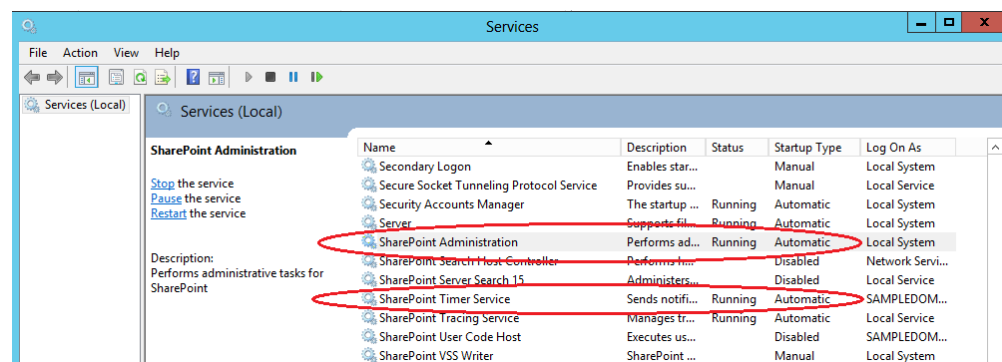


Configure SharePoint 2013 for SharePoint-Hosted Apps

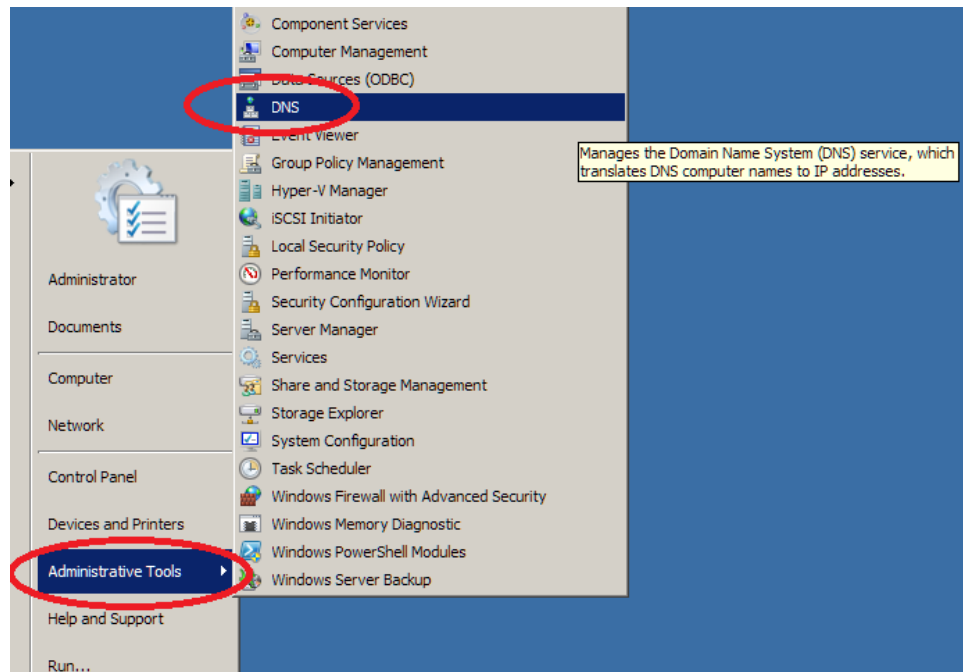
1. Verify the required windows services are started

- On the SharePoint Server,
- Click **Start**, point to **Administrative Tools**, and then click **Services**.
- In the Services list, verify that the **SharePoint Administration** and **SharePoint Timer** services are running as shown below:

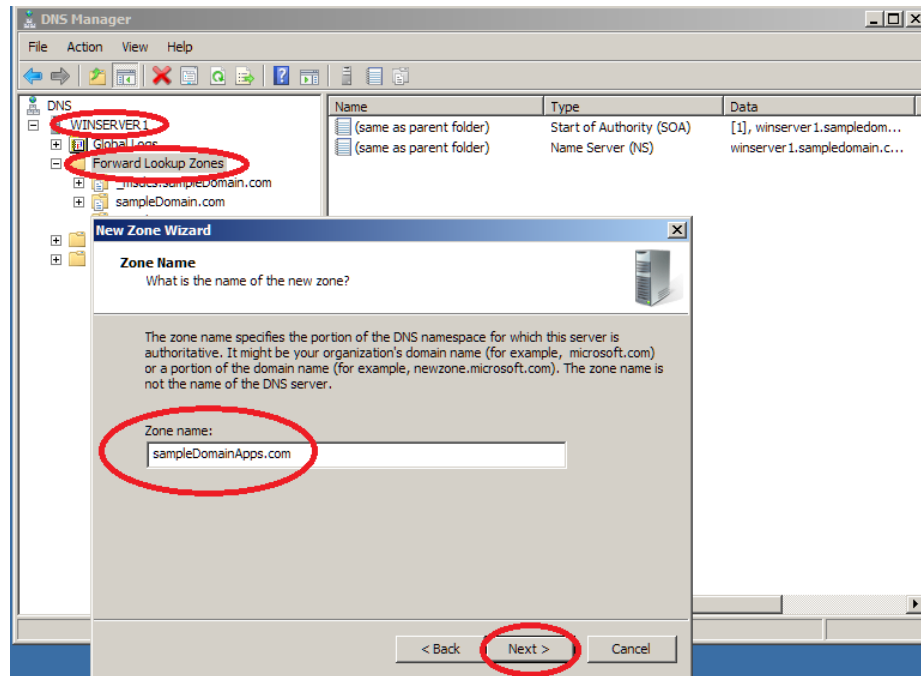


2. Create a new App Domain in DNS Server

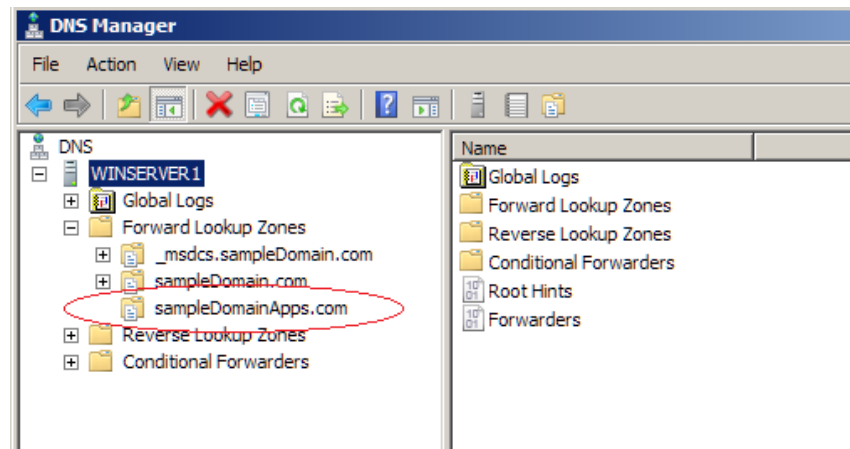
- In the Active Directory Domain Controller Sever, in our class setup scenario 'winServer1', Open **DNS Management** console as shown below:



- e. In the DNS console
 - i. Open the *server name*
 - ii. Open the '**Forward Lookup Zones**' folder.
 - iii. Right-click the '**Forward Lookup Zones**' -> '**New Zone**'
 - iv. In the New Zone wizard, Click Next on the initial choices keeping the default values, till you reach the '**Zone Name**' page.
 - v. Enter the '**Zone Name**' as '**sampleDomainApps.com**' as shown below and click **Next** and **Finish**.



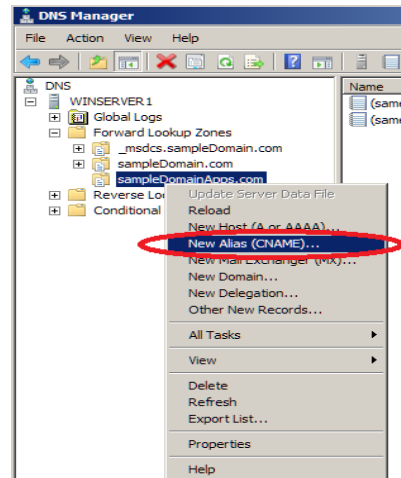
vi. The **new zone** (*app domain in our case*) will be created as shown below:



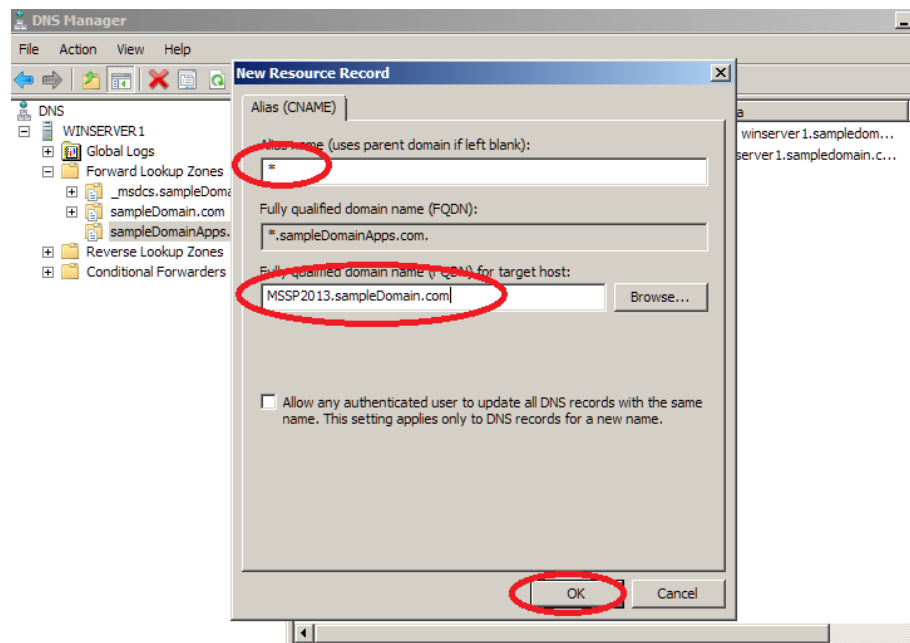
vii. Now you need to create a wildcard Alias (CNAME) record to allow apps to create unique domain names within our app domain, **'sampleDomainApps.com'**.

viii. Right-click '**sampleDomainApps.com**' forward lookup zone and select **Refresh**.

ix. Right-click '**sampleDomainApps.com**' and select **New Alias (CNAME)...**



- x. Fill the details as given below and click **OK** to create the **CNAME** record.



- xi. Now the 'sampleDomainApps.com' zone should have the following contents:

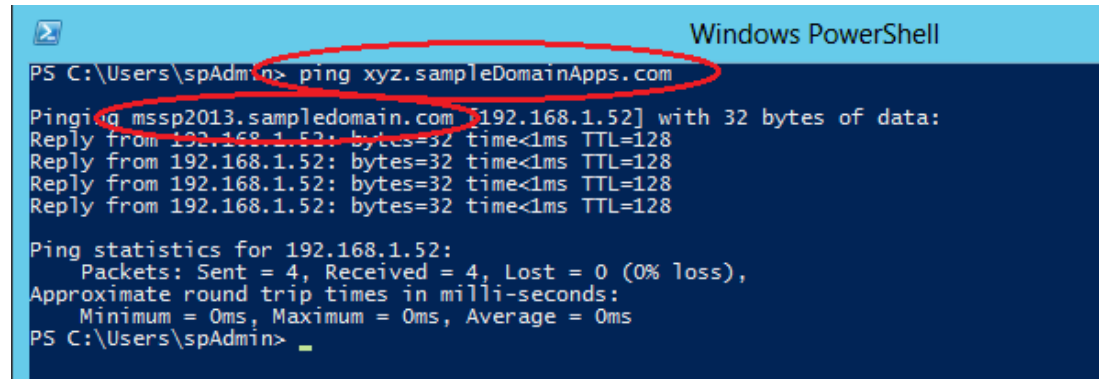
The screenshot shows the DNS Manager console with the 'sampleDomainApps.com' zone selected. The table below represents the contents of this zone as shown in the screenshot.

Name	Type	Data	Timestamp
(same as parent folder)	Start of Authority (SOA)	[1], winserver1.sampledom...	static
(same as parent folder)	Name Server (NS)	winserver1.sampledomain.c...	static
*	Alias (CNAME)	MSSP2013.sampleDomain.com	

- xii. To **Test** the 'App domain' follow the below steps:
1. Open **command prompt** on your system.
 2. Type a ping command as follows:

'ping xyz.sampleDomainApps.com'

3. Press Enter. You should get a success message as shown below.



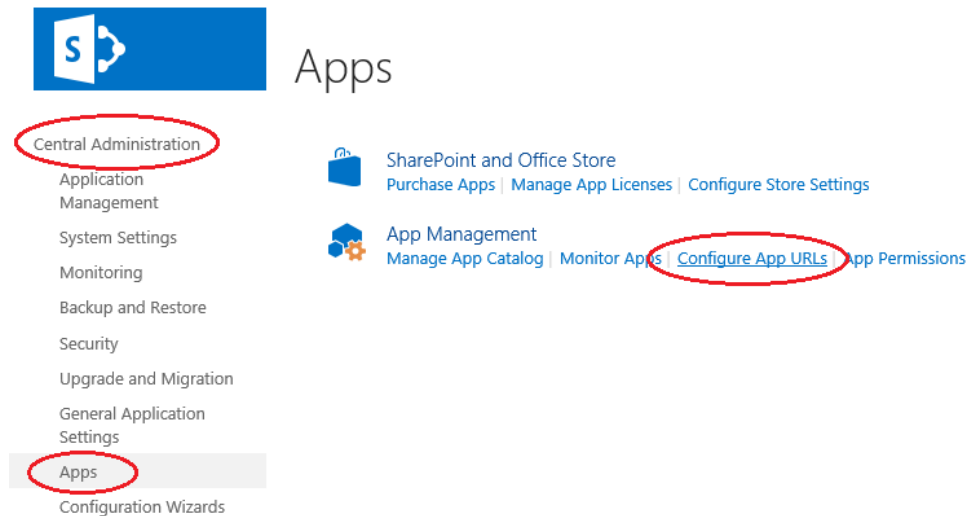
```
Windows PowerShell
PS C:\Users\spAdmin> ping xyz.sampleDomainApps.com
Pinging mssp2013.sampledomain.com [192.168.1.52] with 32 bytes of data:
Reply from 192.168.1.52: bytes=32 time<1ms TTL=128
Reply from 192.168.1.52: bytes=32 time<1ms TTL=128
Reply from 192.168.1.52: bytes=32 time<1ms TTL=128
Reply from 192.168.1.52: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.52:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
PS C:\Users\spAdmin>
```

Note: In the above ping statement 'xyz' can be any name matching app domain we created. You should also note that the replying server to the ping is 'MSSP2013' (the SharePoint server in our scenario).

3. Register the newly created App Domain with SharePoint

- a. Open **'Central Administration'** in SharePoint as the farm administrator
- b. Open the **'Configure App URLs'** as shown below:

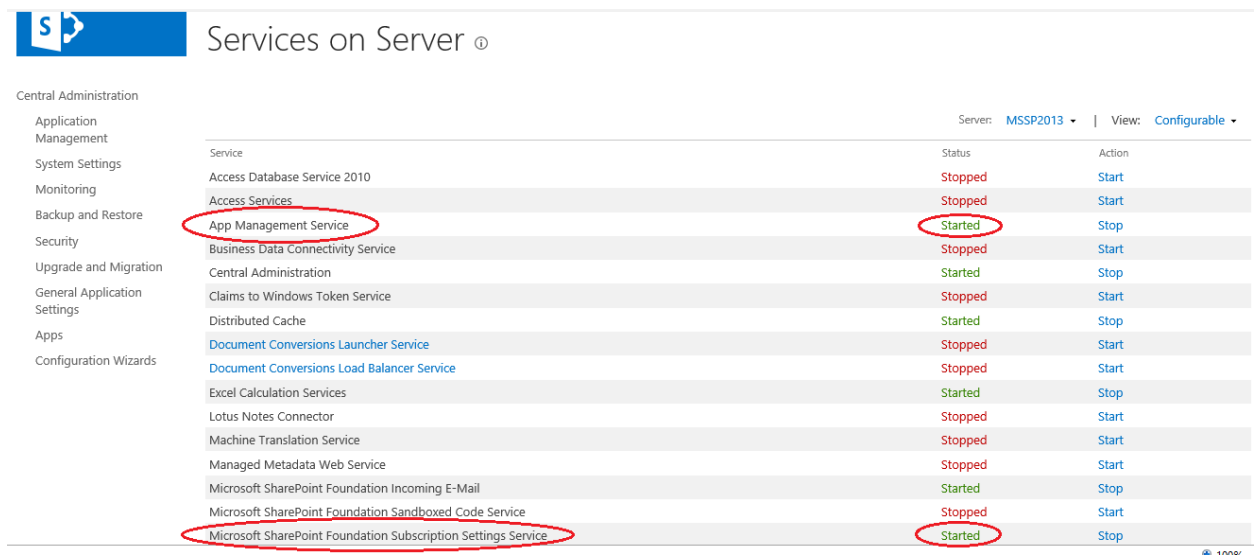


- c. You will get a warning message as below to configure the service application.

Configure App URLs ⓘ

The Subscription Settings service and corresponding application and proxy needs to be running in order to make changes to these settings.

- d. Follow the below steps to configure '**App Management**' and '**Microsoft SharePoint Foundation Subscription Settings**' service applications.
 - i. In **Central Administration**, click **System Settings**.
 - ii. On the System Settings page, under Servers, click '**Manage services on server**'.
 - iii. On the Services on Server page, next to '**App Management Service**', click **Start**.
 - iv. On the Services on Server page, next to '**Microsoft SharePoint Foundation Subscription Settings Service**', click **Start**.



Service	Status	Action
Access Database Service 2010	Stopped	Start
Access Services	Stopped	Start
App Management Service	Started	Stop
Business Data Connectivity Service	Stopped	Start
Central Administration	Started	Stop
Claims to Windows Token Service	Stopped	Start
Distributed Cache	Started	Stop
Document Conversions Launcher Service	Stopped	Start
Document Conversions Load Balancer Service	Stopped	Start
Excel Calculation Services	Started	Stop
Lotus Notes Connector	Stopped	Start
Machine Translation Service	Stopped	Start
Managed Metadata Web Service	Stopped	Start
Microsoft SharePoint Foundation Incoming E-Mail	Started	Stop
Microsoft SharePoint Foundation Sandboxed Code Service	Stopped	Start
Microsoft SharePoint Foundation Subscription Settings Service	Started	Stop

- v. Open **PowerShell** on the SharePoint Server with '**Run as Administrator**' option.
- vi. Execute the following script step by step in the **PowerShell** window.
(The **remove-Sp** step is optional the first time, use it in case you rerun this script).

```
add-psnapin "Microsoft.Sharepoint.Powershell"

$account = Get-SPManagedAccount sampleDomain\spAdmin

Remove-SPServiceApplicationPool -Identity SettingsServiceAppPool

$appPoolSubSvc = New-SPServiceApplicationPool -Name SettingsServiceAppPool -Account $account

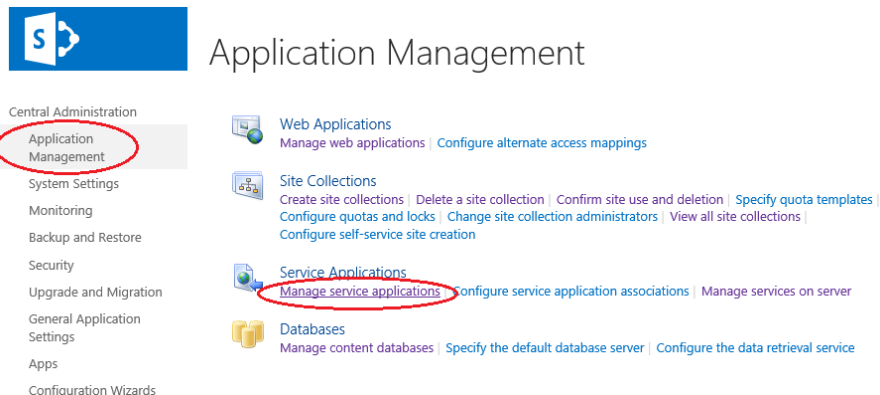
$appSubSvc = New-SPSubscriptionSettingsServiceApplication -ApplicationPool $appPoolSubSvc -Name SettingsServiceApp -DatabaseName SettingsServiceDB

$proxySubSvc = New-SPSubscriptionSettingsServiceApplicationProxy -ServiceApplication $appSubSvc
```

vii. Once this script is successfully executed, you have created a **new service Application**, and its **proxy** which will run under its own **Service App Pool**.

xiii. **To verify the result,**

1. Open 'Central Administration' -> 'Manage Service Applications' as shown below:



2. Verify the service application and proxy is listed and **started**.

Central Administration	Name	Type	Status
Application Management	Application Discovery and Load Balancer Service Application	Application Discovery and Load Balancer Service Application	Started
System Settings	Application Discovery and Load Balancer Service Application Proxy_8d39285e-0b3b-40ad-a1df-ad9cf7c8e652	Application Discovery and Load Balancer Service Application Proxy	Started
Monitoring	Excel Service Application	Excel Services Application Web Service Application	Started
Backup and Restore	Excel Service Application	Excel Services Application Web Service Application Proxy	Started
Security	Security Token Service Application	Security Token Service Application	Started
Upgrade and Migration	SettingsServiceApp	Microsoft SharePoint Foundation Subscription Settings Service Application	Started
General Application Settings	Microsoft SharePoint Foundation Subscription Settings Service Application Proxy	Microsoft SharePoint Foundation Subscription Settings Service Application Proxy	Started
Apps			
Configuration Wizards			

e. **To Create the App Management Service Application:**

- i. In 'Central Administration', on the 'Application Management' page, click '**Manage Service Applications**'.
- ii. On the **ribbon**, click **New**, and then click '**App Management Service**'.
- iii. Create the **Service** with the following details:

New App Management Service Application

Name

Enter the name of the app management service application. The name entered here will be used in the list of Service Applications displayed in the Manage Service Applications page.

Service Application Name

AppManagementService

Database

Use of the default database server and database name is recommended for most cases. Refer to the administrator's guide for advanced scenarios where specifying database information is required.

Use of Windows authentication is strongly recommended. To use SQL authentication, specify the credentials which will be used to connect to the database.

Database Server

MSSP2013

Database Name

App_Management_4934d05b-3c2a-4d83-bed7

Database authentication

☒ Windows authentication (recommended)

☐ SQL authentication

Account

Password

Failover Server

You can choose to associate a database with a specific failover server that is used in conjunction with SQL Server database mirroring.

Failover Database Server

Application Pool

Choose the Application Pool to use for this Service Application. This defines the account and credentials that will be used by this web service.

You can choose an existing application pool or create a new one.

☐ Use existing application pool

Excel Application Pool

☒ Create new application pool

Application pool name

AppManagementServicePool

Select a security account for this application pool

☐ Predefined

Network Service

☒ Configurable

SAMPLEDOMAIN\spadmin

[Register new managed account](#)

Create App Management Service Application Proxy
Specify if you want to create App Management Service Application Proxy and add the proxy to the default proxy group on this farm.

☒ Create App Management Service Application Proxy and add it to the default proxy group

OK

Cancel

iv. Click **OK** to create.

- v. The App Management Service and the Proxy will be listed under **'Manage Service Applications'** page with status **'Started'**.

Name	Type	Status
Application Discovery and Load Balancer Service Application	Application Discovery and Load Balancer Service Application	Started
Application Discovery and Load Balancer Service Application Proxy_8d39285e-0b3b-40ad-a1df-ad9cf7c8e652	Application Discovery and Load Balancer Service Application Proxy	Started
AppManagementService	App Management Service Application	Started
AppManagementService	App Management Service Application Proxy	Started
Excel Service Application	Excel Services Application Web Service Application	Started
Excel Service Application	Excel Services Application Web Service Application Proxy	Started
Security Token Service Application	Security Token Service Application	Started
SettingsServiceApp	Microsoft SharePoint Foundation Subscription Settings Service Application	Started
Microsoft SharePoint Foundation Subscription Settings Service Application Proxy	Microsoft SharePoint Foundation Subscription Settings Service Application Proxy	Started

- f. In **'Central Administration'**, click **'System Settings'**, click **'Manage Services on Server'**

- g. On the Services on Server page, next to **'AppManagementService'**, click **Start**.

- h. Now we can go back to the **'Configure App URLs'** page which you were working on before in step **'a'** of this section.

- i. Enter the following values and Press **OK**

Configure App URLs ⓘ

App URLs will be based on the following pattern: <app prefix> - <app id>.<app domain>

App domain

The app domain is the parent domain under which all apps will be hosted. You must already own this domain and have it configured in your DNS servers. It is recommended to use a unique domain for apps.

App domain:

sampleDomainApps.com

App prefix

The app prefix will be prepended to the subdomain of the app URLs. Only letters and digits, no-hyphens or periods allowed.

App prefix:

Apps

OK

Cancel

- j. Once the App URL is configured, Close all open windows and **restart** the SharePoint Server.
