

## Module 6: Creating web applications and site collections

# Lab A: Creating and configuring web applications

### Exercise 1: Creating a web application

#### ► Task 1: Configure DNS for the new web application

1. Sign in to the NYC-DC1 machine as **administrator@contoso.com** with the password **Pa\$\$w0rd**.
2. On the **Start** screen, type **DNS**.
3. In the **Search results** pane, click the **DNS Manager** icon.
4. In DNS Manager, expand **NYC-DC1**, expand **Forward Lookup Zones**, and then expand **Contoso.com**.
5. Right-click **Contoso.com**, and then click **New Host (A or AAAA)**.
6. In the **New Host** dialog box, in the **Name** text box, type **teams**, in the **IP address** text box, type **172.16.1.21**, and then click **Add Host**.
7. In the **DNS** dialog box, click **OK**, and then click **Done**.
8. Right-click **Forward Lookup Zones**, and then click **New Zone**.
9. In the **New Zone Wizard** dialog box, on the **Welcome to the New Zone Wizard** page, click **Next**.
10. On the **Zone Type** page, click **Next**.
11. On the **Active Directory Zone Replication Scope** page, click **Next**.
12. On the **Zone Name** page, in the **Zone name** text box, type **teams.contoso.com**, and then click **Next**.
13. On the **Dynamic Update** page, click **Next**.
14. On the **Completing the New Zone Wizard** page, click **Finish**.
15. Under **Forward Lookup Zones** in DNS Manager, expand **teams.contoso.com**, right-click **teams.contoso.com**, and then click **New Host (A or AAAA)**.
16. In the **New Host** dialog box, in the **IP address** text box, type **172.16.1.21**, and then click **Add Host**.
17. In the **DNS** dialog box, click **OK**.
18. In the **New Host** dialog box, click **Done**.
19. Close all open windows.

#### ► Task 2: Create service accounts for the web applications

1. On the **Start** screen, type **Active Directory Administrative Center**, and then press Enter.
2. In Active Directory Administrative Center, click **Contoso (local)**.
3. In the **Results** pane, select **IT**.
4. In the **Tasks** pane, under **IT**, click **New**, and then click **User**.
5. In the **Create User** dialog box, in the **Full name** text box, type **Teams Web App Service Account**.

6. In the **User UPN login** text box, type **SPTeamsWebApp**, and then verify that the **User SamAccountName login** text boxes have automatically populated with the corresponding user name.
7. In the **Password** box, type **Pa\$\$w0rd**, and then in the **Confirm password** box, type **Pa\$\$w0rd**.
8. Under **Password options**, select **Other password options**, select the **Password never expires**, select **User cannot change password**, and then click **OK**.

► **Task 3: Register new service accounts as SharePoint managed accounts**

1. Switch to the **NYC-SP1** virtual machine. If you are not already logged on, sign in as **administrator@contoso.com** with the password **Pa\$\$w0rd**.
2. On the **Start** screen, type **SharePoint 2016 Central Administration**, and then press Enter.
3. In Central Administration, click **Security**, and then on the **Security** page, under **General Security**, click **Configure managed accounts**.
4. On the **Managed Accounts** page, click **Register Managed Account**.
5. On the **Register Managed Account** page, in the **User name** text box, type **contoso\SPTeamsWebApp**, in the **Password** text box, type **Pa\$\$w0rd**, and then click **OK**.

► **Task 4: Create the web applications**

1. In Central Administration, click **Application Management**.
2. On the **Application Management** page, under **Web Applications**, click **Manage web applications**.
3. On the **Web Applications Management** page, on the ribbon, click **New**.
4. In the **Create New Web Application** dialog box, under **IIS Web Site**, in the **Name** text box, type **SharePointTeams - 80**.
5. In the **Port** text box, type **80**.
6. In the **Host Header** text box, type **teams.contoso.com**.
7. In the **Path** text box, type **C:\inetpub\wwwroot\wss\VirtualDirectories\teams80**.
8. Under **Application Pool**, in the **Application pool name** text box, type **SharePointTeams - 80**.
9. In the **Select a security account for this application pool** drop-down list, click **CONTOSO\SPTeamsWebApp**, and then click **OK**.
10. In the **Application Created** dialog box, click **OK**.
11. On the **Start** screen, type **IIS**, and then press Enter.
12. In Internet Information Services (IIS) Manager, expand **NYC-SP1 (CONTOSO\Administrator)**.
13. If the **Internet Information Services (IIS) Manager** dialog box appears, asking you about getting started with Microsoft Web Platform, click **No**.
14. Expand **Sites**, and click **SharePointTeams - 80**.
15. In the **Actions** pane, click **Bindings**.
16. In the **Site Bindings** dialog box, click **Add**.
17. In the **Add Site Binding** dialog box, in the **IP address** list, click **172.16.1.21**.

18. In the **Host name** text box, type **teams.contoso.com**, and then click **OK**.
19. In the **Site Bindings** dialog box, click **Close**.
20. Close Internet Information Services (IIS) Manager.

► **Task 5: Disable loopback checking for the required domains**

1. On the **Start** screen, type **regedit**, and then press Enter.
2. In Registry Editor, expand **HKEY\_LOCAL\_MACHINE**, expand **SYSTEM**, expand **CurrentControlSet**, expand **Control**, and then expand **Lsa**.
3. Under **Lsa**, click **MSV1\_0**, and then double-click **BackConnectionHostNames**.
4. In the **Edit Multi-String** dialog box, in the **Value data** text box, on a new line, type **teams.contoso.com**, and then press Enter.
5. Type **teams**, and press Enter.
6. Click **OK**.
7. If a warning dialog box appears, click **OK**. Close **Registry Editor**.
8. On the **Start** screen, type **Command Prompt**, and then press Enter.
9. At the command prompt, type the following command, and then press Enter.

```
iisreset /noforce
```

**Results:** After completing this exercise, you should have created a new web application on the SharePoint server. In addition, you should have created the necessary service account, and configured DNS, and then configured the SharePoint server to permit browsing custom domains on the SharePoint server.

## Exercise 2: Configuring a web application

► **Task 1: Add a new managed path to the teams.contoso.com web application**

1. In Central Administration, click **Application Management**, and then under **Web Applications**, click **Manage web applications**.
2. Click **SharePointTeams - 80**, and then on the ribbon, click **Managed Paths**.
3. In the **Define Managed Paths** dialog box, under **Add a New Path**, in the **Path** text box, type **team**.
4. In the **Type** list, ensure **Wildcard inclusion** is selected, click **Add Path**.
5. Under **Included Paths**, select the **sites** check box, and then click **Delete selected paths**.
6. Click **OK**.

► **Task 2: Configure the outgoing email address for the web applications**

1. In Central Administration, click **Application Management**, and then under **Web Applications**, click **Manage web applications**.
2. Click **SharePointTeams - 80**, and on the ribbon, in the **General Settings** drop-down button, click **Outgoing E-mail**.
3. In the **Web Application Outgoing E-Mail Settings** dialog box, in the **Outbound SMTP server** text box, type **mail.contoso.com**.
4. In the **From address** text box, type **teams@mail.contoso.com**, and then click **OK**.

► **Task 3: Prepare for the next lab**

- When you are finished with the lab, keep all of the virtual machines running. The virtual machines in their current state are required for the next lab.

**Results:** After completing this exercise, you should have configured outgoing email settings and managed paths for a web application.

## Lab B: Creating and configuring site collections

### Exercise 1: Creating and configuring site collections

#### ► Task 1: Use Central Administration to create a top-level site collection in the teams.contoso.com web application

1. In Central Administration, click **Application Management**.
2. On the **Application Management** page, under **Site Collections**, click **Create site collections**.
3. On the **Create Site Collection** page, under **Web Application**, verify that **http://teams.contoso.com** is selected. If it is not currently selected, click the current web application, click **Change Web Application**, and then click **SharePointTeams - 80**.
4. Under **Title and Description**, in the **Title** text box, type **Team Information**.
5. Under **Web Site Address**, in the **URL** list, ensure that **/** is selected.
6. Under **Template Selection**, verify that **Team Site** is selected.
7. Under **Primary Site Collection Administrator**, in the **User name** text box, type **CONTOSO\Administrator**, and then click **OK**.
8. On the **Top-Level Site Successfully Created** page, click **OK**.
9. Close all open windows.

#### ► Task 2: Use Windows PowerShell to create a host-named site collection in the teams.contoso.com web application

1. On the **Start** screen, type **SharePoint 2016 Management Shell**, and then press Enter.
2. At the command prompt, type the following command, and then press Enter.

```
New-SPSite http://teams -HostHeaderWebApplication http://teams.contoso.com -Name "Team Information" -OwnerAlias CONTOSO\Administrator -Template STS#0
```

#### ► Task 3: Configure quota, site use, and deletion policy, and enable Self-Service Site Creation

1. On the **Start** screen, type **SharePoint 2016 Central Administration**, and then press Enter.
2. In Central Administration, click **Application Management** and under **Site Collections**, click **Specify quota templates**.
3. Under **Template Name**, in the **New template name** text box, type **Team site quota**.
4. Under **Storage Limit Values**, select **Limit site storage to a maximum of:** and in the **Max Site Storage** text box, type **1000**.
5. Select **Send Warning E-mail when Site Collection storage reaches:** and in the **Warning Site Storage** text box, type **750**.
6. Click **OK**.
7. On the **Application Management** page, in Central Administration, under **Web Applications**, click **Manage web applications**.
8. Click **SharePointTeams -80**.

9. On the **Ribbon**, under **Web Applications**, click **General Settings**.
10. Under **Default Quota Template**, in the **Select quota template** drop-down box, select **Team site quota**.
11. Click **OK**.
12. Click **Application Management**.
13. Under **Site Collections**, click **Confirm site use and deletion**.
14. Under **Web Application**, verify that the **Web Application** <http://teams.contoso.com> is selected.
15. Select **Send e-mail notifications to owners of unused site collections**.
16. In the **Check for unused site collections, and send notices: Frequency** check box, select **Weekly**.
17. Select **Automatically delete the site collection if use is not confirmed**.
18. In the **Delete the site collection after sending: Number of notices** text box, type **24**.
19. Click **OK**.

► **Task 4: Enable Self-Service Site Creation**

1. In Central Administration, click **Application Management**.
2. Under **Site Collections**, click **Configure self-service site creation**.
3. Under **Web Application**, verify that <http://teams.contoso.com> is selected.
4. Under **Site Collections**, select **On**.
5. Under **Quota templates to apply**, verify that **Team site quota** is selected.
6. Copy the link under **Users can create their own Site Collections from:**.
7. Click **OK**.
8. Close the Internet Explorer window.

► **Task 5: Access the new site collections**

1. On the **Start** screen, click **Internet Explorer**.
2. In Internet Explorer, browse to <http://teams.contoso.com>.
3. In the **Windows Security** dialog box, in the **User name** text box, type **Administrator**, and in the **Password** text box, type **Pa\$\$w0rd**, and then click **OK**.
4. Click the **Settings** icon and then **Site settings**.
5. Under **Users and Permissions**, click **People and groups**.
6. Click **New**.
7. In the **Enter names, email addresses, or 'Everyone'** text box, type **Everyone**.
8. Click **Show Options**.
9. Clear the **Send an email invitation** option.
10. Click **Share**.
11. Click **Home**.
12. Click **Edit links**.
13. Click the **Add a link** link.

14. In the **Add a link** dialog box, in the **Text to display** text box, type **Self service site creation**.
15. In the **Address** text box, paste the site Self-Service Site Creation link you copied earlier.
16. Click **OK** and then click **Save**.
17. Close Internet Explorer.
18. On the **Start** screen, click **Internet Explorer**.
19. In Internet Explorer, browse to **http://teams.contoso.com**.
20. In the **Windows Security** dialog box, in the **User name** text box, type **megan**, in the **Password** text box, type **Pa\$\$w0rd**, and then click **OK**.
21. Click **Self service site creation**.
22. On the **Team Information New SharePoint Site** page, under **Title and Description**, in the **Title** text box, type **Cough Remedy Rx**.
23. Under **Web Site Address**, in the **URL name** text box, type **coughremedyRX**.
24. Verify that **Team Site** is selected under **Template Selection**.
25. Click **Create**.
26. On the **People and Groups Set Up Groups for this Site** page, click **OK**.

**Results:** After completing this exercise, you should have created site collections by using the Central Administration site, and created host-named site collections by using Windows PowerShell.

## Exercise 2: Creating site collections in new content databases

### ► Task 1: Use Windows PowerShell to create new content databases

1. On the **Start** screen, type **SharePoint 2016 Management Shell**, and then press Enter.
2. At the command prompt, type the following command, and then press Enter:

```
New-SPContentDatabase -Name WSS_Content_TeamArchive -WebApplication
http://teams.contoso.com
```

### ► Task 2: Use Windows PowerShell to create new site collections

- At the command prompt, type the following command, and then press Enter:

```
New-SPSite -Url "http://teams.contoso.com/team/archive" -ContentDatabase
WSS_Content_TeamArchive -Name "Team Archive" -OwnerAlias CONTOSO\Administrator -
Template "STS#0"
```

**Results:** After completing this exercise, you should have used Windows PowerShell to create new content databases and new site collections that use the new content databases.

### Exercise 3: Using Fast Site Collection Creation

#### ► Task 1: Enable Fast Site Collection Creation

- In SharePoint 2016 Management Shell, type the following command, and then press Enter:

```
Enable-SPWebTemplateForSiteMaster -Template "MPS#0"
```

#### ► Task 2: Create a new SharePoint Site Master

- In SharePoint 2016 Management Shell, type the following command, and then press Enter:

```
New-SPSiteMaster -ContentDatabase WSS_Content -Template "MPS#0"
```

#### ► Task 3: Create a new site by using the new master site

1. In SharePoint 2016 Management Shell, type the following command, and then press Enter:

```
New-SPSite -Url "http://sharepoint.contoso.com/sites/mymeetingsite" -Template "MPS#0"  
-ContentDatabase WSS_CONTENT -CreateFromSiteMaster -Name "My meeting site" -OwnerAlias  
"contoso\administrator"
```

2. On the **Start** screen, click **Internet Explorer**.
3. In Internet Explorer, browse to **http://sharepoint.contoso.com/sites/mymeetingsite**.
4. In the **Windows Security** dialog box, in the **User name** text box, type **Administrator**, and in the **Password** text box, type **Pa\$\$w0rd**, and then click **OK**.
5. Verify that you successfully reached the meeting site and it is named "My meeting site".

**Results:** After completing this exercise, you should have used Windows PowerShell to enable Fast Site Collection Creation and deployed a project site collection using the new capability.

#### ► Task 4: Prepare for the next module

When you are finished with the lab, revert all virtual machines to their initial state:

1. On the host computer, start **Hyper-V Manager**.
2. In the **Virtual Machines** list, right-click **20339-1A-NYC-DC1-C**, and then click **Revert**.
3. In the **Revert Virtual Machine** dialog box, click **Revert**.
4. Repeat steps 2 and 3 for **20339-1A-SP1-C** and **20339-1A-DB1-C**.