



Xerox® DocuShare® Flex Content Management Installation Guide

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System requirements

Before installing Xerox® DocuShare® Flex, go to www.docushare.com for the latest system requirements.

Operating systems

Microsoft Azure Cloud Platform

- CentOS 7
- Windows Server 2012 R2

Server

- Dual 3.0 GHz Quad Core processor or better (64 bit)
- Minimum of 7 GB RAM
- Minimum of 20 GB of free disk space
- Ethernet network interface

Web servers

- CentOS: Apache 2.4.6
- Windows: Apache 2.4.25

Databases

- Microsoft SQL Server 2016 (64 bit)
- PostgreSQL 9.6.1

LDAP servers

- Microsoft Active Directory Server
- Apache Directory Server

Web browsers

- Microsoft Internet Explorer 11
- Apple Safari: latest version on OSX and iOS
- Google Chrome: latest version

Document viewer server

Windows operating systems

- Windows Server 2008 R2 SP1 (64 bit)
- Windows Server 2012
- Windows Server 2012 R2
- Windows 7 (64 bit)
- Windows 8 (64 bit)
- Windows 10 (64 bit)

Linux operating systems

- CentOS 5.9+, 6.4+, 7 (64 bit)

Note: Assistance from Xerox Professional Services may be required for installation on the following supported Linux platforms:

- Debian 7.1 (Wheezy) (64 bit)
- Red Hat Enterprise Linux 5.9+, 6.4+, 7 (64 bit)
- Ubuntu 12.04 LTS, 13.04 (64 bit), 14.04 LTS (64 bit)

Server

- Minimum of 6 CPU cores
- Minimum of 16 GB RAM
- Minimum of 100 GB of free disk space

Windows installation

2

Installation of Xerox® DocuShare Flex requires the installation and configuration of specific components and editing of the answer.txt installation file.

Basic steps installing DocuShare Flex include:

1. Obtain a DocuShare Flex license.
2. Install a database.
3. Install LDAP.
4. Install the Apache web server.
5. Install the document viewer server software.
6. Edit the answer.txt file.
7. Install DocuShare Flex.

The following steps provide information on component installation and answer.txt file parameter value collection.

1 – Site license

1. Obtain your site license, then copy the site license file to a location on your site server.

Note: The DocuShare Flex license is a secure XML file that is digitally signed. Any unauthorized changes to the file voids the license.

2. Note the location of the site license file, as you will need it later when editing the DocuShare Flex answer.txt installation file.

Parameter	Value
falcon.licenseFilePath	The absolute path to the site license

2 – Database installation

SQL Server database

1. Install and configure the SQL Server database according to instructions provided with the software.
2. When configuring the database, note the following specifics, as you will need them later when editing the DocuShare Flex answer.txt installation file.

Parameter	Value
databaseConfig.database	sqlserver
mssqlConfig.user	Default is sa
mssqlConfig.password	Password for the database user
mssqlConfig.databaseName	Database name
mssqlConfig.host	Hostname of the machine running the database
mssqlConfig.port	Default is 1433
mssqlConfig.instanceType	Type of database instance; either 'named' or 'default'. If you did not install a 'named' instance when installing the database, you installed a 'default' instance
mssqlConfig.instanceName	The database instance to use. This value will be used only if the value of instanceType 'named'. Comment this if your database is using the default instance
mssqlConfig.database.create	Should the database create the database within the defined instance: true or false

PostgreSQL database

1. Install and configure the PostgreSQL database according to instructions provided with the software.
2. When configuring the database, note the following specifics, as you will need them later when editing the DocuShare Flex answer.txt installation file.

Parameter	Value
databaseConfig.database	postgresql
postgresConfig.user	The database username of the postgres user. The default is postgres
postgresConfig.password	Password for the database user
postgresConfig.port	The default is 5432
postgresConfig.host	Host name or IP address of the database
postgresConfig.database.name	Database name
postgresConfig.database.create	Should the database create the database within the defined instance: true or false

3 – LDAP installation

1. Install and configure the LDAP server according to instructions provided with the software.
2. When configuring the server, note the following specifics, as you will need them later when editing the DocuShare Flex answer.txt installation file.

Parameter	Value
LDAP	
ldapConfig.server.type	apache_directory or active_directory
ldapConfig.server.ssl.enable	true to enable, false to disable
ldapConfig.host	The fully qualified name or IP address of the LDAP host
ldapConfig.port	The port used by the LDAP server
ldapConfig.rootDIT	The root DIT of the LDAP server
ldapConfig.agentDN	The DN of the LDAP service account. This is the service user account that does not need write permission, since the Agent only reads from the directory
ldapConfig.agent.password	The agent password
ldapConfig.site.adminDN	The DN of the site administrator account that you created on the LDAP server. This DN should be present in the Root DIT
ldapConfig.coordinatorDN	The DN of the site coordinator
ldapConfig.coordinator.password	The password for the site coordinator
User Property mapping	
ldapPropertyMappingConfig.first.name	Default is givenName
ldapPropertyMappingConfig.last.name	Default is sn
ldapPropertyMappingConfig.user.name	Default is uid if using Apache Directory Server or samaccountname if using Active Directory Server

Parameter	Value
ldapPropertyMappingConfig.email	Default is mail
Group Property mapping	
ldapPropertyMappingConfig.title	Default is cn
ldapPropertyMappingConfig.summary	Description
ldapPropertyMappingConfig.description	Description

4 – Tomcat server configuration

Note the following specifics regarding your Tomcat server, as you will need them later when editing the DocuShare Flex answer.txt installation file.

Parameter	Value
tomcatConfig.host	The fully qualified name of the hosting server or localhost
tomcatConfig.port	The Tomcat port number
tomcatConfig.falcon.contextRoot	The root of the site URL. The default is xcm. If only a / is preferred as the context root, then leave this parameter value blank.
tomcatConfig.scanServices.contextRoot	The default is ScanServices
tomcatConfig.scheme	This is the http protocol type
tomcatConfig.contentStore	The absolute path for the site content store directory
tomcatConfig.defaultLocale	Default is en
tomcatConfig.default.timezone	<p>The time zone for the site. Enter a value-pair associated with your time zone. For example; for Alaska, enter the parameter value America/Anchorage. No value entered defaults to the time zone of the server on which DocuShare Flex is running</p> <ul style="list-style-type: none"> – Samoa Time = Pacific/Samoa – Hawaii Time = Pacific/Honolulu – Gambier Time = Pacific/Gambier – Hawaii-Aleutian Time = America/Adak – Pitcairn Time = Pacific/Pitcairn – Alaska Time = America/Anchorage – Mountain Time (Arizona) = America/Phoenix – Pacific Time (Mexico) = America/Tijuana – Pacific Time (US and Canada) = America/Los_Angeles – Galapagos Time = Pacific/Galapagos – Central Time (Central America) = America/Costa_Rica – Mountain Time (Mexico) = America/Chihuahua

Parameter	Value
tomcatConfig.default.timezone	<ul style="list-style-type: none"> – Mountain Time (US and Canada) = America/Denver – Eastern Time (Central America) = America/Panama – Eastern Time (Caribbean) = America/Jamaica – Pacific Time (South America) = America/Lima – Central Time (US and Canada) = America/Chicago – Central Time (Mexico) = America/Mexico_City – Amazon Time = America/Manaus – Atlantic Time (Central America) = America/Puerto_Rico – Eastern Caribbean Time = America/Barbados – Eastern Time (US and Canada) = America/New_York – Eastern Time (South America) = America/Sao_Paulo – Atlantic Time (Bermuda) = Atlantic/Bermuda – Greenland Time = America/Thule – Western Greenland Time = America/Godthab – South Georgia Time = Atlantic/South_Georgia – Cape Verde Time = Atlantic/Cape_Verde – Azores Time = Atlantic/Azores – Coordinated Universal Time = UTC – Greenwich Mean Time (Dakar) = Africa/Dakar – Greenwich Mean Time (Europe) = Europe/London – Paris Time (Europe) = Europe/Paris – Greenwich Mean Time (Casablanca) = Africa/Casablanca – Western African Time = Africa/Lagos – Central European Time (Warsaw) = Europe/Warsaw – Central European Time (Amsterdam) = Europe/Amsterdam – Central Africa Time = Africa/Cairo – Eastern Africa Time = Africa/Nairobi – Arabia Time = Asia/Kuwait – Eastern European Time (Greece, Turkey, Bulgaria) = Europe/Istanbul – Israel Time = Asia/Tel_Aviv – Eastern European Time (Finland, Lithuania, Estonia) = Europe/Helsinki – Mauritius Time = Indian/Mauritius – Moscow Time = Europe/Moscow

Parameter	Value
tomcatConfig.default.timezone	<ul style="list-style-type: none"> – Gulf Time = Asia/Dubai – Azerbaijan Time = Asia/Baku – Maldives Time = Indian/Maldives – Yekaterinburg Time = Asia/Yekaterinburg – Indian Ocean Territory Time = Indian/Chagos – West Indonesia Time = Asia/Jakarta – Indochina Time = Asia/Bangkok – China Time = Asia/Shanghai – Singapore Time = Asia/Singapore – Western Time (Australia) = Australia/Perth – Korea Time = Asia/Seoul – Japan Time = Asia/Tokyo – Eastern Time (New South Wales) = Australia/Canberra – Yakutsk Time = Asia/Yakutsk – Chuuk Time = Pacific/Chuuk – Vladivostok Time = Asia/Vladivostok – Solomon Islands Time = Pacific/Guadalcanal – Fiji Time = Pacific/Fiji – New Zealand Time = Pacific/Auckland – West Samoa Time = Pacific/Apia – Line Islands Time = Pacific/Kiritimati

5 – Apache web server installation

1. Download the Apache web server software **httpd-<2.4.25>-win64-VC11.zip** from **<http://www.apachelounge.com/download/VC11/>**.
This particular download includes the critical mod_jk module.
2. Install **vcredist_x64/86.exe**.
3. Uncompress the **Apache24** folder that is within the package zip file, to the root directory on your server.
This distribution comes pre-configured for localhost.
4. Enter the command **httpd -k install** to install Apache as a **service**.
5. Enter **httpd -k start** to start Apache.
Test the installation by using a web browser and going to <http://localhost>.
6. Note the following specifics regarding your Apache web server, as you will need them later when editing the DocuShare Flex answer.txt installation file.

Parameter	Value
ldapConfig.webServer.type	The only supported value is apache
ldapConfig.webServer.host	The web server host name
ldapConfig.webServer.home	The absolute path to the web server home directory, such as /etc/httpd/
ldapConfig.webServer.port	80, or 443 if SSL is enabled
ldapConfig.webServer.ssl.enable	Is SSL enabled: true or false. True is not supported if ldapConfig.webServer.autoConfig.enable is set to true
ldapConfig.webServer.apache.version	The Apache web server version, such as 2.4
ldapConfig.webServer.autoConfig.enable	Is autoConfig enabled: true or false. Caution: a value of true will modify the Apache server config

6 – Document viewer server software installation

DocuShare Flex uses the Accusoft PrizmDoc Server for the document viewer service.

Note: Make sure the server that hosts the document viewer service needs or exceeds the minimum system requirements.

Document viewer server

The PrizmDoc Server must be install prior to installing DocuShare Flex.

1. Follow the instructions provided with the PrizmDoc Server software, an install it on a server other than the one you will use to run DocuShare Flex.
2. After the PrizmDoc Server software is installed, license the viewer by running the following command:

`<installDir>\plu\plu.exe`, then select **I have purchased a license**, select **OEM** and enter the required information.
3. After licensing the PrizmDoc Server software, start the Prizm service.
4. Verify the installation by going to **`http://localhost:18681/admin`**.

Document viewer server

When configuring the document viewer server, note the following specifics, as you will need them later when editing the DocuShare Flex answer.txt installation file.

Parameter	Value
prizm.service.user	PrizmDoc service user name. Required if running on a Windows server; ignore if running on CentOS
prizm.service.password	Password for the PrizmDoc service user. Required if running on a Windows server; ignore if running on CentOS
prizm.install.folder	The absolute path to the PrizmDoc install folder. Required if running on a Windows server; ignore if running on CentOS
prizm.scheme	http
prizm.server.host	Path to the server hosting the PrizmDoc Server software

Parameter	Value
prizm.server.port	The port used by the PrizmDoc Server
prizm.client.secretKey	The default is mysecretkey

Change the document viewer server configuration settings

1. Stop the Prizm service.
2. Open and edit `<installDir>\prizm-services-config.yml`.

Note: The viewer server requires a range of 200 ports which are reserved for internal use. The port setting in the configuration file defines the starting port of that range. So, a port value of 19000 indicates that ports 19000 through 19199 are reserved for use by the viewer.
3. To change the port range starting port, edit the value of the parameter **network.internalStartingPort: 19000**.
4. To change the public port, edit the value of the parameter **network.publicPort: 18681**. (The default public port is 18681.)
5. **Save** and **close** the file.
6. Start the Prizm service.

Uninstall the document viewer server software

If the document viewer server software needs to be uninstalled:

1. Stop the Prizm service.
2. Open a command prompt window by selecting **Run as Administrator**.
3. Run the following command: **PrizmDocServer.exe -s -u -l output.log**.

Install multi-server mode

By default, the PrizmDoc HTTP service runs in single-server mode. To enable multi-server mode:

1. Go to the server Windows Services page and **stop** the Prizm service.
2. Open the `<installDir>\prizm-services-config.yml` file.
3. Set the value for the parameter **network.clustering.enabled** to **true**, and uncomment the line.
4. Make sure the **network.publicPort** and **network.clustering.clusterPort** parameters are assigned valid port numbers:


```
network.publicPort: 18681
network.clustering.clusterPort: 18682 <uncomment this line>
```

5. Set the **network.clustering.servers** value to an array of address values that correspond to each PrizmDoc Server on the network node, and uncomment this parameter.
For example: `network.clustering.servers: [192.168.0.1, 192.168.0.2, 192.168.0.3]`.
6. **Save** and **close** the file.
7. Go to the server Windows Services page and **start** the **Prizm** service.

Firewall port requirements

If an application makes requests to the PrizmDoc service from another server, you need to open ports 18681 and 18682, or other port values you have chosen, in the firewall for each server hosting the PrizmDoc service.

The following default ports must be open to access the PrizmDoc Server:

Single-server mode

18681 - PrizmDoc Server Entry Point (SEP) default port.

Multi-server mode

18681 - PrizmDoc Server Entry Point (SEP) default port.

18682 - PrizmDoc Server Cloud Entry Point (CEP) default port.

7 – DocuShare Flex installation

These instructions are for a **clean** DocuShare Flex software installation; not for a software upgrade or software re-installation of an existing DocuShare Flex site.

Before you begin installing DocuShare Flex software, make sure you have:

- Obtained a DocuShare Flex license.
- Installed the database.
- Installed LDAP.
- Installed the Apache web server.
- Installed the document viewer server software.

Install DocuShare Flex

1. Download the DocuShare Flex software file, and uncompress it the installation folder on your site server.

Note: Do not uncompress the file onto the server desktop.
2. Create another folder titled **documents**. This can be within the installation folder or within another volume of your choice.
3. In the uncompressed DocuShare Flex software file, locate and open the **answer.txt** file.
4. Using the parameter values you noted in the previous sections of this chapter, edit the answer.txt file, then save and close the file.
5. In a command window, go to the DocuShare Flex install directory.
6. Run **silent_install.bat answer.txt**.

The silent installer runs the answer.txt file and installs the DocuShare Flex software and configures the site according to the information supplied in that file.
7. Access the new site at **http://<hostname>/xcm/spyglass/falcon2/ManageTasks**.

Patches and language pack installation

Software patches and language pack installation run in silent mode; either with or without user intervention. If patches or language packs are integrated within the DocuShare Flex site software package, those patches and packs are automatically installed along with the initial software installation.

Note: In some cases, login credentials may be required for patch or language pack installation.

With user intervention

This method allows you to make selections of what to install.

1. Download and uncompress the patch or language pack.
2. In a command window, run **fc_patch.bat -s <docushare_home_dir>**.
For example: `fc_patch.bat -s d:\xerox\docushare`
3. From the displayed list of available patches and language packs, select the corresponding number for the patch that you want installed.
4. Press **Enter** to scroll through the list and make your selections,
5. When you have finished, enter **0** and press **Enter** to start the installation.
6. When installation has completed, navigate to the site bin directory and run **dselfindex index_all**.

Without user intervention

This method installs all patches and language packs that are in the uncompressed file.

1. Download and uncompress the patch or language pack.
2. In a command window, run **fc_patch.bat -s -y <docushare_home_dir>**.
For example: `fc_patch.bat -s -y d:\xerox\docushare`.
3. When installation has completed, navigate to the site bin directory and run **dselfindex index_all**.

CentOS installation

3

Installation of Xerox® DocuShare Flex requires the installation and configuration of specific components and editing of the answer.txt installation file.

Basic steps installing DocuShare Flex include:

1. Obtain a DocuShare Flex license.
2. Install a database.
3. Install LDAP.
4. Install the Apache web server.
5. Install the document viewer server software.
6. Edit the answer.txt file.
7. Install DocuShare Flex.

The following steps provide information on component installation and answer.txt file parameter value collection.

1 – Site license

1. Obtain your site license, then copy the site license file to a location on your site server.

Note: The DocuShare Flex license is a secure XML file that is digitally signed. Any unauthorized changes to the file voids the license.

2. Note the location of the site license file, as you will need it later when editing the DocuShare Flex answer.txt installation file.

Parameter	Value
falcon.licenseFilePath	The absolute path to the site license

2 – Database installation

SQL Server database

1. Install and configure the SQL Server database according to instructions provided with the software.
2. When configuring the database, note the following specifics, as you will need them later when editing the DocuShare Flex answer.txt installation file.

Parameter	Value
databaseConfig.database	sqlserver
mssqlConfig.user	Default is sa
mssqlConfig.password	Password for the database user
mssqlConfig.databaseName	Database name
mssqlConfig.host	Hostname of the machine running the database
mssqlConfig.port	Default is 1433
mssqlConfig.instanceType	Type of database instance; either 'named' or 'default'. If you did not install a 'named' instance when installing the database, you installed a 'default' instance
mssqlConfig.instanceName	The database instance to use. This value will be used only if the value of instanceType 'named'. Comment this if your database is using the default instance
mssqlConfig.database.create	Should the database create the database within the defined instance: true or false

PostgreSQL database

1. Install and configure the PostgreSQL database according to instructions provided with the software.
2. When configuring the database, note the following specifics, as you will need them later when editing the DocuShare Flex answer.txt installation file.

Parameter	Value
databaseConfig.database	postgresql
postgresConfig.user	The database username of the postgres user. The default is postgres
postgresConfig.password	Password for the database user
postgresConfig.port	The default is 5432
postgresConfig.host	Host name or IP address of the database
postgresConfig.database.name	Database name
postgresConfig.database.create	Should the database create the database within the defined instance: true or false

3 – LDAP installation

1. Install and configure the LDAP server according to instructions provided with the software.
2. When configuring the server, note the following specifics, as you will need them later when editing the DocuShare Flex answer.txt installation file.

Parameter	Value
LDAP	
ldapConfig.server.type	apache_directory or active_directory
ldapConfig.server.ssl.enable	true to enable, false to disable
ldapConfig.host	The fully qualified name or IP address of the LDAP host
ldapConfig.port	The port used by the LDAP server
ldapConfig.rootDIT	The root DIT of the LDAP server
ldapConfig.agentDN	The DN of the LDAP service account. This is the service user account that does not need write permission, since the Agent only reads from the directory
ldapConfig.agent.password	The agent password
ldapConfig.site.adminDN	The DN of the site administrator account that you created on the LDAP server. This DN should be present in the Root DIT
ldapConfig.coordinatorDN	The DN of the site coordinator
ldapConfig.coordinator.password	The password for the site coordinator
User Property mapping	
ldapPropertyMappingConfig.first.name	Default is givenName
ldapPropertyMappingConfig.last.name	Default is sn
ldapPropertyMappingConfig.user.name	Default is uid if using Apache Directory Server or samaccountname if using Active Directory Server

Parameter	Value
ldapPropertyMappingConfig.email	Default is mail
Group Property mapping	
ldapPropertyMappingConfig.title	Default is cn
ldapPropertyMappingConfig.summary	description
ldapPropertyMappingConfig.description	description

4 – Tomcat server configuration

Note the following specifics regarding your Tomcat server, as you will need them later when editing the DocuShare Flex answer.txt installation file.

Parameter	Value
tomcatConfig.host	The fully qualified name of the hosting server
tomcatConfig.port	The Tomcat port number
tomcatConfig.falcon.contextRoot	The root of the site URL. The default is xcm. If only a / is preferred as the context root, then leave this parameter value blank.
tomcatConfig.scanServices.contextRoot	The default is ScanServices
tomcatConfig.scheme	This is the http protocol type
tomcatConfig.contentStore	The absolute path for the site content store directory
tomcatConfig.defaultLocale	Default is en
tomcatConfig.default.timezone	<p>The time zone for the site. Enter a value-pair associated with your time zone. For example; for Alaska, enter the parameter value America/Anchorage. No value entered defaults to the time zone of the server on which DocuShare Flex is running</p> <ul style="list-style-type: none"> – Samoa Time = Pacific/Samoa – Hawaii Time = Pacific/Honolulu – Gambier Time = Pacific/Gambier – Hawaii-Aleutian Time = America/Adak – Pitcairn Time = Pacific/Pitcairn – Alaska Time = America/Anchorage – Mountain Time (Arizona) = America/Phoenix – Pacific Time (Mexico) = America/Tijuana – Pacific Time (US and Canada) = America/Los_Angeles – Galapagos Time = Pacific/Galapagos – Central Time (Central America) = America/Costa_Rica – Mountain Time (Mexico) = America/Chihuahua

Parameter	Value
tomcatConfig.default.timezone	<ul style="list-style-type: none"> – Mountain Time (US and Canada) = America/Denver – Eastern Time (Central America) = America/Panama – Eastern Time (Caribbean) = America/Jamaica – Pacific Time (South America) = America/Lima – Central Time (US and Canada) = America/Chicago – Central Time (Mexico) = America/Mexico_City – Amazon Time = America/Manaus – Atlantic Time (Central America) = America/Puerto_Rico – Eastern Caribbean Time = America/Barbados – Eastern Time (US and Canada) = America/New_York – Eastern Time (South America) = America/Sao_Paulo – Atlantic Time (Bermuda) = Atlantic/Bermuda – Greenland Time = America/Thule – Western Greenland Time = America/Godthab – South Georgia Time = Atlantic/South_Georgia – Cape Verde Time = Atlantic/Cape_Verde – Azores Time = Atlantic/Azores – Coordinated Universal Time = UTC – Greenwich Mean Time (Dakar) = Africa/Dakar – Greenwich Mean Time (Europe) = Europe/London – Paris Time (Europe) = Europe/Paris – Greenwich Mean Time (Casablanca) = Africa/Casablanca – Western African Time = Africa/Lagos – Central European Time (Warsaw) = Europe/Warsaw – Central European Time (Amsterdam) = Europe/Amsterdam – Central Africa Time = Africa/Cairo – Eastern Africa Time = Africa/Nairobi – Arabia Time = Asia/Kuwait – Eastern European Time (Greece, Turkey, Bulgaria) = Europe/Istanbul – Israel Time = Asia/Tel_Aviv – Eastern European Time (Finland, Lithuania, Estonia) = Europe/Helsinki – Mauritius Time = Indian/Mauritius – Moscow Time = Europe/Moscow

Parameter	Value
tomcatConfig.default.timezone	<ul style="list-style-type: none"> – Gulf Time = Asia/Dubai – Azerbaijan Time = Asia/Baku – Maldives Time = Indian/Maldives – Yekaterinburg Time = Asia/Yekaterinburg – Indian Ocean Territory Time = Indian/Chagos – West Indonesia Time = Asia/Jakarta – Indochina Time = Asia/Bangkok – China Time = Asia/Shanghai – Singapore Time = Asia/Singapore – Western Time (Australia) = Australia/Perth – Korea Time = Asia/Seoul – Japan Time = Asia/Tokyo – Eastern Time (New South Wales) = Australia/Canberra – Yakutsk Time = Asia/Yakutsk – Chuuk Time = Pacific/Chuuk – Vladivostok Time = Asia/Vladivostok – Solomon Islands Time = Pacific/Guadalcanal – Fiji Time = Pacific/Fiji – New Zealand Time = Pacific/Auckland – West Samoa Time = Pacific/Apia – Line Islands Time = Pacific/Kiritimati

5 – Apache web server installation

1. Enter the command **yum install httpd.x86_64**.
2. Enter the command **yum install mod_ssl.x86_64**.
3. Enter the command **yum install mod_ldap.x86_64**.
4. Enter the command **systemctl start httpd** to start Apache.
Test the installation by using a web browser and going to <http://localhost>.
5. Note the following specifics regarding your Apache web server, as you will need them later when editing the DocuShare Flex answer.txt installation file.

Parameter	Value
ldapConfig.webServer.type	The only supported value is apache
ldapConfig.webServer.host	The web server host name
ldapConfig.webServer.home	The absolute path to the web server home directory, such as /etc/httpd/
ldapConfig.webServer.port	80, or 443 if SSL is enabled
ldapConfig.webServer.ssl.enable	Is SSL enabled: true or false. True is not supported if ldapConfig.webServer.autoConfig.enable is set to true
ldapConfig.webServer.apache.version	The Apache web server version, such as 2.4
ldapConfig.webServer.autoConfig.enable	Is autoConfig enabled: true or false. Caution: a value of true will modify the Apache server config

6 – Document viewer server software installation

DocuShare Flex uses the Accusoft PrizmDoc Server for the document viewer service.

Note: Make sure the server that hosts the document viewer service needs or exceeds the minimum system requirements.

Document viewer server

The PrizmDoc Server must be install prior to installing DocuShare Flex.

1. Follow the instructions provided with the PrizmDoc Server software, an install it on a server other than the one you will use to run DocuShare Flex.
2. After the PrizmDoc Server software is installed, license the viewer by running the following command:

`<installDir>\plu\plu.exe`, then select **I have purchased a license**, select **OEM** and enter the required information.
3. After licensing the PrizmDoc Server software, start the Prizm service.
4. Verify the installation by going to **<http://localhost:18681/admin>**.

Document viewer server

When configuring the PrizmDoc Client, note the following specifics, as you will need them later when editing the DocuShare Flex answer.txt installation file.

Parameter	Value
prizm.service.user	PrizmDoc service user name. Required if running on a Windows server; ignore if running on CentOS
prizm.service.password	Password for the PrizmDoc service user. Required if running on a Windows server; ignore if running on CentOS
prizm.install.folder	The absolute path to the PrizmDoc install folder. Required if running on a Windows server; ignore if running on CentOS
prizm.scheme	http
prizm.server.host	Path to the server hosting the PrizmDoc Server software

Parameter	Value
prizm.server.port	The port used by the PrizmDoc Server
prizm.client.secretKey	The default is mysecretkey

Change the document viewer server configuration settings

1. Stop the Prizm service.
2. Open and edit `/usr/share/prizm/prizm-services-config.yml`.

Note: The viewer server requires a range of 200 ports which are reserved for internal use. The port setting in the configuration file defines the starting port of that range. So, a port value of 19000 indicates that ports 19000 through 19199 are reserved for use by the viewer.

3. **Save** and **close** the file.
4. Start the Prizm service.

Uninstall the document viewer server software

If the document viewer server software needs to be uninstalled:

1. Stop the Prizm service.
2. In a command prompt, run the commands:

`/usr/share/prizm/scripts/pccis.sh stop`

remove the installed files:

Install multi-server mode

By default, the PrizmDoc HTTP service runs in single-server mode. To enable multi-server mode:

1. **Stop** the Prizm service.
2. Open the `<installDir>\prizm-services-config.yml` file.
3. Set the value for the parameter **network.clustering.enabled** to **true**, and uncomment the line.
4. Make sure the **network.publicPort** and **network.clustering.clusterPort** parameters are assigned valid port numbers:
`network.publicPort: 18681`
`network.clustering.clusterPort: 18682 <uncomment this line>`
5. Set the **network.clustering.servers** value to an array of address values that correspond to each PrizmDoc Server on the network node, and uncomment this parameter.
For example: `network.clustering.servers: [192.168.0.1, 192.168.0.2, 192.168.0.3]`.
6. **Save** and **close** the file.

7. **Start** the **Prizm** service.

Firewall port requirements

If an application makes requests to the PrizDoc service from another server, you need to open ports 18681 and 18682, or other port values you have chosen, in the firewall for each server hosting the PrizDoc service.

The following default ports must be open to access the PrizDoc Server:

Single-server mode

18681 - PrizDoc Server Entry Point (SEP) default port.

Multi-server mode

18681 - PrizDoc Server Entry Point (SEP) default port.

18682 - PrizDoc Server Cloud Entry Point (CEP) default port.

Firewall enabled

If a firewall is enabled, make sure LDAP, database and HTTP traffic are allowed.

SELinux enabled

If SELinux is enabled, configure accordingly. Configuring SELinux is beyond the scope of this installation guide.

7 – DocuShare Flex installation

These instructions are for a **clean** DocuShare Flex software installation; not for a software upgrade or software re-installation of an existing DocuShare Flex site.

Before you begin installing DocuShare Flex software, make sure you have:

- Obtained a DocuShare Flex license.
- Installed the database.
- Installed LDAP.
- Installed the Apache web server.
- Installed the document viewer server software.

Install DocuShare Flex

1. Download the DocuShare Flex software file, and uncompress it the installation folder on your site server.

Note: Do not uncompress the file onto the server desktop.
2. Create another folder titled **documents**. This can be within the installation folder or within another volume of your choice.
3. In the uncompressed DocuShare Flex software file, locate and open the **answer.txt** file.
4. Using the parameter values you noted in the previous sections of this chapter, edit the answer.txt file, then save and close the file.
5. In a command window, go to the DocuShare Flex install directory.
6. Run **./silent_install.sh answer.txt**.

The silent installer runs the answer.txt file and installs the DocuShare Flex software and configures the site according to the information supplied in that file.
7. Access the new site at **http://<hostname>/xcm/spyglass/falcon2/ManageTasks**.

Patches and language pack installation

Software patches and language pack installation run in silent mode; either with or without user intervention. If patches or language packs are integrated within the DocuShare Flex site software package, those patches and packs are automatically installed along with the initial software installation.

Note: In some cases, login credentials may be required for patch or language pack installation.

With user intervention

This method allows you to make selections of what to install.

1. Download and uncompress the patch or language pack.
2. In a command window, run **fc_patch.sh -s <docushare_home_dir>**.
For example: `fc_patch.sh -s d:/xerox/docushare`.
3. From the displayed list of available patches and language packs, select the corresponding number for the patch that you want installed.
4. Press **Enter** to scroll through the list and make your selections,
5. When you have finished, enter **0** and press **Enter** to start the installation.
6. When installation has completed, navigate to the site bin directory and run **dselfindex index_all**.

Without user intervention

This method installs all patches and language packs that are in the uncompressed file.

1. Download and uncompress the patch or language pack.
2. In a command window, run **fc_patch.sh -s -y <docushare_home_dir>**.
For example: `fc_patch.sh -s -y d:/xerox/docushare`.
3. When installation has completed, navigate to the site bin directory and run **dselfindex index_all**.