



## **Test Lab Guide: Demonstrate Intranet Collaboration with SharePoint Server 2013**

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# Test Lab Guide: Demonstrate Intranet Collaboration with SharePoint Server 2013

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**Applies to:** SharePoint Server 2013

**Summary:** This paper contains a brief introduction to SharePoint Server 2013 and step-by-step instructions for configuring and demonstrating the intranet collaboration features of SharePoint Server 2013 based on the [SharePoint Server 2013 Three-Tier Farm test lab guide](#). This paper does not describe how to install and configure SharePoint Server 2013 in a pilot or production environment. For more information, see [Install and deploy SharePoint 2013](#).

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November 28, 2012	Updated for the released version of SharePoint Server 2013 and with standard text, graphics, and sections.
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## Introduction

Microsoft® SharePoint® 2013 makes it easy for people to work together. SharePoint 2013 Products enables you and your employees to set up web sites to share information with others, manage documents from start to finish, and publish reports to help everyone make informed decisions. SharePoint 2013 consists of SharePoint 2013 Foundation and SharePoint 2013 Server.

SharePoint Server 2013 has the following capabilities:

- **Sites** Provides a single infrastructure for all your business web sites. Share documents with colleagues, manage projects with partners, and publish information to customers.
- **Communities** Delivers great collaboration tools—and a single platform to manage them. Make it easy for people to share ideas and work together the way they want.
- **Composites** Offers tools and components for creating do-it-yourself business solutions. Build no-code solutions to rapidly respond to business needs.
- **Content** Makes content management easy. Set up compliance measures “behind the scenes”—with features like document types, retention policies, and automatic content sorting—and then let people work naturally in Microsoft Office.
- **Insights** Gives everyone access to the information in databases, reports, and business applications. Help people locate the information to make good decisions.
- **Search** Cuts through the clutter. A unique combination of relevance, refinement, and social cues helps people find the information and contacts they need to get their jobs done.

For more information about Microsoft SharePoint Server 2013, see the [SharePoint 2013 Product Information site](#) and [SharePoint 2013 for IT pros](#).

## Test Lab Guides



Microsoft Test Lab Guides (TLGs) are a set of documents that step you through the configuration and demonstration of a Microsoft technology or product in a standardized test lab environment, which starts with a common base configuration that mimics a simplified intranet and the Internet. TLGs are designed to be modular, extensible, and stackable to configure complex, multi-product solutions. TLGs make learning about products, technologies, and solutions easier by providing that crucial hands-on, “I built it out myself” experience.

For more information, see [Test Lab Guides](http://microsoft.com/testlabguides) at <http://microsoft.com/testlabguides>.

A TLG stack is a set of dependent TLGs that, when configured from the bottom of the stack, create a meaningful test lab configuration. This TLG is at the top of the following TLG stack:



Demonstrate Intranet Collaboration for SharePoint Server 2013



Configure SharePoint Server 2013 in a Three-Tier Farm



Install SQL Server 2012 or SQL Server 2008 R2



Base Configuration

## In this guide

This paper explains how to set up multiple web applications and site collections for team sites, My Sites, and intranet content. It also demonstrates basic search capabilities in a test lab that is based on the [SharePoint Server 2013 Three-Tier Farm test lab guide](#). This paper configures web applications for intranet content, team sites, and My Sites in a manner similar to the [Corporate Portal with Path-based Sites for SharePoint Server 2013](#) technical diagram.



### Important

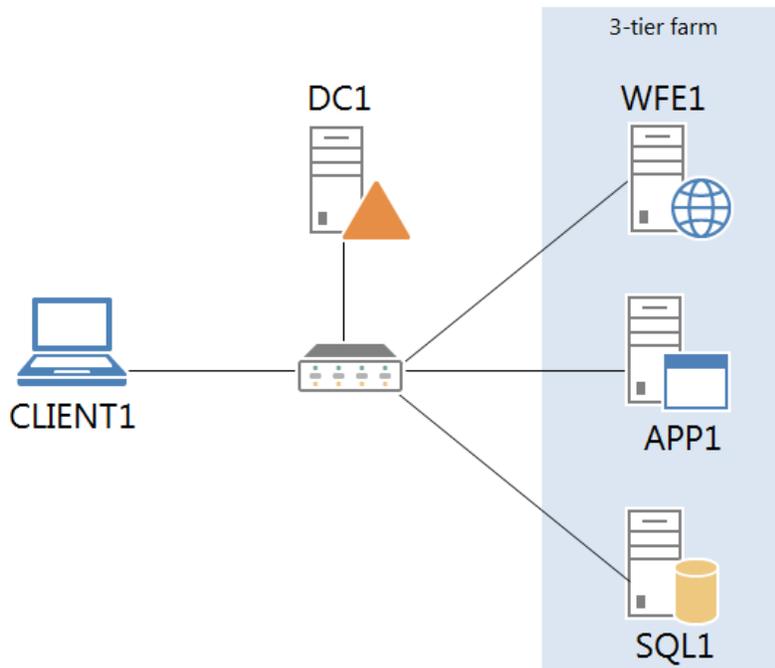
The following instructions configure a SharePoint Server 2013 test lab by using the minimum number of computers. Individual computers are needed to separate services provided on the network and to clearly show the desired functionality. This configuration is neither designed to reflect best practices nor does it reflect a desired or recommended configuration for a production network. The configuration, including IP addresses and all other configuration parameters, is designed only to work on a separate test lab network. Attempting to adapt this test lab configuration to a pilot or production deployment can result in configuration or functionality issues.

## Test lab overview

In this test lab, SharePoint Server 2013 intranet collaboration functionality in a three-tier farm is deployed by using the following:

- One computer running Windows® Server® 2008 R2 Enterprise Edition with Service Pack 1 named DC1 that is configured as an intranet domain controller, Domain Name System (DNS) server, DHCP server, and enterprise root certification authority (CA).
- One intranet member server running Windows Server 2008 R2 Enterprise Edition with Service Pack 1 named SQL1 that is configured as a SQL database server.
- One intranet member server running Windows Server 2008 R2 Enterprise Edition with Service Pack 1 named APP1 that is configured as the SharePoint Server 2013 application server.
- One intranet member server running Windows Server 2008 R2 Enterprise Edition with Service Pack 1 named WFE1 that is configured as the SharePoint front-end web server.
- One member client computer running Windows 7 Enterprise or Ultimate named CLIENT1.

The SharePoint Server 2013 test lab consists of a single subnet named Corpnet (10.0.0.0/24) that simulates a private intranet. Computers on the Corpnet subnet connect by using a hub or switch. See the following figure.



## Hardware and software requirements

The following are required components of the test lab:

- The product disc or files for Windows Server 2008 R2 with Service Pack 1.
- The product disc or files for Windows 7.
- The product disc or files for Microsoft SQL Server 2012 or Microsoft SQL Server 2008 R2 with Service Pack 1.
- The product disc or files for SharePoint Server 2013.
- Four computers that meet the minimum hardware requirements for Windows Server 2008 R2 Enterprise Edition.
- One computer that meets the minimum hardware requirements for Windows 7 Enterprise or Ultimate.

## Steps for Configuring the SharePoint Server 2013 Intranet Collaboration Test Lab

Use the following steps to set up the SharePoint Server 2013 intranet collaboration lab.

1. Set up the SharePoint Server 2013 3-tier farm test lab.
2. Configure the intranet collaboration features on APP1.

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To comment on this paper or request more documentation on these features, contact the [Microsoft Office and Servers Team](#) ([itspdocs@microsoft.com](mailto:itspdocs@microsoft.com)).

3. Demonstrate the intranet collaboration features on APP1.

**Note**

You must be logged on as a member of the Domain Admins group or a member of the Administrators group on each computer to complete the tasks described in this guide. If you cannot complete a task while you are logged on with an account that is a member of the Administrators group, try performing the task while you are logged on with an account that is a member of the Domain Admins group.

The following sections provide details about how to perform these steps.

## Step 1: Set up the SharePoint Server 2013 3-tier farm test lab

Set up the SharePoint Server 2013 three-tier farm test lab using the procedures in the [SharePoint Server 2013 Three-Tier Farm test lab guide](#).

## Step 2: Configure the intranet collaboration features on APP1

In this procedure, you install the intranet collaboration features of SharePoint Server 2013 on APP1. The intranet collaboration features demonstrated in this guide use four separate application pools that host four web applications to separate different parts of the logical architecture of the sites.

1. **Web Application 1** - Hosts only the Central Administration web site.

This web application is created in a previous step.

2. **Web Application 2** - Hosts the various shared service applications that provide functionality for the features in this guide.

This web application is created in a previous step.

3. **Web Application 3** - Hosts the Published Intranet Content.

This content will be provided in three site collections. You will create this web application in this step.

4. **Web Application 4** - Hosts the Team Sites and My Sites content.

The Team Sites will be presented in three site collections. You will create this web application in this step.

### ▶ To create a self-signed Server Certificate

1. Connect to APP1 in Internet Information Services (IIS) Manager.
2. In the features view, double-click **Server Certificates**.
3. In the Actions pane, click **Create Self-Signed Certificate**.
4. In the **Create Self-Signed Server Certificate** wizard, type "Contoso Server Certificate" in the box, and then click **OK** to create the server certificate.
5. This certificate must be copied to WFE1.

▶ **To enable DNS for the web applications**

1. On DC1 in **DNS Manager**, under **Forward Lookup Hosts**, select the constoso.com node.
2. In the right pane of DNS Manager right-click and select **New Host (A or AAAA)**.
3. In the **New Host** dialog, type "intranet" in the **Name** box.
4. Type **10.0.0.3** in the **IP address** box.
5. Click **Add Host**.
6. Repeat steps 2-5 for the values "teams" and "my" in the **Name** box.

▶ **To create the My Sites web application**

1. On the SharePoint Central Administration home page, in the **Application Management** section, click **Manage web applications**.
2. On the **Web Applications** tab, in the **Contribute** group of the ribbon, click **New**.
3. In the **Create New Web Application** dialog, in **IIS Web Site** section, select **Create a new IIS web site**.
4. In the **Name** box, type "My Sites".
5. In the **Port** box type "443".
6. In the **Host Header** box, type "my.contoso.com".
7. In the **Security Configuration** section, for the **Use Secure Sockets Layer (SSL)** option, select **Yes**.
8. In the **Public URL** section, make sure the value in the **URL** box is "https://my.contoso.com".
9. In the **Application Pool** section, select **Create new application pool** and type "Application Pool 4" in the **Application pool name** box.
10. In the **Database Name and Authentication** section, change the **Database Name** to "WSS\_Content\_ContosoMySites".
11. In the **Customer Experience Improvement Program** section, select **No**.
12. Click **OK** to create the web application.

▶ **To create the Published Intranet Content web application**

1. On the SharePoint Central Administration home page, in the **Application Management** section, click **Manage web applications**.
2. On the **Web Applications** tab, in the **Contribute** group of the ribbon, click **New**.
3. In the **Create New Web Application** dialog box, in the **IIS Web Site** section, select **Create a new IIS Web site**.
4. In the **Name** box, type "Published Intranet Content".
5. In the **Port** box type "443".
6. In the **Host Header** box, type "intranet.contoso.com".
7. In the **Security Configuration** section, for the **Use Secure Sockets Layer (SSL)** option, select **Yes**.

8. In the **Public URL** section, make sure the value in the **URL** box is "https://intranet.contoso.com".
9. In the **Application Pool** section, select **Create new application pool** and type "Application Pool 3" in the **Application pool name** box.
  - a. For **Select a security account for this application pool**, select **Configurable** and then select the farm account from the list.
10. In the **Database Name and Authentication** section, change the **Database Name** to "WSS\_Content\_Intranet".
11. In the **Customer Experience Improvement Program** section, select **No**.
12. Click **OK** to create the Web application.

### ▶ To create the Teams web application

1. On the SharePoint Central Administration home page, in the **Application Management** section, click **Manage web applications**.
2. On the **Web Applications** tab, in the **Contribute** group of the ribbon, click **New**.
3. In the **Create New Web Application** dialog box, in the **IIS Web Site** section, select **Create a new IIS Web site**.
4. In the **Name** box, type "Team Sites".
5. In the **Port** box type "443".
6. In the **Host Header** box, type "teams.contoso.com".
7. In the **Security Configuration** section, for the **Use Secure Sockets Layer (SSL)** option, select **Yes**.
8. In the **Public URL** section, make sure the value in the **URL** box is "https://teams.contoso.com".
9. In the **Application Pool** section, select **Use existing application pool** and select "Application Pool 4" from the list.
  - a. For **Select a security account for this application pool**, select **Configurable** and then select the farm account from the list.
10. In the **Database Name and Authentication** section, change the **Database Name** to "WSS\_Content\_Team1".
11. In the **Customer Experience Improvement Program** section, select **No**.
12. Click **OK** to create the web application.

### ▶ To create the content databases for the Teams Sites

1. On the Application Management page, in the **Databases** section, click **Manage content databases**.
2. On the **Content Databases** page, in the **Web Application** list, select the https://teams.contoso.com web application.
3. Click the WSS\_Content\_Team1 content database.
4. On the **Manage Content Database Settings** page, in the **Database Capacity Settings** section, in the **Number of sites before a warning event is generated** box, type "5".

5. In the **Maximum number of sites that can be created in this database** box, type "6".
6. Click **OK**.
7. On the **Content Databases** page, click **Add a content database**.
8. On the **Add Content Database** page, in the **Database Name and Authentication** section, type "WSS\_Content\_Team2" in the **Database Name** box.
9. In the **Database Capacity Settings** section, in the **Number of sites before a warning event is generated** box, type "5".
10. In the **Maximum number of sites that can be created in this database** box, type "6".
11. Click **OK** to create the content database.
12. On the **Content Databases** page, click the WSS\_Content\_Team2 database.
13. On the **Manage Content Database Settings** page, in the **Database Information** section, select **Offline** from the **Database status** list.
14. Click **OK**.
15. On the **Content Databases** page, click **Add a content database**.
16. On The **Add Content Database** page, in the **Database Name and Authentication** section, type "WSS\_Content\_Team3" in the **Database Name** box.
17. In the **Database Capacity Settings** section, in the **Number of sites before a warning event is generated** box, type "5".
18. In the **Maximum number of sites that can be created in this database** box, type "6".
19. Click **OK** to create the content database.
20. On the **Content Databases** page, click the WSS\_Content\_Team3 database.
21. On the **Manage Content Database Settings** page, in the **Database Information** section, select **Offline** from the **Database status** list.
22. Click **OK**.  
This will set all of the databases, except WSS\_Content\_Team1 to Offline.

### ▶ To create the Teams Sites quota template

1. On the **Application Management** page, in the **Site Collections** section, click **Specify quota templates**.
2. On the **Quota Templates** page, in the **Template Name** section, select **Create a new template**, and select **Personal Site** from the **Template to start from** list.
3. Type "Contoso Team Sites" in the **New template name** box.
4. In the **Storage Limit Values** section, type "30000" in the **Limit site storage to a maximum of** box and "20000" in the **Send warning E-mail when Site Collection storage reaches** box.
5. Click **OK** to create the template.

► **To create the Team Sites site collections on APP1**

1. On the **Application Management** page, in the **Site Collections** section, click **Create site collections**.
2. On the **Create Site Collection** page, ensure that **https://teams.contoso.com** is selected in the **Web Application** list.
3. In the **Title and Description** section, in the **Title** box, type "Team Sites".
4. In the **Web Site Address** section, select "/" in the list.
5. In the **Primary Site Collection Administrator** and **Secondary Site Collection Administrator** sections, type "User1" in the boxes.
6. In the **Quota Template** section, select **Contoso Team Sites** from the **Select a quota template** list.
7. Click **OK** to create the top-level site collection.  
This creates the top-level site collection under which the three division sites are hosted. This site collection will be created in the WSS\_Content\_Team1 content database.
8. On the **Top-Level Site Successfully Created** page, click **OK**.
9. On the **Application Management** page, in the **Site Collections** section, click **Create site collections**.
10. On the **Create Site Collection** page, ensure that **https://teams.contoso.com** is selected in the **Web Application** list.
11. In the **Title and Description** section, in the **Title** box, type "Team 1".
12. In the **Web Site Address** section, select "/sites/" in the list and type "team1".
13. In the **Primary Site Collection Administrator** and **Secondary Site Collection Administrator** sections, type "User1" in the boxes.
14. In the **Quota Template** section, select **Contoso Team Sites** from the **Select a quota template** list.
15. Click **OK** to create the site collection.  
This site collection will be created in the WSS\_Content\_Team1 content database.
16. On the **Top-Level Site Successfully Created** page, click **OK**.
17. On the **Application Management** page, in the **Databases** section, click **Manage content databases**.
18. On the **Content Databases** page, click the WSS\_Content\_Team2 database.
19. On the **Manage Content Database Settings** page, in the **Database Information** section, select **Ready** from the **Database status** list.
20. Click **OK**.
21. On the **Content Databases** page, click the WSS\_Content\_Team1 database.
22. On the **Manage Content Database Settings** page, in the **Database Information** section, select **Offline** from the **Database status** list.
23. Click **OK**.
24. On the **Application Management** page, in the **Site Collections** section, click **Create site collections**.
25. On the **Create Site Collection** page, ensure that **https://teams.contoso.com** is selected in the **Web Application** list.

26. In the **Title and Description** section, in the **Title** box, type "Team 2".
27. In the **Web Site Address** section, select "/sites/" and type "team2".
28. In the **Primary Site Collection Administrator** and **Secondary Site Collection Administrator** sections, type "User1" in the boxes.
29. In the **Quota Template** section, select **Contoso Team Sites** from the **Select a quota template** list.
30. Click **OK** to create the site collection.  
This site collection will be created in the WSS\_Content\_Team1 content database.
31. On the **Top-Level Site Successfully Created** page, click **OK**.
32. On the **Application Management** page, in the **Databases** section, click **Manage content databases**.
33. On the **Content Databases** page, click the WSS\_Content\_Team3 database.
34. On the **Manage Content Database Settings** page, in the **Database Information** section, select **Ready** from the **Database status** list.
35. Click **OK**.
36. On the **Content Databases** page, click the WSS\_Content\_Team2 database.
37. On the **Manage Content Database Settings** page, in the **Database Information** section, select **Offline** from the **Database status** list.
38. Click **OK**.
39. On the **Application Management** page, in the **Site Collections** section, click **Create site collections**.
40. On the **Create Site Collection** page, ensure that **https://teams.contoso.com** is selected in the **Web Application** list.
41. In the **Title and Description** section, in the **Title** box, type "Team 3".
42. In the **Web Site Address** section, select "/sites/" and type "team3".
43. In the **Primary Site Collection Administrator** and **Secondary Site Collection Administrator** sections, type "User1" in the boxes.
44. In the **Quota Template** section, select **Contoso Team Sites** in the **Select a quota template** list.
45. Click **OK** to create the site collection.  
This site collection will be created in the WSS\_Content\_Team1 content database.
46. On the **Top-Level Site Successfully Created** page, click **OK**.
47. On the **Application Management** page, in the **Databases** section, click **Manage content databases**.
48. On the **Content Databases** page, click the WSS\_Content\_Team1 database.
49. On the **Manage Content Database Settings** page, in the **Database Information** section, select **Ready** from the **Database status** list.
50. Click **OK**.
51. On the **Content Databases** page, click the WSS\_Content\_Team2 database.
52. On the **Manage Content Database Settings** page, in the **Database Information** section, select **Ready** from the **Database status** list.
53. Click **OK**.

▶ **To create the My Sites site collections on APP1**

1. On APP1, on the SharePoint Central Administration home page, in the **Application Management** section, click **Create Site Collections**.
2. On the **Create Site Collection** page, ensure that **https://my.contoso.com** is selected in the **Web Application** list.
3. In the **Title and Description** section, in the **Title** box, type "My Sites".
4. In the **Web Site Address** section, select "/".
5. In the **Template Selection** section, click the **Enterprise** tab and then click **My Site Host**.
6. In the **Primary Site Collection Administrator** and **Secondary Site Collection Administrator** sections, type "User1" in the boxes.
7. In the **Quota Template** section, select **Personal Site** from the list.
8. Click **OK** to create the My Site site collection.

▶ **To create the Published Intranet Content site collection on APP1**

1. On APP1, on the SharePoint Central Administration home page, in the **Application Management** section, click **Create site collections**.
2. On the **Create Site Collection** page, ensure that **https://intranet.contoso.com** is selected in the **Web Application** list.
3. In the **Title and Description** section, in the **Title** box, type "Contoso Intranet".
4. In the **Web Site Address** section, select "/".
5. In the **Primary Site Collection Administrator** and **Secondary Site Collection Administrator** sections, type "User1" in the boxes.
6. Click **OK** to create the top-level site collection.  
This will create the top-level site collection under which the three division sites will be hosted.
7. On the **Top-Level Site Successfully Created** page, click **OK**.

▶ **To create the Intranet sites on CLIENT1**

1. On CLIENT1, start Internet Explorer, type "https://intranet.contoso.com/" in the address bar, and press ENTER.  
If you receive an error about the SSL certificate, click **Continue to this website**. This error might appear because you are using a self-signed certificate.
2. On the Contoso Intranet page, click **Site Contents** on the Quick Launch, and then click **New subsite** on the **Site Contents** page.
3. On the **New SharePoint Site** page, in the **Title and Description** section, type "Human Resources" in the **Title** box.
4. In the **Web Site Address** section, type "hr" in the **URL name** box.
5. Click **Create** to create the new site.  
The Human Resources site will appear.
6. Type "https://intranet.contoso.com/" in the address bar of Internet Explorer, and then press ENTER.

7. On the Contoso Intranet page, click **Site Contents** on the Quick Launch, and then click **New subsite** on the **Site Contents** page.
8. On the **New SharePoint Site** page, in the **Title and Description** section, type "Facilities" in the **Title** box.
9. In the **Web Site Address** section, type "facilities" in the **URL name** box.
10. Click **Create** to create the new site.  
The Facilities site will appear.
11. Type "https://intranet.contoso.com/" in the address bar of Internet Explorer, and then press ENTER.
12. On the Contoso Intranet page, click **Site Contents** on the Quick Launch, and then click **New subsite** on the **Site Contents** page.
13. On the **New SharePoint Site** page, in the **Title and Description** section, type "Purchasing" in the **Title** box.
14. In the **Web Site Address** section, type "purchasing" in the **URL name** box.
15. Click **Create** to create the new site.  
The Purchasing site will appear.

## Step 3: Demonstrate the intranet collaboration features on APP1

In this procedure, you demonstrate the intranet collaboration features of SharePoint Server 2013 on APP1. The intranet collaboration features that are demonstrated in this guide use four separate application pools that host four web applications to separate different parts of the logical architecture of the sites.

### ► To confirm the Intranet Sites on CLIENT1

1. On CLIENT1, in the address bar of Internet Explorer, type "https://intranet.contoso.com/hr".  
If you receive an error about the SSL certificate, click **Continue to this website**. This error might appear because you are using a self-signed certificate.
2. This first time that you browse to one of the sites, you must install the self-signed SSL certificate. To do this click **Certificate Error** in the Internet Explorer tool bar.
3. Click **View certificates**.
4. In the **Certificates** dialog box, click **Install Certificate**.
5. In the **Certificate Import Wizard**, click **Next** three times.  
The wizard will install the certificate. You only have to do this once for CLIENT1.
6. The Human Resources page might take a minute to render for the first time.
7. Browse to the "https://intranet.contoso.com/facilities" and "https://intranet.contoso.com/purchasing" sites.

### ► To confirm the Team Sites on CLIENT1

1. On CLIENT1, in the address bar of Internet Explorer, type "https://teams.contoso.com/sites/team1".

If you receive an error about the SSL certificate, click **Continue to this website**. This error might appear because you are using a self-signed certificate.

2. The Team 1 page might take a minute to render for the first time.
3. Browse to the "https://teams.contoso.com/sites/team2" and "https://teams.contoso.com/sites/team3" pages.

#### ▶ To confirm My Sites on CLIENT1

1. On CLIENT1, in the address bar of Internet Explorer, type "https://my.contoso.com/". A My Site will be created for User1. It might take a few minutes for the page to be created.
2. The resulting URL will be "https://my.contoso.com/\_layouts/15/start.aspx#/default.aspx".

#### ▶ To demonstrate search on CLIENT1

1. On CLIENT1, in the address bar of Internet Explorer, type "https://teams.contoso.com/sites/team1".
2. On the Team 1 home page, click **Site Contents** on the Quick Launch, click **Site Pages** on the **Site Contents** page. and then click **New Wiki page**.
3. On the **New Item** page, type "Better Communications" in the **New page name** box and click **Create** to create the new site page.
4. Type "Better communications start with Microsoft SharePoint sites." in the box and on the ribbon, click the **Save & Close** icon.  
You must run a crawl before search will find the new page.
5. On APP1, in Central Administration, in the **Application Management** section, click **Manage service applications**.
6. On the **Service Applications** page, click **Search service application**.
7. On the **Search Service Application** page, on the Quick Launch, click **Content Sources**.
8. On the **Manage Content Sources** page, click **Local SharePoint sites** from the content sources list.
9. On the **Edit Content Source** page, in **Start Addresses**, make sure that the following URLs appear:
  - a. https://intranet.contoso.com
  - b. https://my.contoso.com
  - c. https://teams.contoso.com
10. In **Crawl Schedules**, click **Create schedule** under **Full crawl**.
11. In the **Manage Schedules** dialog, click **OK**.
12. Click **Create schedule** under **Incremental crawl**.
13. In the **Manage Schedules** dialog, under **Settings**, select the **Repeat within the day** checkbox and type "60" in the **Every** box and "90" in the **For** box.
14. Click **OK** to save settings.
15. On the Edit Content Source page, in **Start Full Crawl**, select the **Start full crawl of this content source** checkbox and click **OK** to save the crawl settings and begin a full crawl.
16. The **Manage Content Sources** page will display the progress of the crawl. To update the page, click **Refresh**. When the status is "Idle" the crawl has completed.

17. After the crawl has completed, on CLIENT1, in the address bar of Internet Explorer, type "https://teams.contoso.com/sites/team1".
18. On the Team 1 home page, type "proposal" in the search box and press ENTER.

## Snapshot the Configuration

This completes the SharePoint Server 2013 intranet collaboration test lab. To save this configuration so that you can quickly return to a working configuration from which you can test other SharePoint TLGs or test lab extensions or for your own experimentation and learning, do the following:

1. On all physical computers or virtual machines in the test lab, close all windows and then perform a graceful shutdown.
2. If your lab is based on virtual machines, save a snapshot of each virtual machine and name the snapshots **SP2013IntranetCollab**. If your lab uses physical computers, create disk images to save the SharePoint Server 2013 intranet collaboration test lab configuration.

## Additional Resources

For more information about SharePoint Server 2013, see the [SharePoint 2013 product information web page](#) and [SharePoint 2013 for IT pros](#).

To provide the authors of this guide with feedback or suggestions for improvement, send an email message to [itspdocs@microsoft.com](mailto:itspdocs@microsoft.com).

To submit your questions about this test lab or SharePoint 2013, see the [SharePoint 2013 for IT Professionals Forum](#).

For a list of TLGs related to this test lab or extensions to demonstrate additional functionality, see [SharePoint Server 2013 Test Lab](#) in the TechNet Wiki.

Microsoft strongly encourages you to develop and publish your own TLG content for SharePoint Server 2013, either in the TechNet Wiki (example: [Test Lab Guide: Demonstrate Remote Access VPNs](#)) or in your own publishing forum (example: [Test Lab Guide \(Part 1\) - Demonstrate TMG PPTP, L2TP/IPsec and SSTP Remote Access VPN Server](#)). If you want to publish your TLG content in the TechNet wiki, see the [How to contribute series of TLG blog posts](#) for information about the types of content you can create and for links to templates and guidance.

For a list of additional Microsoft TLGs, see [Test Lab Guides](#) in the TechNet Wiki.