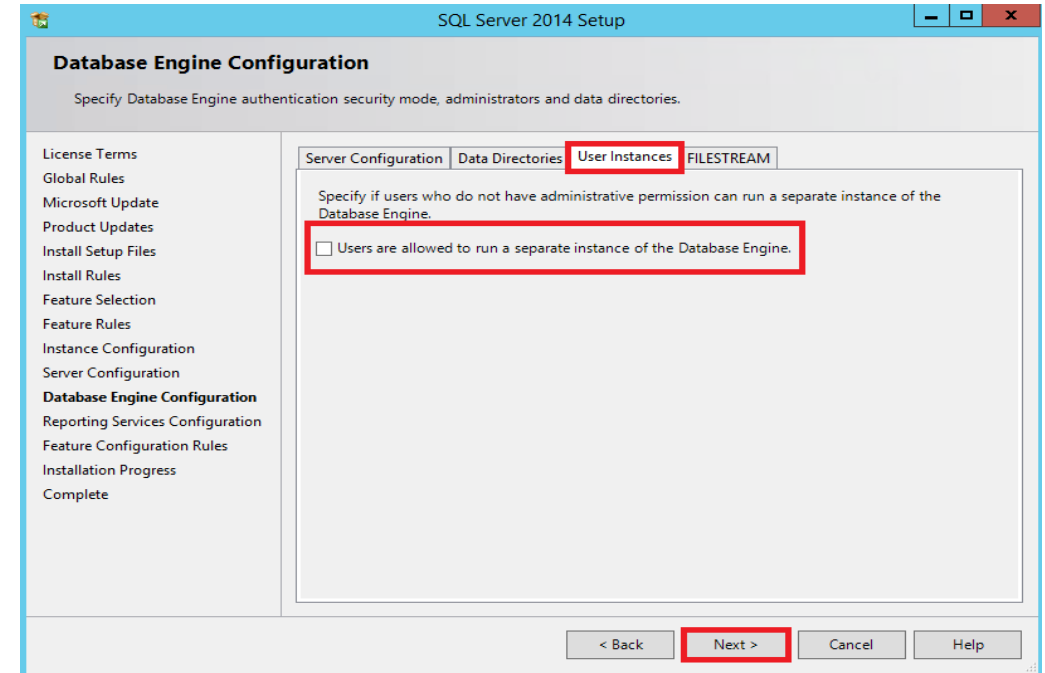
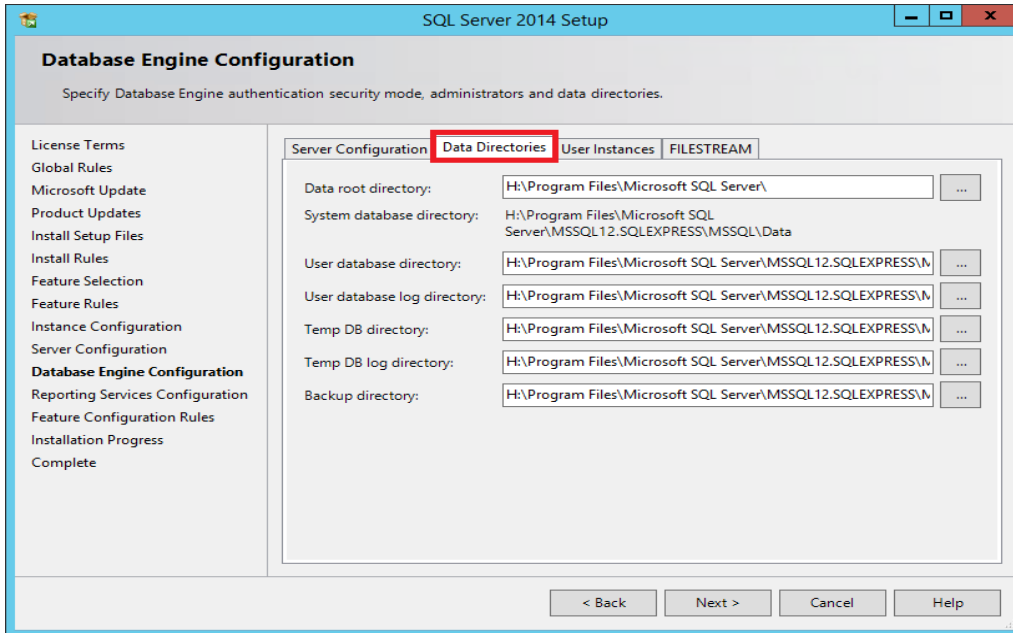


13. On the *Instance Configuration* window, keep the default name for the **Named instance** (SQLEXPRESS) and click **Next**.



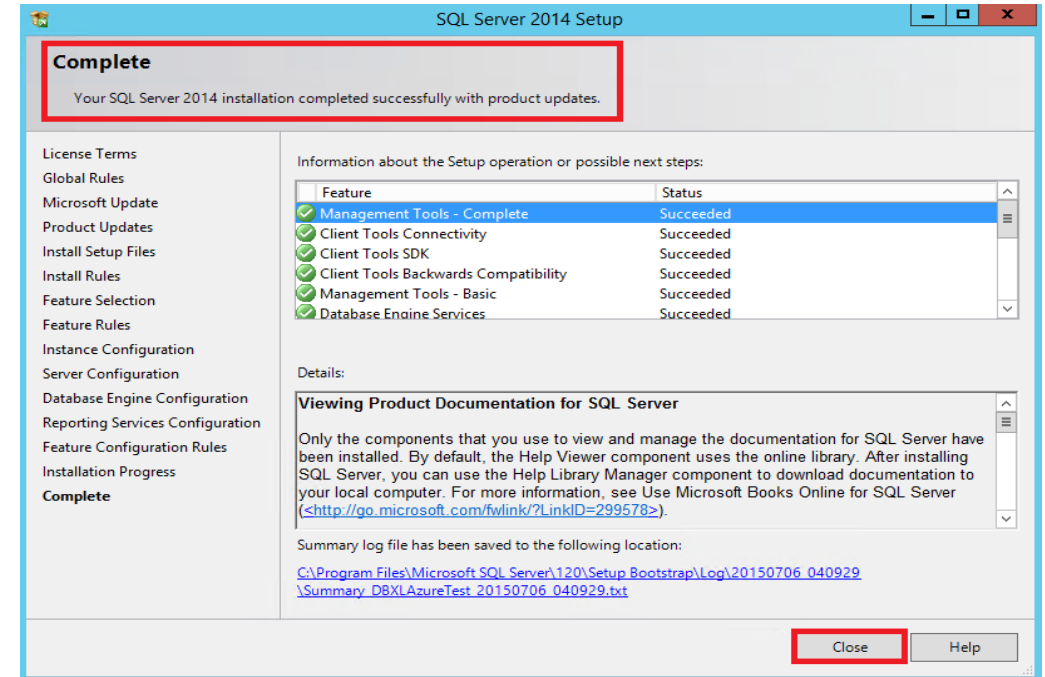
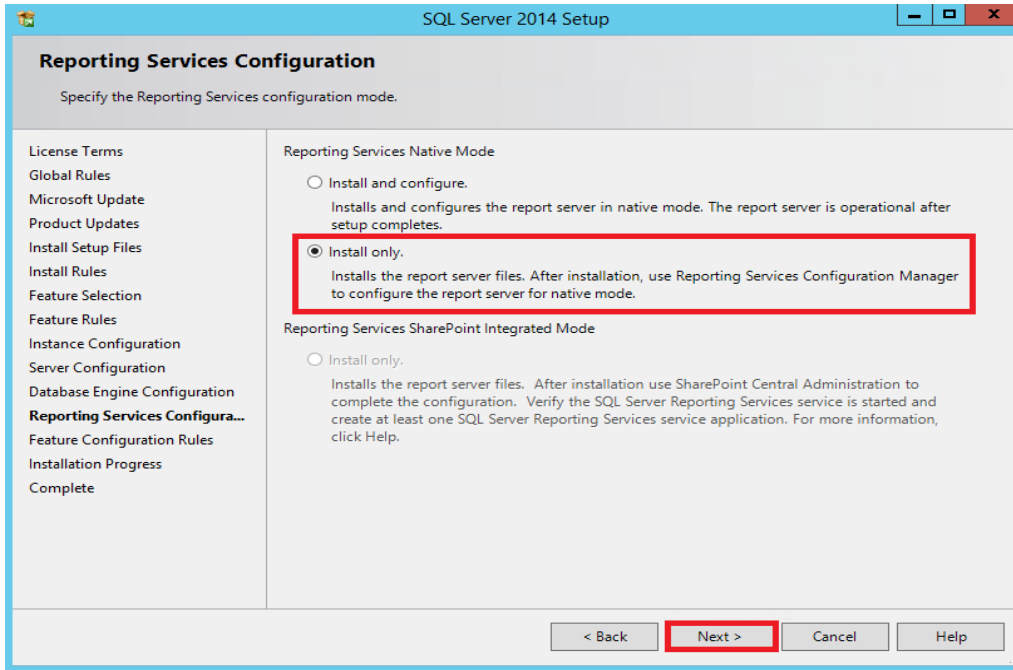
14. On the *Server Configuration* window, click **Next**.

15. On the *Database Engine Configuration*, click on **Data Directories** tab. Check that the directory is pointing to the drive chosen by you.



16. Click on the *User Instance* tab and uncheck the box. Click Next.

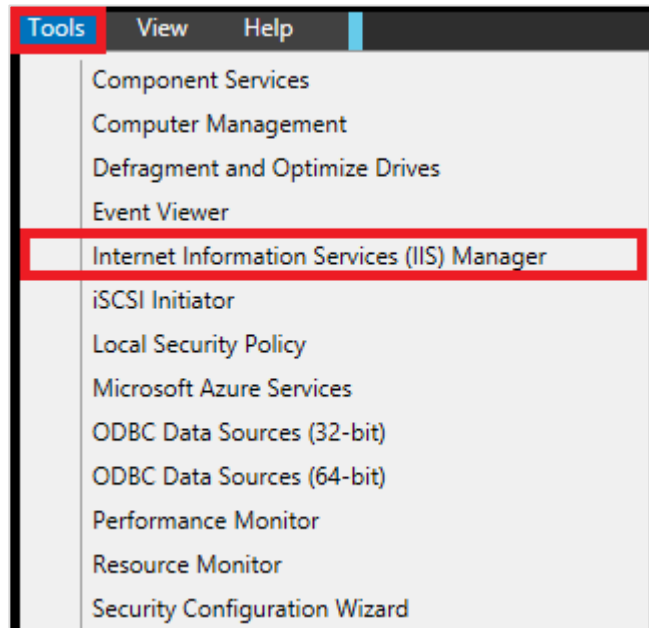
17. Click on *Install Only* on the *Reporting Services Configuration* window. Click **Next**.



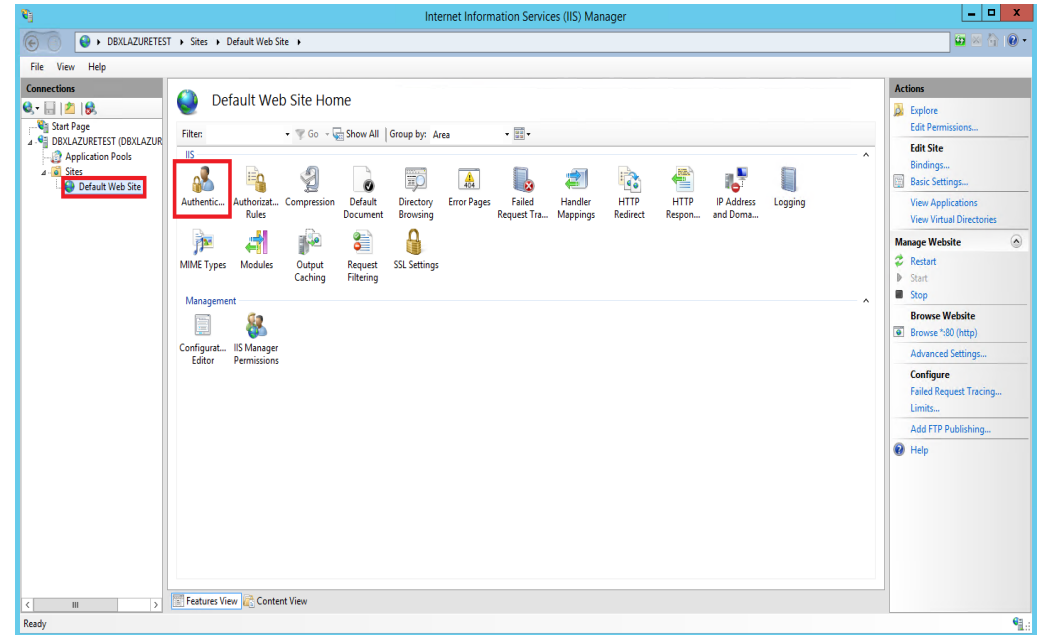
18. *Installation progress* window shows the progress. When the installation is *Complete*, click on **Close**.

DBXL v3.3 INSTALLATION

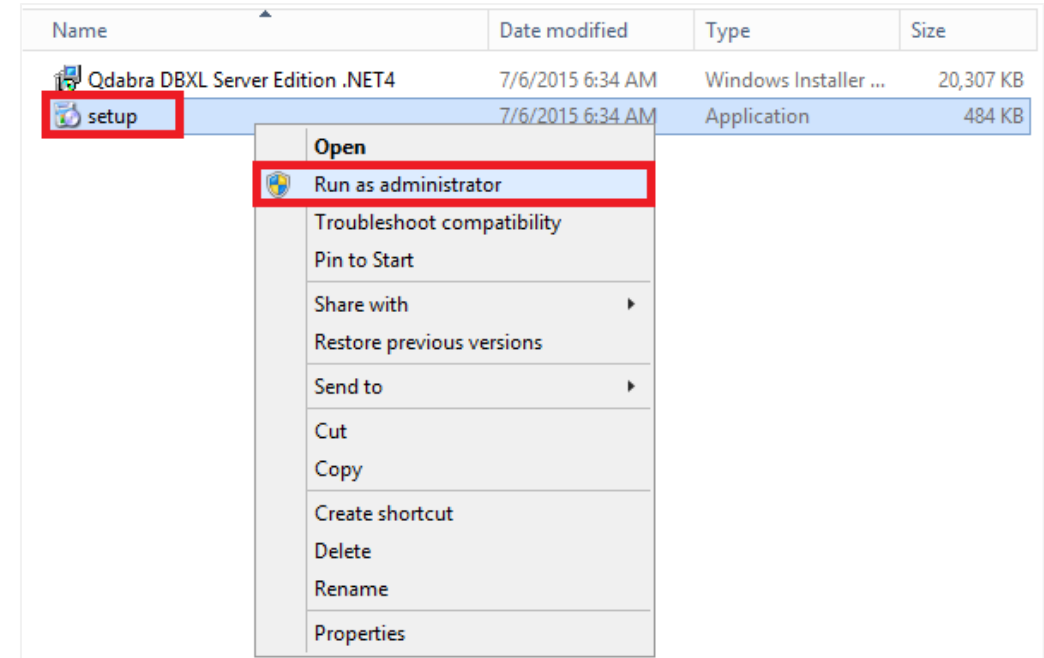
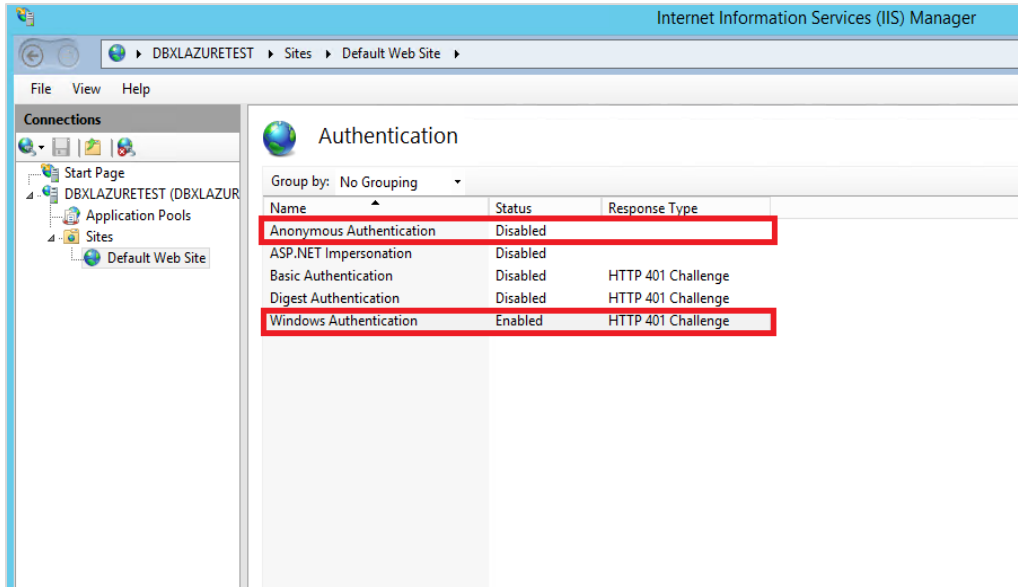
1. Open the *Server Manager*. Click on *Tools* on the upper-right corner and select **IIS Manager**.



2. On the IIS manager window, expand the sites and click on **Default Web Site**.
3. On the right-side, double-click on **Authentication**.

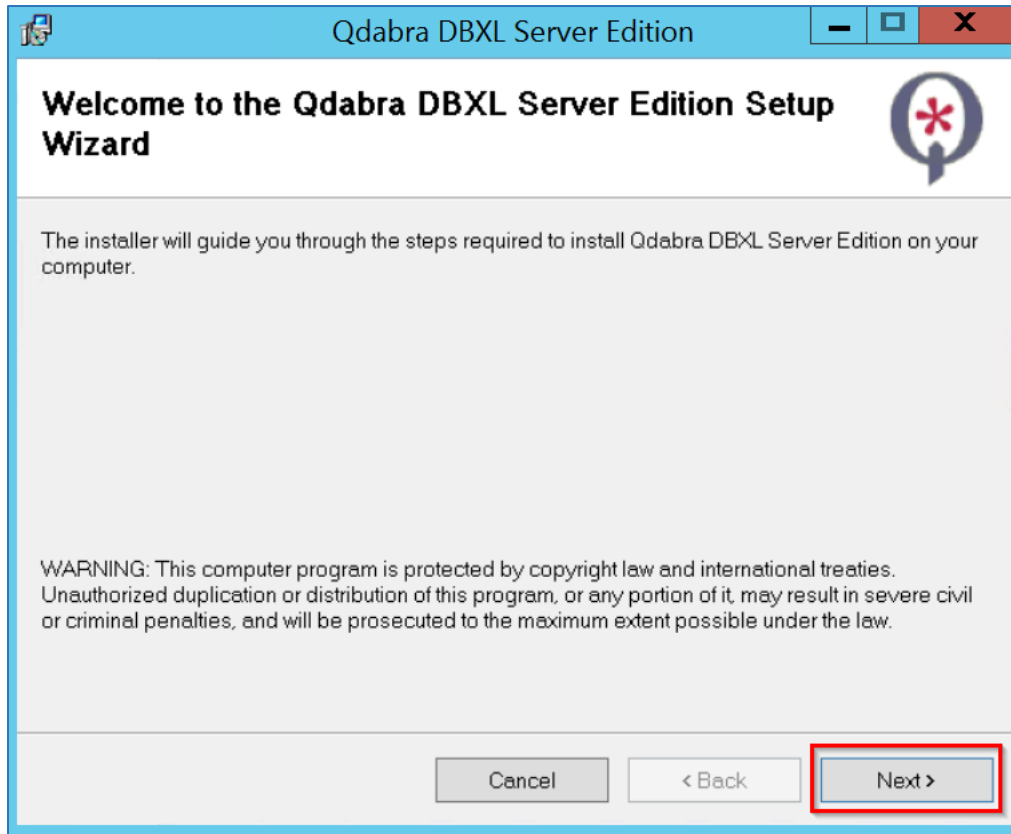


4. **Disable** the *Anonymous Authentication* and **Enable** the *Windows Authentication*.

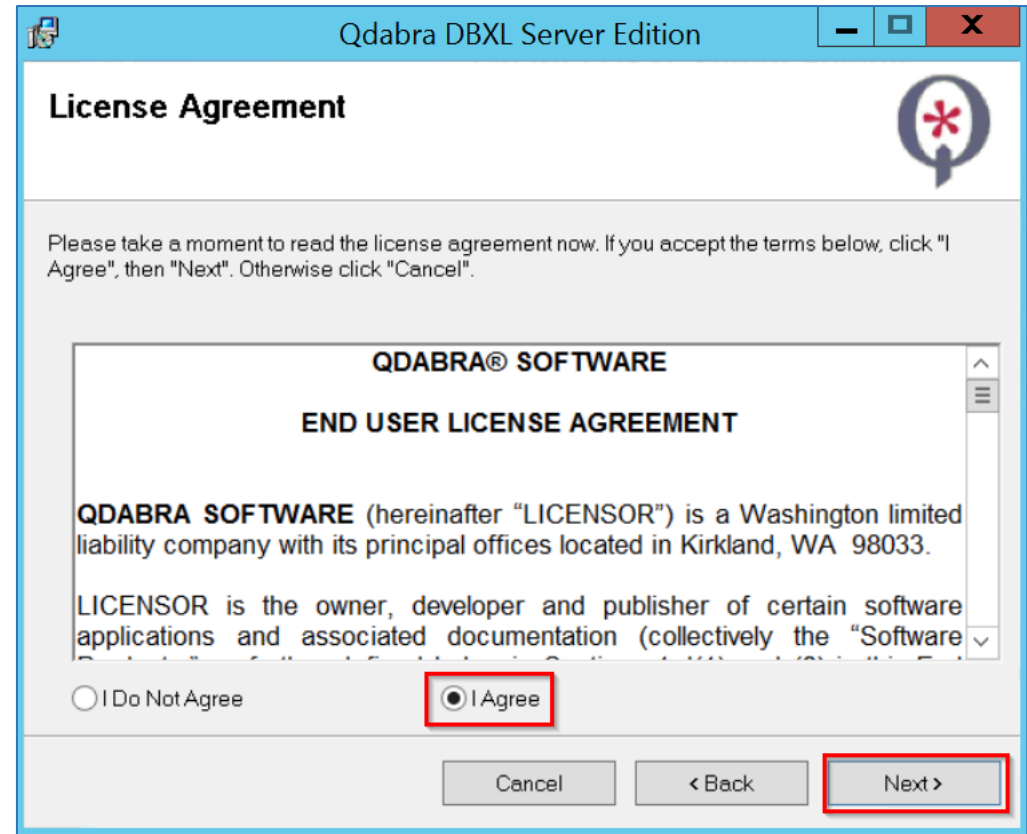


5. Go to the location where you have saved the DBXL v3.0 installation package named *Qdabra DBXL Server Edition .NET4*.
6. Right-click on **setup** and *Run as Admin*.

7. *Qdabra DBXL Server Edition* window appears. Click **Next**.

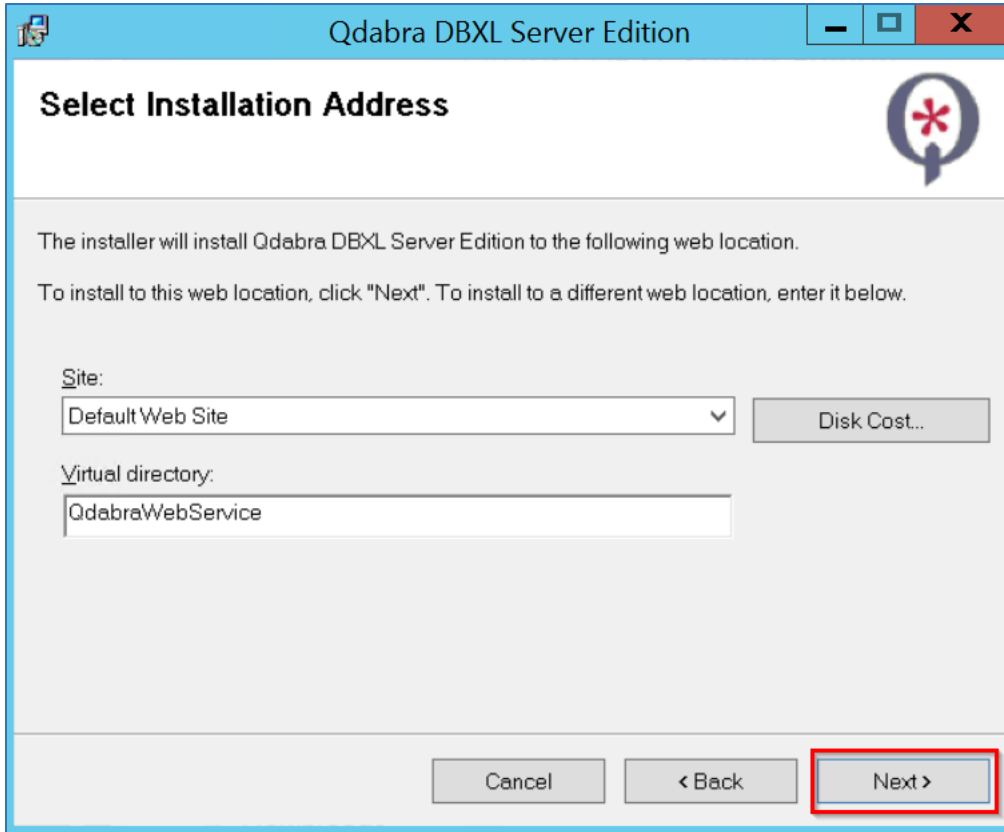


8. Select *'I Agree'* on License Agreement and click **Next**.

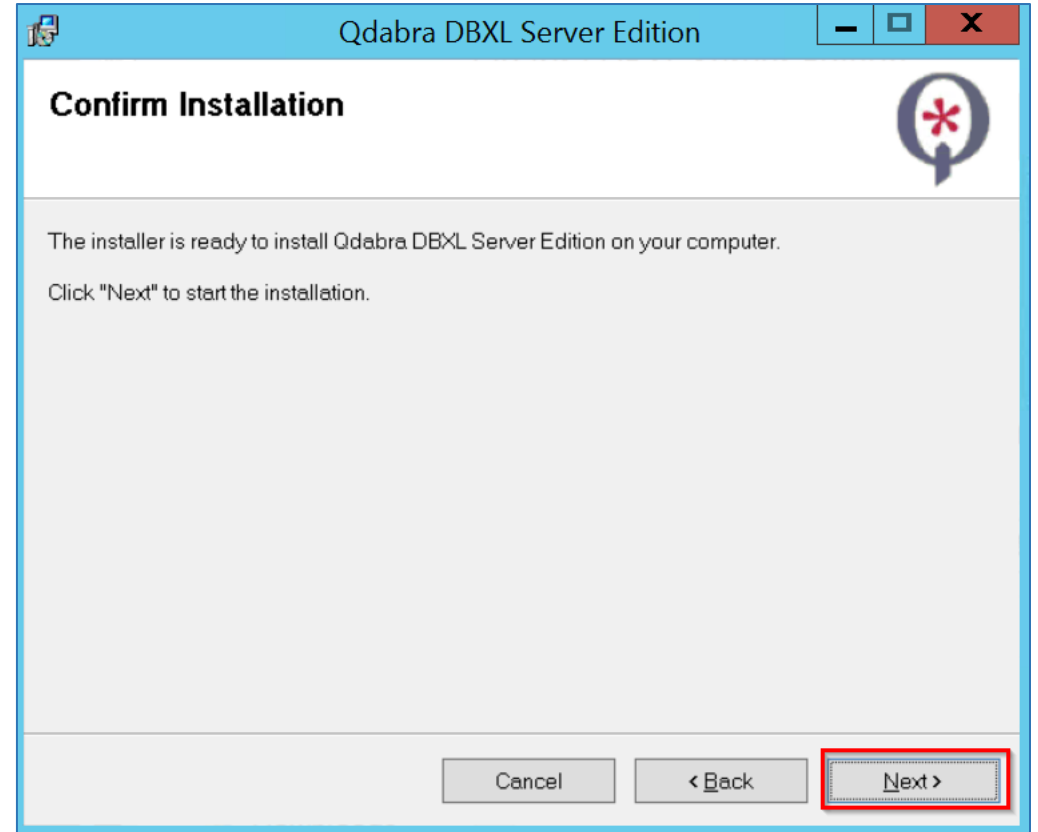


9. Click **Next**.

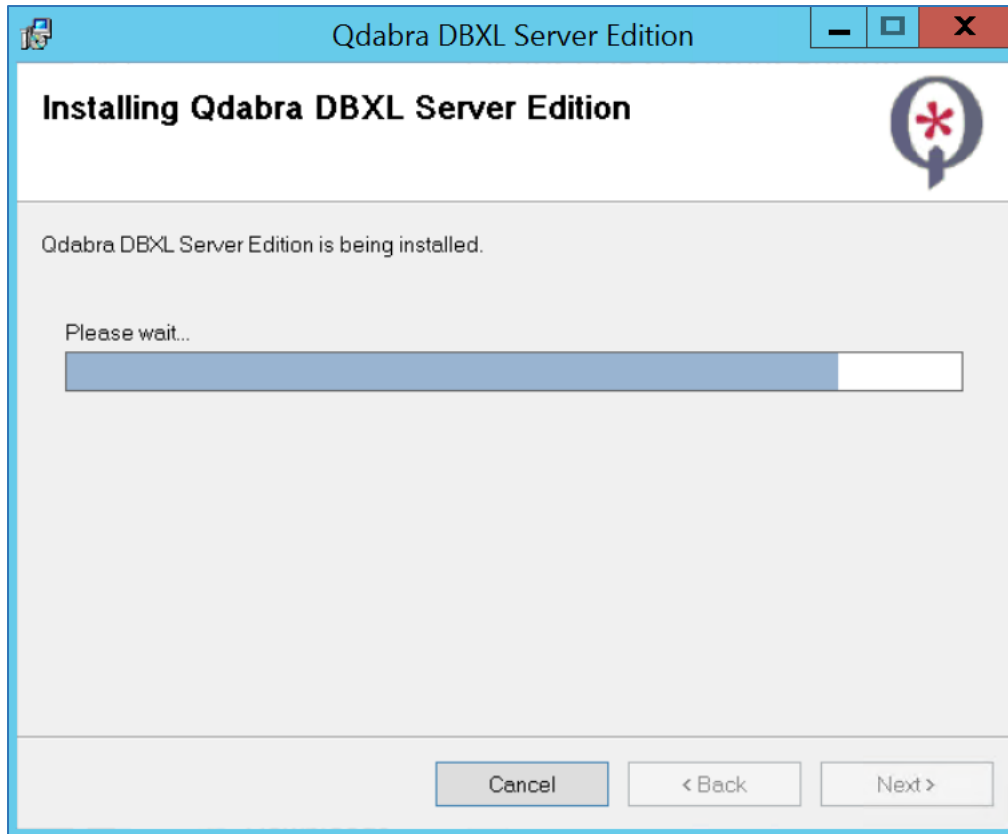
10. In the *Installation Address* window, select **Default Web Site** if that applies to you. Click **Next**.



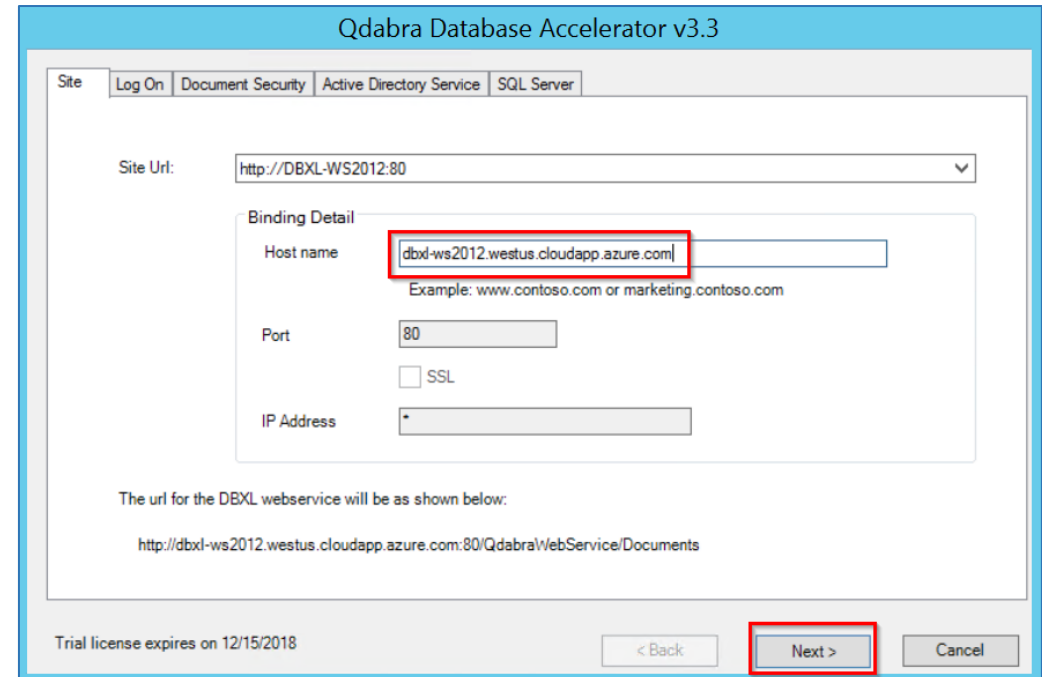
11. Click **Next** on the *Confirm Installation* window.



12. A progress bar shows the *Qdabra DBXL Server Edition* installation.



13. On the *Qdabra Database Accelerator v3.3* window, for **Site**:
 - **Site URL** - Enter your Site URL
 - **HostName** - Enter fully qualified host name (Add **.cloudapp.net** in the end of your Host name or whichever applies as your fully qualified host name in azure)
 - **Port** - 80



14. Click **Next**.
15. For **Log On**:
 - **Predefined**: Select **Network Service** from the dropdown.
16. Click **Next**.

Qdabra Database Accelerator v3.3

Site | Log On | Document Security | Active Directory Service | SQL Server

The Qdabra™ Database Accelerator will run under these account credentials. The setup process will attempt to add this logon to SQL Server if using Windows Authentication. You can change this account after installation by changing the DbxlAppPool identity in IIS. The account used must be a member of the IIS_WPG security group.

Predefined
 Configurable

Account:

Password:

Trial license expires on 12/15/2018

Qdabra Database Accelerator v3.3

Site | Log On | Document Security | Active Directory Service | SQL Server

DBXL Admin:

Enable Global User Permissions

Admin Group:

Writer Group:

Reader Group:

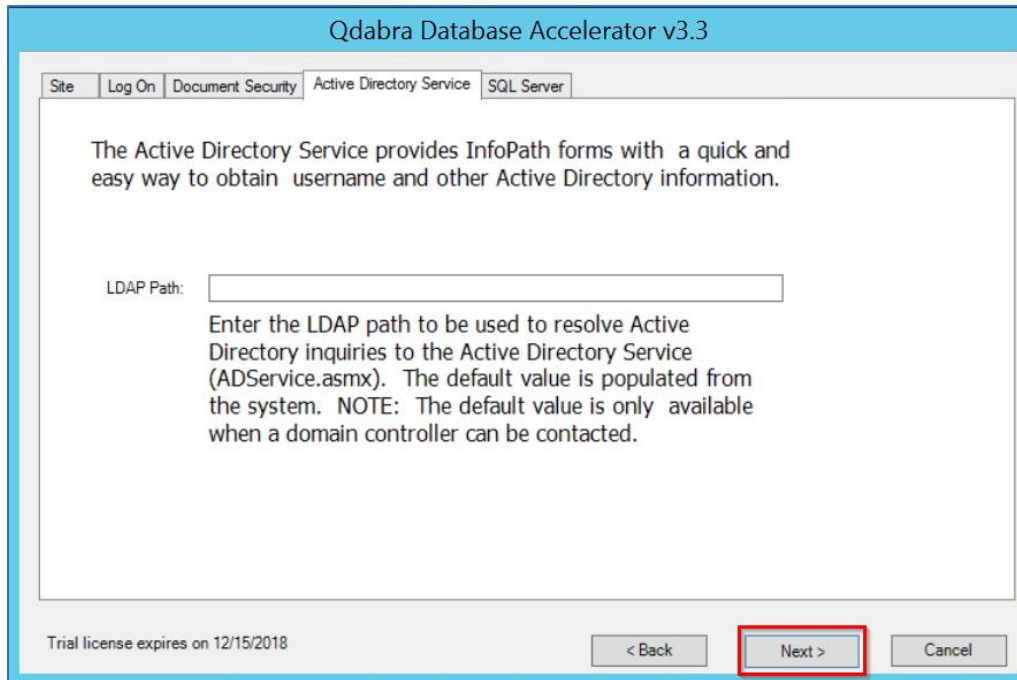
Browser Group:

Members of the DBXL Admin security group can add document types and manage access permissions to DBXL document types. When global permissions are enabled, users in these groups will have the given access to all documents stored in DBXL. For fine grained permissions, uncheck to disable global permissions and set

Trial license expires on 12/15/2018

17. For Document Security:
 DBXL Admin. Enter Dbxl Admin name
18. Click Next.

19. For the Active Directory Service, leave the *LDAP Path* blank. Click Next.

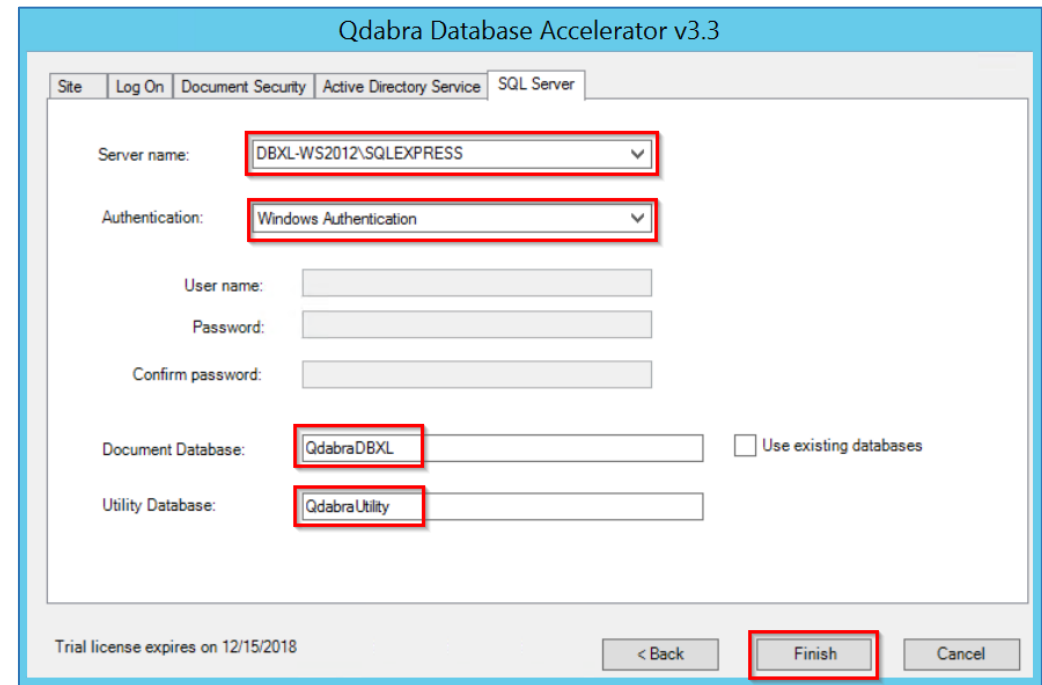


20. For **SQL Server**:

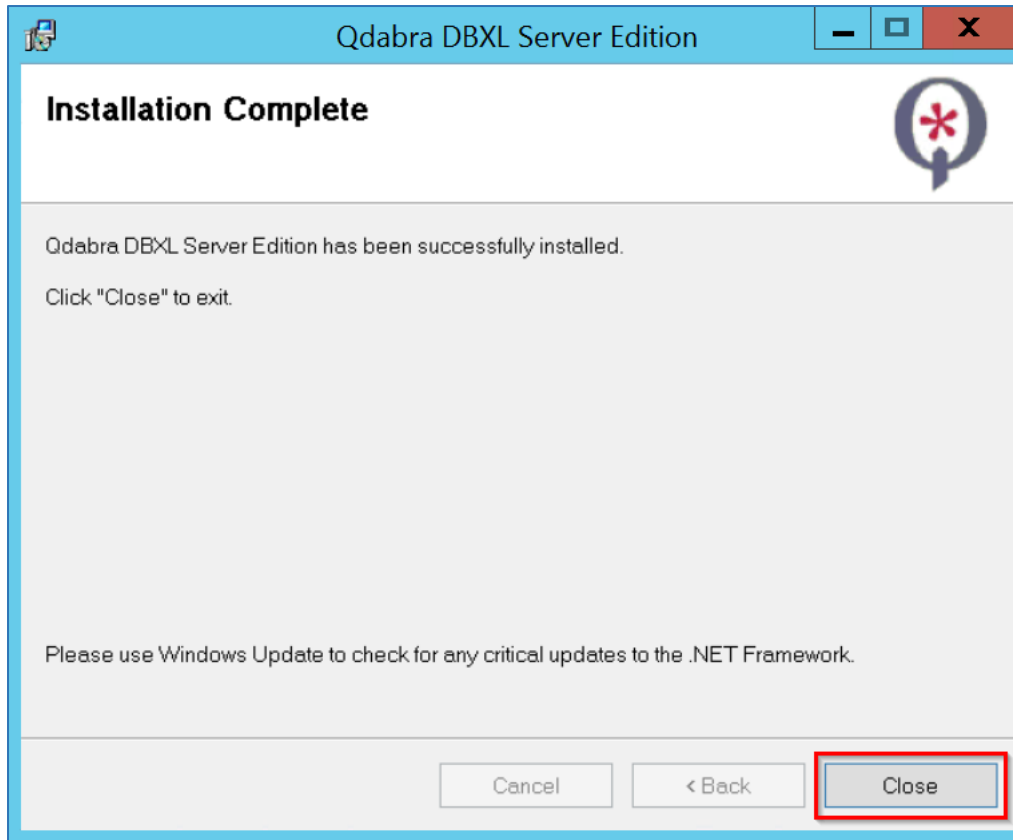
- **Server name** – Enter the SQL server name (eg. *(LOCAL)SQLEXPRESS*)
- **Authentication** – Select **Windows Authentication** from the drop-down.
- **Document Database** – QdabraDBXL
- **Utility Database** – QdabraUtility

Note: If an existing database already exists, select the check-box for “Use existing Databases”

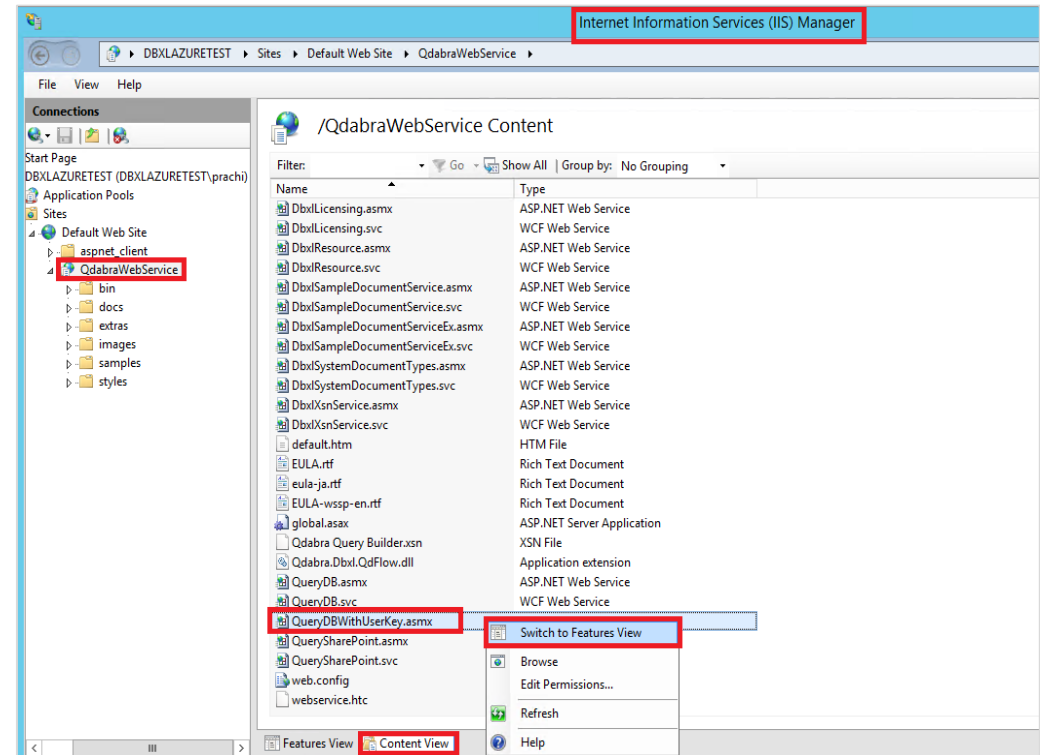
21. Click **Finish**.



22. When the installation has successfully completed, **Close** the **Qdabra DBXL Server Edition** window.



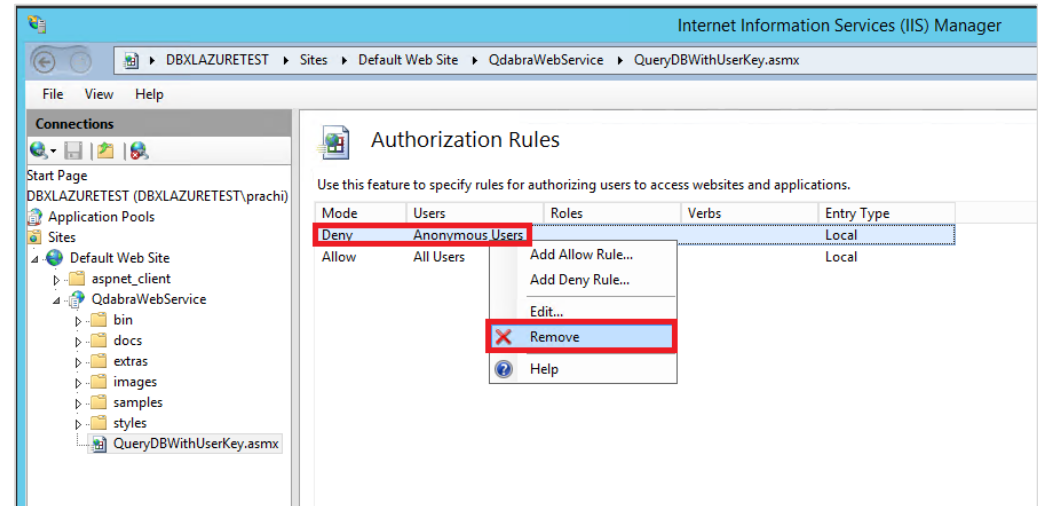
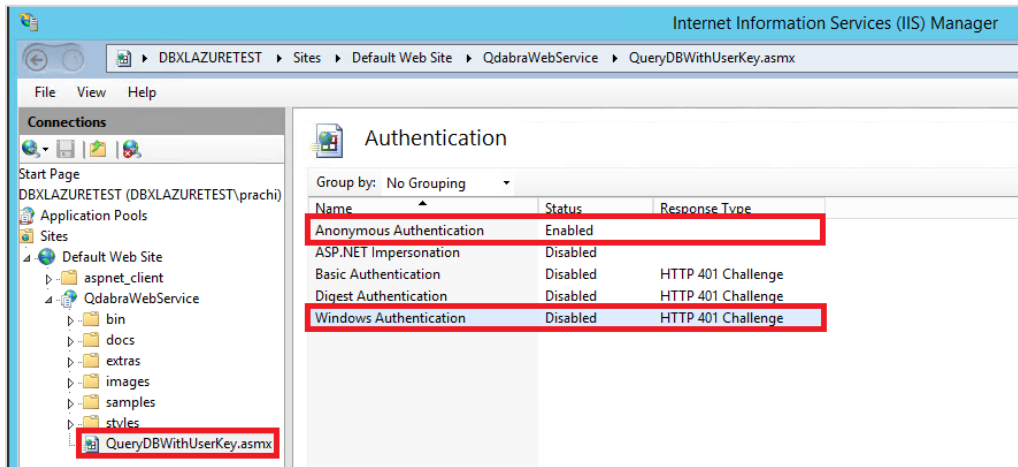
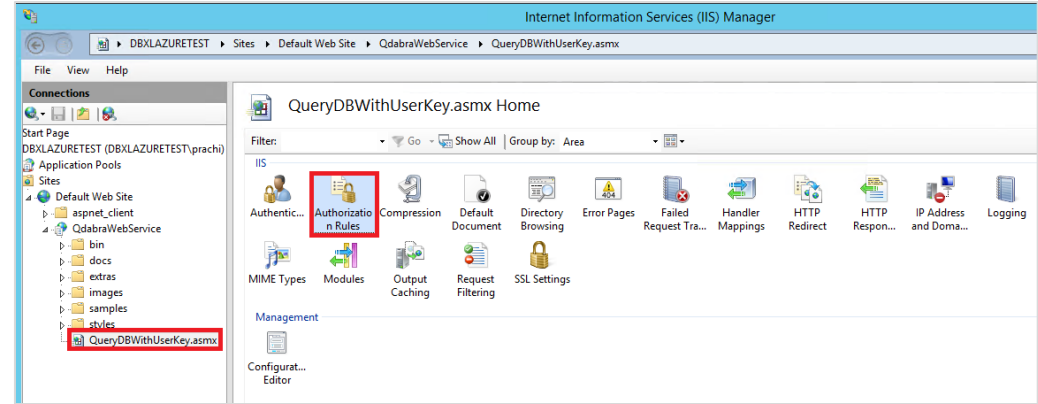
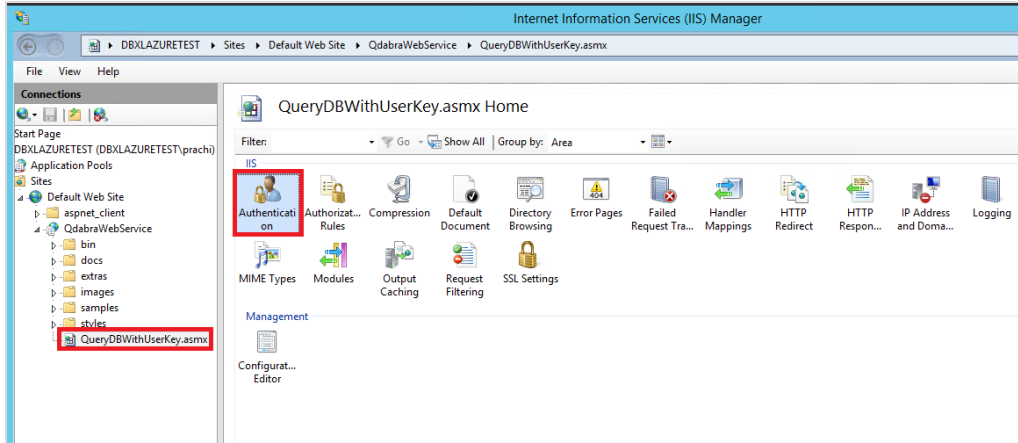
3. Scroll-down till you find *QueryDBWithUserKey.asmx*. Right-click on that and select "Switch to Feature View".



4. Double-click on **Authentication**

CONFIGURE QUERYDBWITHUSERKEY

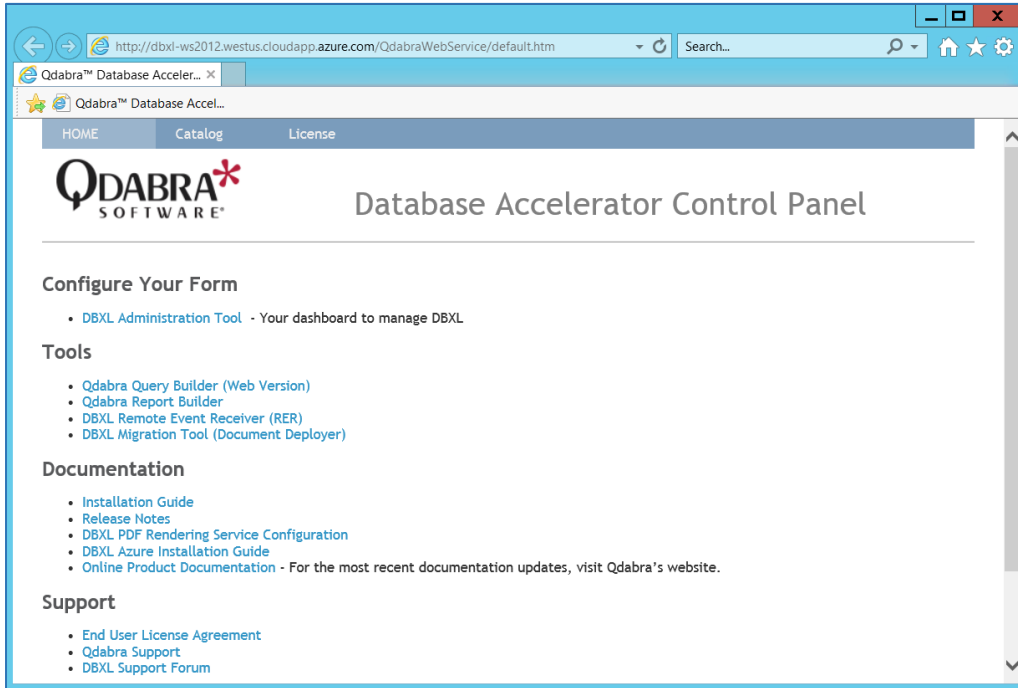
1. Open the **IIS manager** and expand **Sites**. Expand **Default Web Service** and select Qdabra Web Service.
2. Click on the **Content View** tab at the bottom.



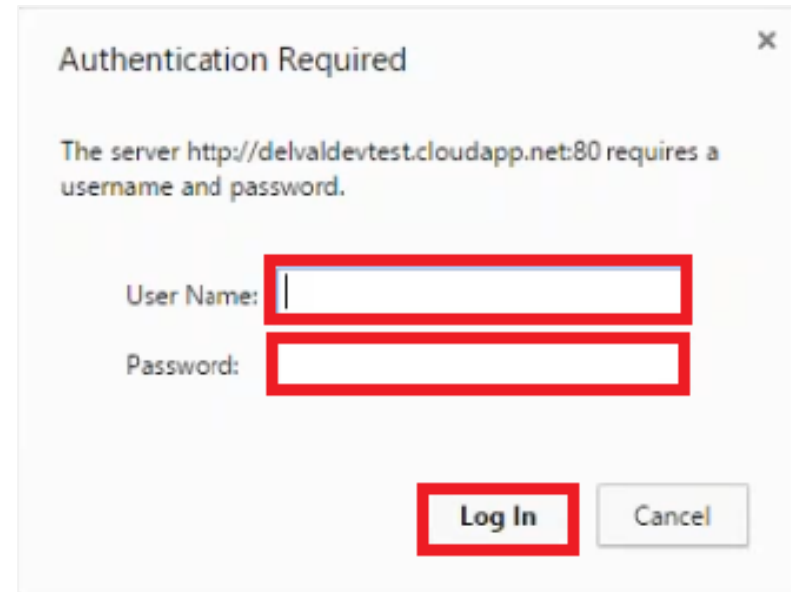
- To check if QueryDBWithUserKey.aspx is configured correctly, open Internet Explorer (IE).
- Enter the URL for the Qdabra Web service:
Syntax: <http://<YourVirtualMachine>/QdabraWebService>

Eg: <http://dbxlazure.cloudapp.net/QdabraWebService>

- If you do not get a prompt for credentials and the **DBXL Admin** page opens up, that means that the *QueryDBWithUserKey* service is configured as intended.

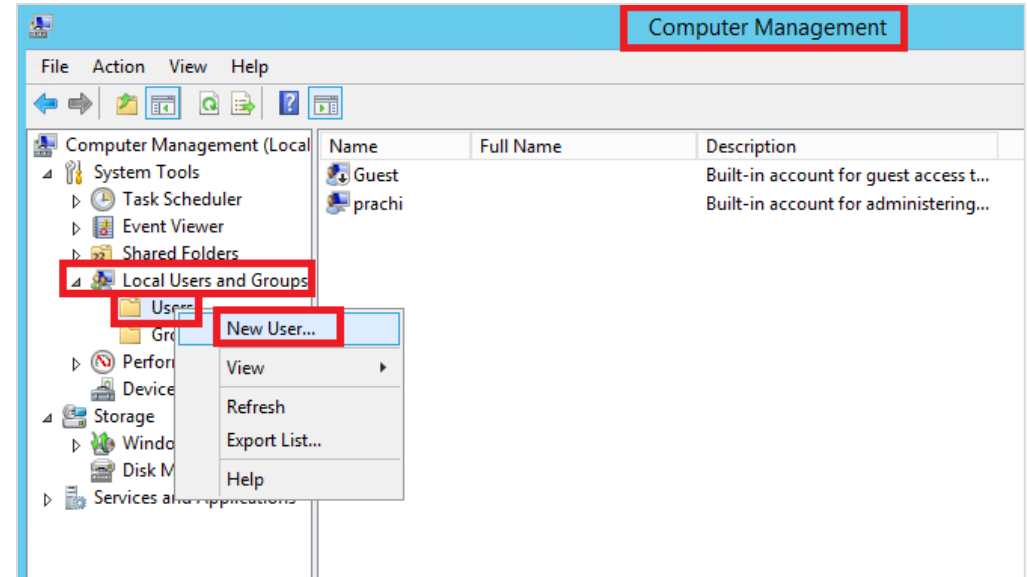
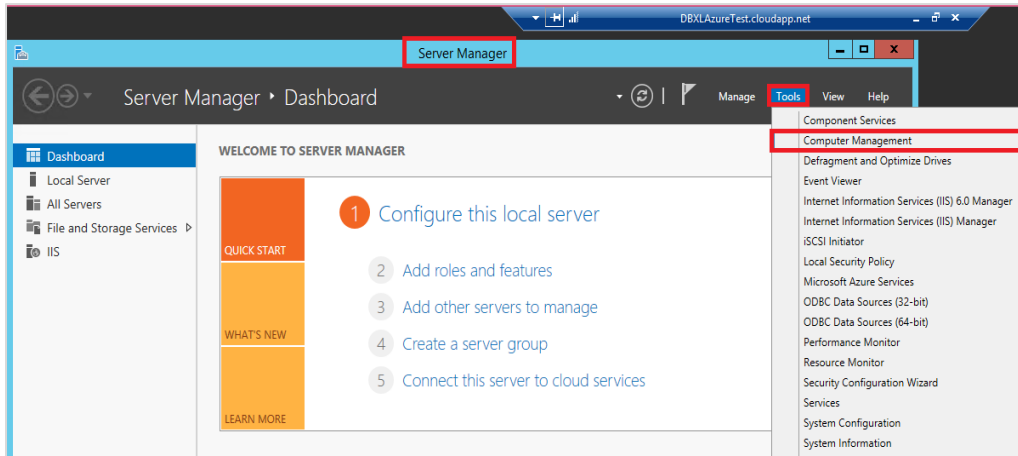


- You can use this URL whenever you are calling with the *Anonymous* connection by passing the key from Office 365.
- If you want to access the **Qdabra Web Service** without the *QueryDBWithUserKey.asmx* service from your desktop, you will be prompted for your credentials.



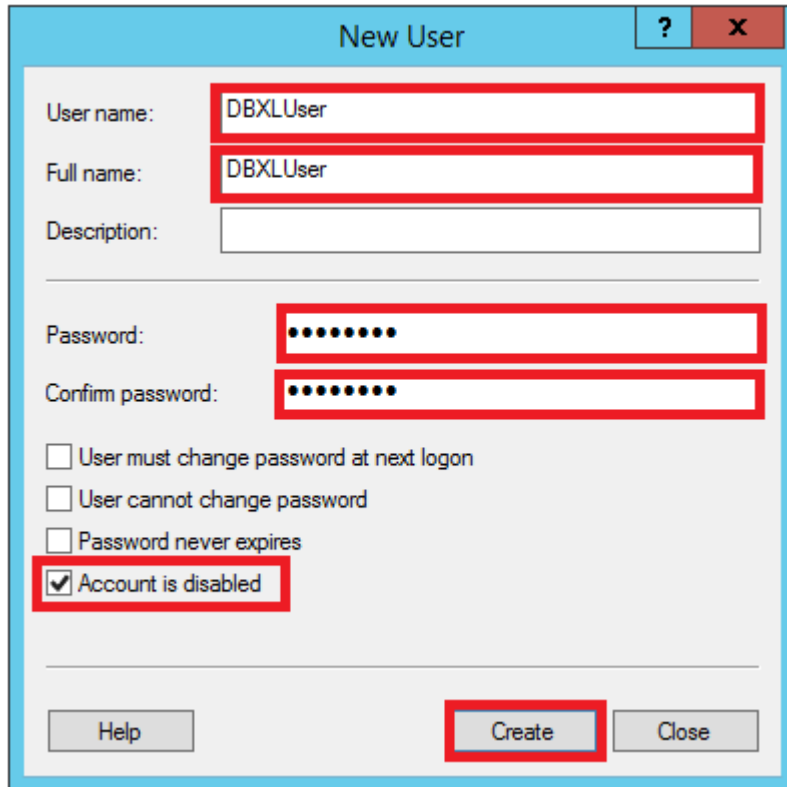
ADD A USER ACCOUNT

- Go to your server to create a new User Account.
- Open **Server Manager**. Click on *Tools* and select *Computer Management*.



3. On the *Computer Management* window, expand the "*Local Users and Group*".
4. Right-click on *Users* and select *New User*.

5. On the **New User** window:
 - User name* - Enter the User name for the shared user account (eg. DBXLUser)
 - Full name* - Enter name. This can be the same as User name (eg. DBXLUser)
 - Password* - Give a password for this user account
6. Click **Create**. Click **Close** on the next window.



New User

User name: DBXLUser

Full name: DBXLUser

Description:

Password: ●●●●●●

Confirm password: ●●●●●●

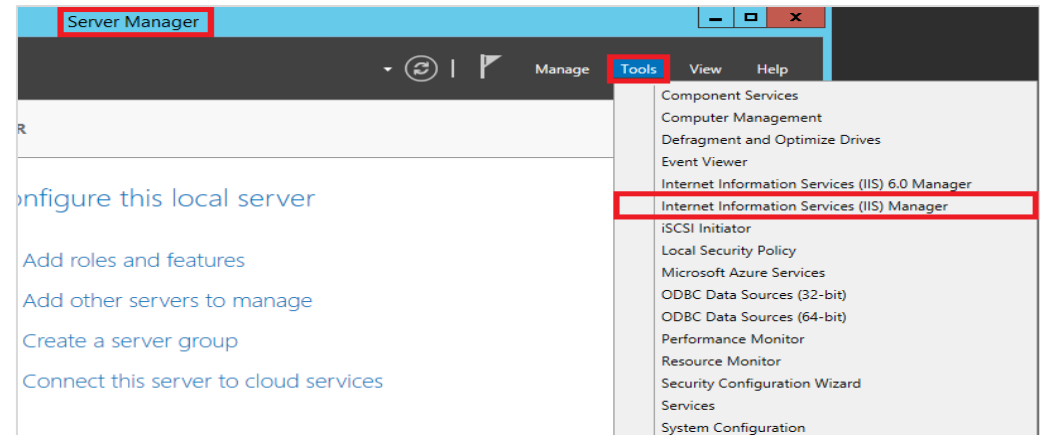
User must change password at next logon

User cannot change password

Password never expires

Account is disabled

Help Create Close

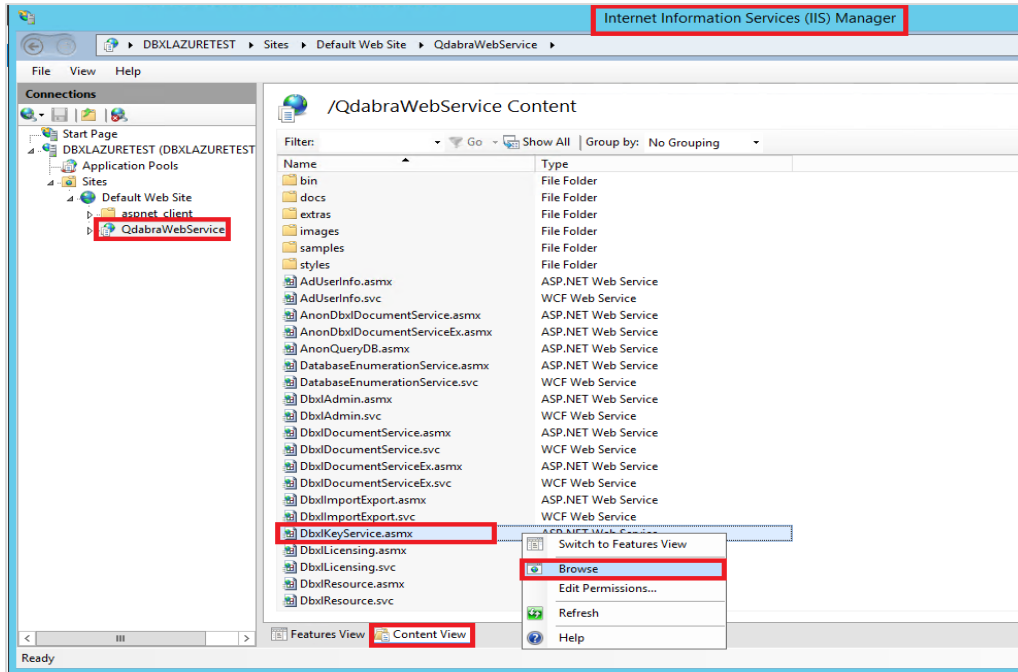


2. On the IIS, expand the *Server name*, expand *Sites*, expand *Default Web Service* and select **Qdabra Web Service**.
3. Click on the *Content View* tab at the bottom and look for the *DBXLKeyService.asmx*
4. Right-click on *DBXLKeyService.asmx* and select **Browse**.

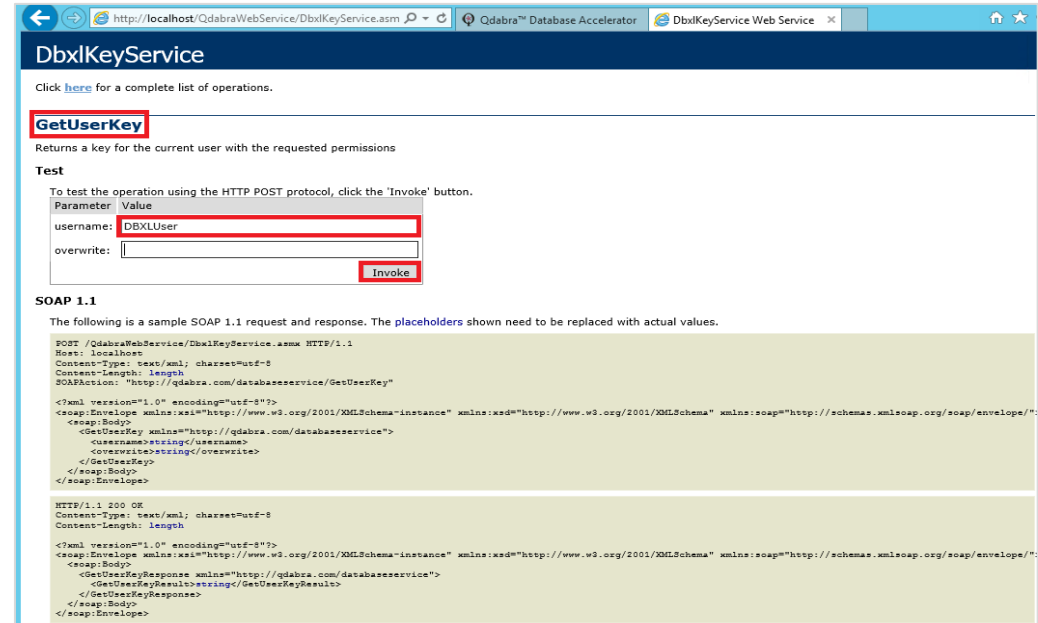
7. A new User Account is created.

GENERATE A KEY FOR THE NEW USER ACCOUNT

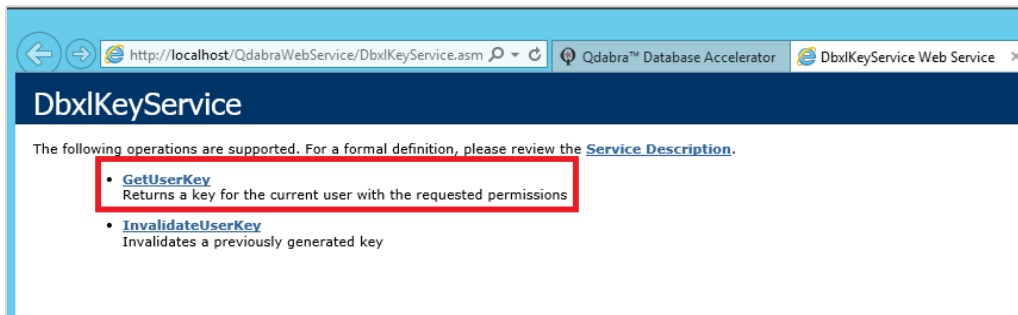
1. Open **Server Manager** from your Server system. Go to *Tools* and select **IIS Manager**.



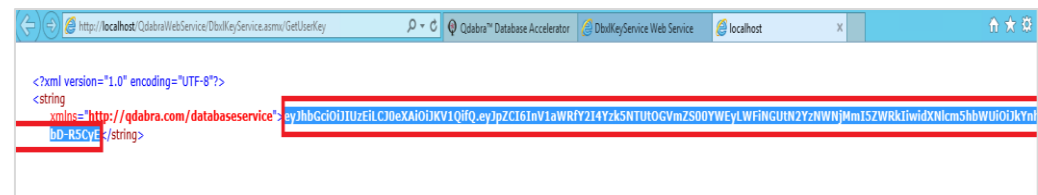
- To generate a user key for the new user account, enter the **Username** of the new user that you created in the "Adding a User Account" section.
- Click on **Invoke** button.



5. *DbxKeyService* opens up in the browser. Click on **GetUserKey**.

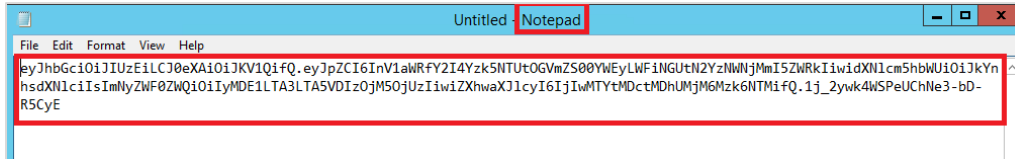


8. This will generate a Key



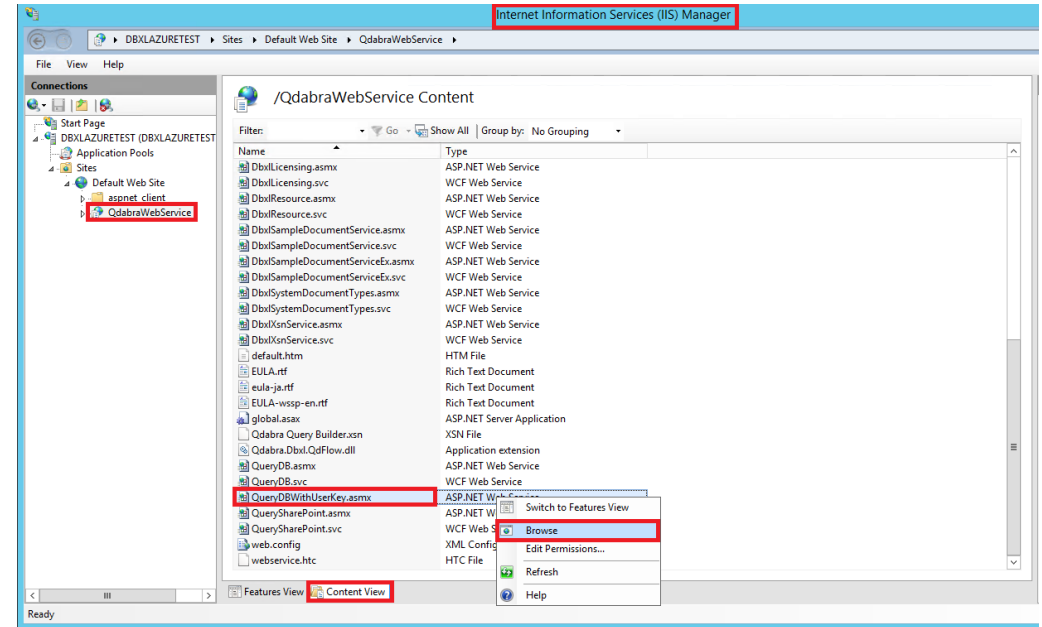
9. Copy the Key value and paste it on a *Notepad* window.

Note: You will need the key later, to verify that this Key can be used to query the database.

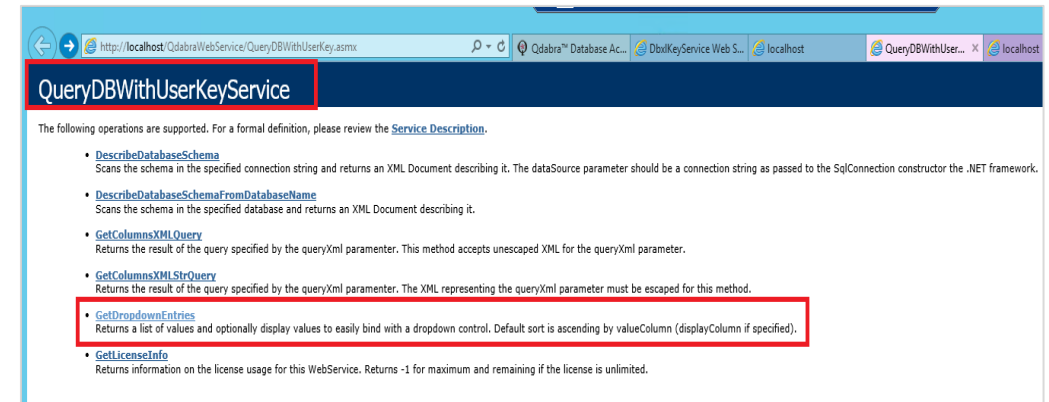


USING QUERYDBWITHUSERKEY SERVICE

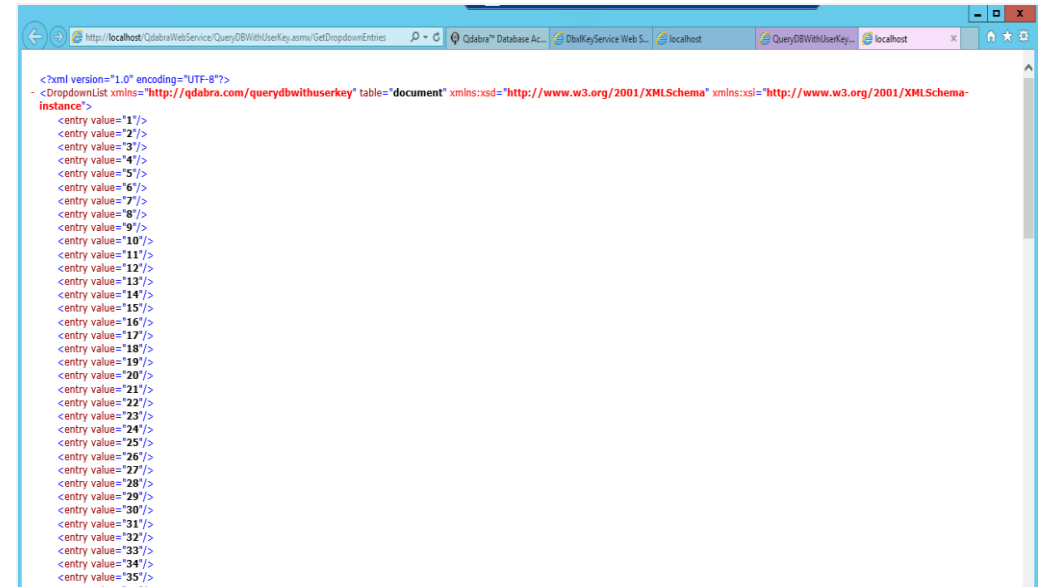
1. Open **IIS Manager** and select *Qdabra Web Service*. Click on *Content View* tab.
2. Look for *QueryDBWithUserKey.asmx* and right-click on it. Select **Browse**.



3. *QueryDBWithUserKeyService* opens up. Select **GetDropDownEntries**.



4. For **GetDropdownEntries**,
 - *Key* – Paste the key value that you copied on the Notepad earlier
 - *Database* – Enter "**#dbxdb#**"
 - *Table* – Enter "**document**"
 - *ValueColumn* – Enter "**docId**"
5. Click **Invoke**.



```
<?xml version="1.0" encoding="UTF-8"?>
<DropDownList xmlns="http://qdabra.com/querydbwithuserkey" table="document" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <entry value="1"/>
  <entry value="2"/>
  <entry value="3"/>
  <entry value="4"/>
  <entry value="5"/>
  <entry value="6"/>
  <entry value="7"/>
  <entry value="8"/>
  <entry value="9"/>
  <entry value="10"/>
  <entry value="11"/>
  <entry value="12"/>
  <entry value="13"/>
  <entry value="14"/>
  <entry value="15"/>
  <entry value="16"/>
  <entry value="17"/>
  <entry value="18"/>
  <entry value="19"/>
  <entry value="20"/>
  <entry value="21"/>
  <entry value="22"/>
  <entry value="23"/>
  <entry value="24"/>
  <entry value="25"/>
  <entry value="26"/>
  <entry value="27"/>
  <entry value="28"/>
  <entry value="29"/>
  <entry value="30"/>
  <entry value="31"/>
  <entry value="32"/>
  <entry value="33"/>
  <entry value="34"/>
  <entry value="35"/>
</DropDownList>
```

7. The installation is completed now. All you need to do is to create the table on *Microsoft SQL Server Management Studio*.

GetDropdownEntries

Returns a list of values and optionally display values to easily bind with a dropdown control.

Test

To test the operation using the HTTP POST protocol, click the 'Invoke' button.

Parameter	Value
key:	IMjM6Mzk6NTMifQ.1j_2ywk4WSPeUCHNe3-bD-R5CyE
database:	#dbxdb#
table:	document
valueColumn:	docId x
displayColumn:	<input type="text"/>
sortColumn:	<input type="text"/>
sortOrder:	<input type="text"/>
filterXml:	<input type="text"/>

6. If the *DropDownList* entries get generated, it means that the *QueryDBWithUserKey.asmx* service is working as intended.

STEPS FOR TROUBLESHOOTING

DBXL installation will fail when ASP.NET and other web services required by DBXL in this [section](#) is not installed.

As a workaround, the following steps will enable all the required features in DBXL. To do this, you will need to run a script in the PowerShell window. These are the install commands for Windows Server 2012 R2/Windows Server 2016/Windows 10.

1. On the Windows desktop, right-click Windows PowerShell on the taskbar, and then click Run as Administrator.
2. Copy and paste the following commands and press Enter.

```
Install-WindowsFeature Web-Server
Install-WindowsFeature Web-WebServer
Install-WindowsFeature Web-Common-Http
Install-WindowsFeature Web-Default-Doc
Install-WindowsFeature Web-Dir-Browsing
Install-WindowsFeature Web-Http-Errors
Install-WindowsFeature Web-Static-Content
Install-WindowsFeature Web-Http-Redirect
Install-WindowsFeature Web-Health
Install-WindowsFeature Web-Http-Logging
Install-WindowsFeature Web-Custom-Logging
Install-WindowsFeature Web-Log-Libraries
Install-WindowsFeature Web-Request-Monitor
Install-WindowsFeature Web-Http-Tracing
Install-WindowsFeature Web-Performance
```

```
Install-WindowsFeature Web-Stat-Compression
Install-WindowsFeature Web-Dyn-Compression
Install-WindowsFeature Web-Security
Install-WindowsFeature Web-Filtering
Install-WindowsFeature Web-IP-Security
Install-WindowsFeature Web-Url-Auth
Install-WindowsFeature Web-Windows-Auth
Install-WindowsFeature Web-App-Dev
Install-WindowsFeature Web-Net-Ext
Install-WindowsFeature Web-Net-Ext45
Install-WindowsFeature Web-AppInit
Install-WindowsFeature Web-Asp-Net
Install-WindowsFeature Web-Asp-Net45
Install-WindowsFeature Web-ISAPI-Ext
Install-WindowsFeature Web-ISAPI-Filter
Install-WindowsFeature Web-Mgmt-Tools
Install-WindowsFeature Web-Mgmt-Console
Install-WindowsFeature Web-Mgmt-Compat
Install-WindowsFeature Web-Metabase
Install-WindowsFeature Web-Lgcy-Mgmt-Console
Install-WindowsFeature Web-Lgcy-Scripting
Install-WindowsFeature Web-WMI
Install-WindowsFeature Web-Scripting-Tools
Install-WindowsFeature NET-Framework-Features
Install-WindowsFeature NET-Framework-Core
Install-WindowsFeature NET-Framework-45-Features
Install-WindowsFeature NET-Framework-45-Core
Install-WindowsFeature NET-Framework-45-ASPNET
Install-WindowsFeature NET-WCF-Services45
Install-WindowsFeature NET-WCF-TCP-PortSharing45
```

3. Wait until all the Windows Features are finished installing:

```

Administrator: Windows PowerShell

Success Restart Needed Exit Code  Feature Result
-----
Start Installation...
24%
[ooooooooooooooooooooooooooooo]

Success Restart Needed Exit Code  Feature Result
-----
True      No             Success      {Tracing}

PS C:\Users\dbx\admin> Install-WindowsFeature Web-Performance

Success Restart Needed Exit Code  Feature Result
-----
True      No             NoChangeNeeded {}

PS C:\Users\dbx\admin> Install-WindowsFeature Web-Stat-Compression

Success Restart Needed Exit Code  Feature Result
-----
True      No             NoChangeNeeded {}

PS C:\Users\dbx\admin> Install-WindowsFeature Web-Dyn-Compression

Success Restart Needed Exit Code  Feature Result
-----
True      No             Success      {Dynamic Content Compression}
  
```

- When installation is finished, verify installation by opening the All Servers page in Server Manager, selecting a server on which you installed roles and features, and viewing the Roles and Features tile on the page for the selected server.

SUPPORT

If you have encountered issues while installing DBXL, please contact Qdabra at support@qdabra.com.

For any other questions not covered in this document, please contact Qdabra Software.

CONTACT INFORMATION

Qdabra Software
 218 Main Street,
 Suite 731,
 Kirkland, WA 98033

Phone: 877.544.2389
 Email: Support@Qdabra.com
 Website: <http://www.qdabra.com>
 Community: <http://www.infopathdev.com>