Configuration Manager Current Branch
1610 – Cloud Management Gateway

Configuration Manager 1610 introduced a new feature to manage clients on the internet - the **Cloud Management Gateway**. The Cloud Management Gateway service is deployed to Microsoft Azure (an Azure subscription is required), and connects to your Configuration Manager site via the Cloud Management Gateway connection point – a new site system role also introduced in 1610. This allows Configuration Manager clients to access your Configuration Manager site system roles even if they are not on the intranet.

Like internet based client management, for clients to access site system roles using the Cloud Management Gateway, SSL certificates are required to authenticate computers and encrypt communications between the different layers of the service. To encrypt traffic between Configuration Manager clients and the site system server hosting the Cloud Management Gateway connector, Software Update Point, and Management point roles, you will also need to create a custom SSL certificate on the CA for the site system. An Azure management certificate is required to deploy the Cloud Management Gateway as well as the Cloud Distribution Point.

In the 1610 release, the Cloud Management Gateway only supports the management point and software update point roles. If you will be deploying anything other than software updates to clients managed via the Cloud Management Gateway, you will also need to configure a Cloud Distribution Point for clients to download content from.

The guide below covers the full process of creating the required certificates on the Issuing CA server, creating the Cloud Management Gateway and Cloud Management Gateway connection point, uploading management certificates to Azure, configuring the site system roles to accept cloud management gateway traffic, and verifying that clients on the internet can connect to the cloud management gateway. The last section also covers creating the Cloud Distribution Point.

More information on the Cloud Management Gateway, including prerequisites, can be found here [https://docs.microsoft.com/en-us/sccm/core/clients/manage/plan-cloud-management-gateway](https://docs.microsoft.com/en-us/sccm/core/clients/manage/plan-cloud-management-gateway)

The process for deploying Cloud Management Gateway includes the following steps:

1. Create and issue a custom SSL certificate for the Cloud Management Gateway (and optionally, the Cloud Distribution Point).
2. Create a client authentication certificate
3. Export the client certificate's root
4. Verify a unique Azure cloud service URL
5. Request the Cloud Management Gateway certificate from the Certification Authority
6. Upload the Cloud Management Gateway (and optionally, the Cloud Distribution Point) management certificate to Azure.
7. Create the Cloud Management Gateway in the Configuration Manager console
8. Install the Cloud Management Gateway connection point in the Configuration Manager console
9. Configure Site System Roles to accept cloud management gateway traffic
10. Verify Client Communication with the Cloud Management Gateway
11. Configure a Cloud Distribution Point (optional)
The first step is to **Create and issue a custom SSL Certificate**

The certificate created in the following steps can be used for both the Cloud Management Gateway and Cloud Distribution Point (optional).

To start, create a security group in Active Directory named *Configuration Manager Site Servers* – this group will hold the Configuration Manager primary site server(s) and the server that will host the Cloud Management Gateway connection point role.

Next, on your Issuing CA server, open the **Certification Authority** console, expand the server name, right click Certificate Templates – **Manage**
In the **Duplicate Template** dialog box, ensure that **Windows 2003 Server, Enterprise Edition** is selected, and then click **OK**.

On the General tab, enter a template name for the cloud management gateway certificate, such as **ConfigMgr Cloud Management Gateway Cert**

The validity period for the certificate can be extended as needed for your organization.
On the Request Handling tab, choose allow private key to be exported (don’t forget this step!).
On the **Security** tab, *remove* Enroll permissions from **Enterprise Admins**.

Add **Read** and **Enroll** permissions for the security group that holds your Configuration Manager site servers (the server that will be used for the Configuration Manager Cloud Management Gateway connection point should be in this group).

![Properties of New Template](image)

Click **OK** and close **Certificate Templates Console**.
Back in the Certification Authority console, right-click **Certificate Templates**, click **New**, and then click **Certificate Template to Issue**.

Choose the cloud management gateway certificate that was just created and click **OK**.
Note: If you also plan to use a Cloud Distribution Point, *follow the steps above again*, but name the certificate template something like ‘ConfigMgr Cloud Distribution Point’.
The next step is to **Create the client authentication certificate**

*Note:* A client certificate is required on any computer which will be managed via the Cloud Management Gateway. It is also required on the server that will host the Cloud Management Gateway connection point.

The fastest way to deploy the client certificate to all your machines is through an autoenrollment GPO. The process on how to create the autoenrollment GPO as well as how to import this certificate manually can be found [here](#) under the *Deploy the Client Certificate for Windows Computers* section.

If you do not already have a client certificate template, follow the steps below.

On your Issuing CA server, open the **Certification Authority** console, expand the server name, right click **Certificate Templates – Manage**
Right click the **Workstation Authentication** template & choose **Duplicate Template**.

In the **Duplicate Template** dialog box, ensure that **Windows 2003 Server, Enterprise Edition** is selected, and then click **OK**.

On the **General** tab, enter a name that will be used for the client certificates, such as **ConfigMgr Client Certificate**.
You can also increase the validity period of the certificate as necessary. (this one has been increased to 20 yrs).
On the **Security** tab, add **Read**, **Autoenroll** and **Enroll** permissions to the **Domain Computers** group.

Click **OK** and close **Certificate Templates** console.

Back in the Certification Authority console, right click on **Certificate Templates – New**
Choose **Certificate Template to Issue**.

Choose the client certificate that was just created and click **OK**.
After importing the certificate on a domain machine, **Export the Client Certificate’s Root**

Find the certificate root by logging on to a domain joined machine which already has a client cert (as created in the previous section). Right click on the **Start Menu – Run** and type `certlm.msc`.

Expand the **Personal – Certificates** node.
Double click the certificate which shows the intended purpose as **Client Authentication** & click the Certificate Path tab. Double click the root authority.
Click the **Details** tab and click **Copy to File...**

Choose the default values presented in the wizard and save the .cer to a location which can later be accessed to configure the Cloud Management Gateway.
Welcome to the Certificate Export Wizard

This wizard helps you copy certificates, certificate trust lists and certificate revocation lists from a certificate store to your disk.

A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.

To continue, click Next.

Export file format
Certificates can be exported in a variety of file formats.

Select the format you want to use:
- DER encoded binary X.509 (.CER)
- Base 64 encoded X.509 (.CER)
- Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)
  - Include all certificates in the certification path if possible
- Personal Information Exchange - PKCS #12 (.PFX)
  - Include all certificates in the certification path if possible
  - Delete the private key if the export is successful
  - Export all extended properties
- Microsoft Serialized Certificate Store (.SST)
Certificate Export Wizard

File to Export
Specify the name of the file you want to export

File name: C:\Users\config\Desktop\RootCertExport.cer

Next  Cancel

Certificate Export Wizard

Completing the Certificate Export Wizard

You have successfully completed the Certificate Export wizard.

You have specified the following settings:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>File Name</td>
<td>C:\Users\config\Desktop\RootCertExport.cer</td>
</tr>
<tr>
<td>Export Keys</td>
<td>No</td>
</tr>
<tr>
<td>Include all certificates in the certification path</td>
<td>No</td>
</tr>
<tr>
<td>File Format</td>
<td>DER Encoded Binary X.509 (*.cer)</td>
</tr>
</tbody>
</table>

Finish  Cancel
Before uploading the management certificate to Azure, **Verify a unique Azure cloud service URL.**

*Note:* Do not actually create the cloud service when verifying the Azure cloud service URL. The Cloud Management Gateway setup will do this for us.

Logon to the Azure portal at portal.azure.com

The cloud service name will route to `<CloudServiceName>.cloudapp.net`; since this is an Azure based service, it needs to be a unique name and therefore it is best to verify the name before adding this info to Configuration Manager.

In the Azure Portal, you will see a Cloud Services node on the left. Choose to create a new cloud service.
If you attempt to use a DNS name which is already in use, you will see the message below.

Note down the unique DNS name(s) that will be used for the Cloud Management as you will add this information to Configuration Manager.
The next step is to **Request the Cloud Management Gateway certificate from the Certification Authority**

When requesting the custom web server certificate, provide an FQDN for the certificate's common name that ends in **cloudapp.net** for using cloud management gateway on Azure public cloud or **usgovcloudapp.net** for the Azure government cloud.

Logon to the server which will serve as your **Cloud Management Gateway connection point**.

Right click on the **Start Menu – Run** and type **certlm.msc**

![Screenshot of Run](image)

Expand the **Personal – Certificates** node.
Expand **Personal** & right click on **Certificates** – **Request New Certificate**

On the **Certificate Enrollment** page, you should see the cloud management gateway certificate which was created earlier.
Click on the blue link ‘more information is required to enroll....’

In the **Certificate Properties**, on the **General** tab, enter the full name of what you will use for the cloud management gateway service.
Under the Subject Name section, change Type to Common Name and enter the name of the cloud management gateway service.

Click Add.
Click **OK** to close out of Certificate Properties.

**Enroll** in the certificate.

![Certificate Enrollment window]

You will see your certificate in the list:

<table>
<thead>
<tr>
<th>Issued To</th>
<th>Issued By</th>
</tr>
</thead>
<tbody>
<tr>
<td>corp-HYD-APP1-CA</td>
<td>corp-DC1-CA</td>
</tr>
<tr>
<td>tejusccmproxy.contoso.com</td>
<td>corp-HYD-APP1-CA</td>
</tr>
</tbody>
</table>
Right click on the certificate – All Tasks – Export

Choose Yes, Export the private key
Secure the certificate with a password & note down this password as we will need it in the next steps.
Save the resulting certificate as a .pfx file.

*Run through the certificate export wizard again, and this time choose ‘No, do not export the private key.’*

Save the resulting certificate as a .cer file.

At the end of this process, you should have two certificates saved.
(Optional) The next step is to **Request the Configuration Manager Cloud Distribution Point Certificate**

If you are also setting up a Cloud Distribution Point, follow these steps to request the web server certificate.

Logon to your Configuration Manager site server (or another site system server).

Right click on the **Start Menu – Run** and type `certlm.msc`

Expand the **Personal – Certificates** node.
Expand** Personal & right click on Certificates – Request New Certificate**

On the **Certificate Enrollment page**, you should see the clouds distribution point certificate which was created earlier.
Click on the blue link ‘more information is required to enroll....’

In the Certificate Properties, on the General tab, change the type dropdown to Common Name and enter the full name for what you will use for the cloud distribution point.

**Note:** Specify your choice of service name and your domain name by using an FQDN format. For example: `clouddp1.contoso.com`. It does not matter what service name you specify, as long as it is unique in your namespace. You will use DNS to create an alias (CNAME record) to map this service name to an automatically generated identifier (GUID) and an IP address from Windows Azure. That process is described [here](#) under the ‘Configure name resolution for cloud-based distribution points’ section.

Click **Add**.
Click **OK** to close out of Certificate Properties.

**Enroll** in the certificate.

You will see your certificate in the list.
Right click on the certificate – **All Tasks – Export**

Choose **Yes, Export the private key**
Secure the certificate with a password & note down this password as we will need it in the next steps.
Save the resulting certificate as a .pfx file.

*Run through the certificate export wizard again, and this time choose ‘No, do not export the private key.’*

Save the resulting certificate as a .cer file.

At the end of this process, you should have two certificates saved.
The next step is to **Upload the management certificate to Azure (Cloud Management Gateway and Cloud Distribution Point)**

For Configuration Manager to access the Azure API and Cloud Management Gateway and/or Cloud Distribution Point service, we need to upload an Azure Management Certificate to the portal.

Login to the Azure classic portal at [https://manage.windowsazure.com](https://manage.windowsazure.com)

Choose the correct subscription to associate the certificate with. If the subscription needs to be changed, press the Subscriptions text at the top right of the portal.

Select the Settings node on the left side of the portal, and choose the **Management Certificates** tab.

*Note down your Subscription ID as we will need this when creating both the Cloud Management Gateway and Cloud Distribution Point in Configuration Manager.*

Requirements for an Azure Management Certificate can be found [here](https://manage.windowsazure.com) under the **Create a New Self Signed Certificate** section.

Click **Upload**.
Browse to the .cer file that was created in the previous steps and click the checkbox to complete the upload process. Upload the certificates for both the Cloud Management Gateway and optionally, the Cloud Distribution Point.

Cloud Management Gateway

Upload a management certificate

Upload a certificate (.cer) file for managing your subscription.

FILE

CloudProxCer.cer

Cloud Distribution Point

Upload a management certificate

Upload a certificate (.cer) file for managing your subscription.

FILE

CloudDPCer.cer
After uploading the management certificate(s) to Azure, **Create the Cloud Management Gateway in Configuration Manager**

In the Configuration Manager console, navigate to **Administration – Cloud Service – Cloud Management Gateway**

Choose **Create Cloud Management Gateway**

On the General page, enter your Azure Subscription ID and browse to the .pfx certificate that was saved in the earlier steps.

You will be prompted to enter the password for the .pfx certificate
Specify details for this cloud service

Specify the subscription ID for the cloud service, and specify the management certificate that was uploaded to that service.

Subscription ID: 

- Microsoft Azure Government subscription

Management certificate: C:\Users\svc-configure\Desktop\CloudProxy

Read the privacy statement online.

Password

Password: **********

OK Cancel
On the Settings page, enter the following:

**Service name:** the cloud service name which was verified in the earlier steps (example: tejucloudproxy). Configuration Manager will populate this value after uploading the certificate.

**Description:** add a description for the Cloud Management Gateway; this will later show up in the Azure portal.

**Region:** Geographical region based on your organization.

**Instance number:** Specify the number of instances you want to run.

**Certificate file:** select the pfx certificate created for the Cloud Management Gateway.

**Service FQDN:** specify the same FQDN service name that was created when the certificate was requested.

**Root Certificate file:** this is the client root cert which was exported in the earlier steps.

*Uncheck* the box to Verify Client Certificate Revocation (*unless* you are publicly publishing CRL info).
In the 1610 release, if the certificate does not specify a `.cloudapp.net` name, you will see the message below.

![Service Certificate]

On the Alerts page, make any modifications for alerts on outbound data transfer.

![Create Cloud Management Gateway Wizard]
This wizard will create a new site system cloud service that has the following settings:

**General**
- Subscription ID: c633d533-41cc-4154-b08d-690b8e4b33d
- Management Certificate: C:sers\svso-configmgr\Desktop\CloudProxy\PFX.pfx

**Settings**
- Service Name: sso:cloudproxy
- Description: ConfigMgt Cloud Management Gateway
- Primary Site: Config Mgt HQ (CM1)
- Region: Central US
- Service Certificate: C:sers\svso-configmgr\Desktop\CloudProxy\PFX.pfx
- CName: sso:cloudproxy.cloudapp.net
- Number of Instances: 1
- Root Certificate: C:sers\svso-configmgr\Desktop\ConfigMgtCloudProxy\ClientRoot.csr
- Verify client certificate revocation: enabled True

**Alerts**
- Outbound Data Transfer Threshold Enabled
- Outbound Data Transfer Threshold: 10000 GB
- Outbound data transfer warning alert level: 50%
- Outbound data transfer critical alert level: 90%

To change these settings, click Previous. To apply the settings, click Next.
There are a few different methods that we can use to verify that the Cloud Management Gateway was created successfully.

In the Configuration Manager console, you should see a new entry under Service Name, with the Status Description showing *Provisioning completed*.

In the Azure portal, you should see the Cloud Service created and running.
The Configuration Manager site server **CloudMgr.log**, located at `<ConfigMgr Install Dir\Logs>`, will also have information on the cloud management gateway provisioning status.

You will see an entry in the log stating *Deployment instance status for service <service name> is ReadyRole*.
The next step is to **Install the Cloud Management Gateway Connection Point**

In the Configuration Manager console, navigate to **Administration – Site Configuration – Servers and Site System Roles**

If you have already added the server which will serve as your cloud management gateway connection point, right click on that server. If not, right click on Servers and Site System roles, and choose Create Site System Server.

On the System Role Selection page, choose the **Cloud management gateway connection point** site system role.
On the Cloud management gateway connection page, verify that the Cloud Management Gateway service name matches the information from the Cloud Management Gateway created in the earlier steps.
Click **Next** to complete the wizard.
Parking connection 2b172de3-6cd3-4fba-9f0c-282023199d33 to Proxy server TEJUCLOUDPROXY.CLOUDAPP.NET:1014... SMS_CLOUD_PROXYCONNECTOR 11/13/2016 8:19:23 PM 2888 (0x0B48)

Connection 2b172de3-6cd3-4fba-9f0c-282023199d33 finished initialization and started SMS_CLOUD_PROXYCONNECTOR 11/13/2016 8:19:23 PM 2888 (0x0B48)

ReportOnlineConnections - state message to send: <Connections ServerName="HYD-APP1.CORP.CONTOSO.COM"><Connection ID="2b172de3-6cd3-4fba-9f0c-282023199d33" ConnectedInstances="1"/></Connections> SMS_CLOUD_PROXYCONNECTOR 11/13/2016 8:19:23 PM 2888 (0x0B48)
The last server side configuration is to **Configure Site System Roles to Accept Cloud Management Gateway Traffic**

The last thing to configure on the site are the additional site system roles we want to use for the cloud management gateway service. In this example, this server will also host as a Management Point and Software Update Point. For each one of these site system roles, ensure that you choose an HTTPS connection and ‘Allow Configuration Manager Cloud Management Gateway traffic.’

The **site server** will also need to be configured to *Use PKI client certificate (client authentication capability) when available.*

**Software Update Point:**

![Software update point Properties](attachment:image)
Management Point:

Since the Management Point will need to support HTTPS connections from internet clients, the HTTPS binding in IIS will require an SSL Certificate. The certificate template which was created for the Cloud Management Gateway can be used for IIS.

Logon to the server which will serve as your **Cloud Management Gateway connection point/Management Point**.
Right click on the **Start Menu – Run** and type **certlm.msc**

Expand the **Personal – Certificates** node.
Expand **Personal** & right click on **Certificates – Request New Certificate**

On the **Certificate Enrollment** page, you should see the cloud management gateway certificate which was created earlier.
Click on the blue link ‘more information is required to enroll….’

Keep the Full DN value under Subject name blank.

Under **Alternative Name – DNS**, enter the FQDN of the management point server.

Click **Add**.
Click on the General tab and enter a friendly name for the certificate (this will make the cert easier to identify in IIS).

Click **OK** to close out of Certificate Properties.
Enroll in the certificate.

Open IIS Manager.

Expand Sites – Default Web Site.

Right click on Default Web Site – Edit Bindings.
Click **Add** to create an HTTPS binding (443). If there is already an entry for HTTPS, click **Edit**.

Under the SSL Certificate dropdown, choose the SSL certificate from the previous steps. Click **OK**.
In the properties of the site, under **Administration – Site Configuration – Sites**, right click on your primary site and choose the **Client Computer Communication** tab.

Check the box for ‘**Use PKI client certificate (client authentication capability) when available**’

Uncheck the box for ‘**Client check the certificate revocation list (CRL) for site systems**’
The last step is to **Verify Client Communication with the Cloud Management Gateway**

Once the server side configurations are complete, we can verify if clients are able to successfully communicate with the site via the Cloud Management Gateway.

On a client that is connected to the internet, run a *Machine Policy Retrieval & Evaluation cycle*. In the **Configuration Manager** applet, under the **Networking** tab you should see the name of the Cloud Management Gateway service listed as an Internet-based management point (FQDN)
The ClientLocation.log should indicate that the machine is using the internet management point:

Rotating internet management point, new management point [1] is: TEJUSCCMGATEWAY.CLOUDAPP.NET/CCM_Proxy_MutualAuth/72057594037988005 (0) with capabilities: <Capabilities SchemaVersion="1.0"><Property Name="SSL" Version="1" /></Capabilities>

ClientLocation 12/12/2016 2:41:05 PM 4168 (0x1048)

Rotating assigned management point, new management point [1] is: FC-APPSRV1.FOURTHCOFFEE.LOCAL (8458) with capabilities: <Capabilities SchemaVersion="1.0"><Property Name="SSL" Version="1"/></Property>

ClientLocation 12/12/2016 2:41:05 PM 4168 (0x1048)

Assigned MP changed from <FC-CM01.FOURTHCOFFEE.LOCAL> to <FC-APPSRV1.FOURTHCOFFEE.LOCAL>. ClientLocation 12/12/2016 2:41:06 PM 4168 (0x1048)

You can also verify that clients can contact the Cloud Management Gateway service via the following PowerShell command:
Create Cloud Distribution Point (optional)

An optional step is to create a Cloud Distribution Point in Configuration Manager. The Cloud Distribution Point can be used to host applications/packages. Note that a Cloud Distribution Point is not required to host Microsoft software updates as clients will download software updates directly from Microsoft update.

In earlier steps, we had already configured the Cloud Distribution Point certificate and uploaded that certificate to the Azure Portal.

In the Configuration Manager console, find Administration – Cloud Services – Cloud Distribution Point. Right click on Cloud Distribution Point and choose Create Cloud Distribution Point

The Cloud Distribution Point setup wizard will open.

On the General page, enter your Azure Subscription ID & upload the Management Certificate (pfx format) for the Cloud Distribution Point which was created earlier.
Click **Next**.

On the Settings page, enter the following information:

- **Service name**: this will populate based on the certificate that was added in the previous step
- **Description**: add a description for the Cloud Distribution Point
- **Region**: specify a region for the cloud service to be hosted in
**Primary Site**: in the dropdown, choose the site server that will distribute content to the Cloud Distribution Point

**Certificate file**: enter the management certificate (pfx format) again

**Service FDQN**: this will populate based on the certificate common name

Click **Next**.

On the Alerts page, you can define a storage alert threshold and monthly transfer alert threshold. This will allow you to monitor the data deployed to the cloud distribution point as well as transfer of content from the cloud distribution point to clients.
Click **Next** to see a Summary of all the settings for the Cloud Distribution Point.

Click **Next** through the rest of the wizard to initiate the Cloud Distribution Point installation.

The SMS_CLOUD_SERVICES_MANAGER component will initiate a connection to Azure to create a Storage Account. You will see the Storage Account in Azure after Configuration Manager has initiated the deployment. The name of the Storage Account will match the Service Name value on the General page of the Create Cloud Distribution Point wizard.
In the Configuration Manager console, you will see the Cloud Distribution Point in a provisioning status.

The CloudMgr.log on the site server will also have some status information on the storage account deployment.

TaskManager: Task [CreateDeployment for service 09193e0871424e41a6a7b74c] status is RanToCompletion  SMS_CLOUD_SERVICES_MANAGER  12/7/2016 1:00:13 AM  5876 (0x16F4)

TaskManager: Removing task [CreateDeployment for service 09193e0871424e41a6a7b74c] from running tasks.  SMS_CLOUD_SERVICES_MANAGER  12/7/2016 1:00:13 AM  5876 (0x16F4)

TaskWorker: Starting task: [Upload MP Certificates for service 09193e0871424e41a6a7b74c]  SMS_CLOUD_SERVICES_MANAGER  12/7/2016 1:00:13 AM  6072 (0x17B8)

Upload mp certs starting for service 09193e0871424e41a6a7b74c...  SMS_CLOUD_SERVICES_MANAGER  12/7/2016 1:00:14 AM  7460 (0x1D24)

Storage service already exists 09193e0871424e41a6a7b74c  SMS_CLOUD_SERVICES_MANAGER  12/7/2016 1:00:14 AM  7460 (0x1D24)

Uploading certificate for server fc-cm01.fourthcoffee.local to publickeystore for service 09193e0871424e41a6a7b74c.  SMS_CLOUD_SERVICES_MANAGER  12/7/2016 1:00:15 AM  7460 (0x1D24)

Uploading bytearray to container publickeystore with blob name fc-cm01.fourthcoffee.local.pubkey using storage account 09193e0871424e41a6a7b74c  SMS_CLOUD_SERVICES_MANAGER  12/7/2016 1:00:15 AM  7460 (0x1D24)

UpdateServiceInfo: Service 16777220 to ServiceState 0 ServiceInfoStateDetail 1.  SMS_CLOUD_SERVICES_MANAGER  12/7/2016 1:00:15 AM  7460 (0x1D24)

SetTaskState: Task 16777247 State Completed.  SMS_CLOUD_SERVICES_MANAGER  12/7/2016 1:00:15 AM  7460 (0x1D24)

Once the deployment is complete, the Cloud Distribution Point will show as Ready in the Configuration Manager console.
Before clients can access the cloud-based distribution point, they must be able to resolve the name of the cloud-based distribution point to an IP address that Microsoft Azure manages. Clients do this in two stages:

1. They map the service name that you provided with the Configuration Manager cloud-based distribution point service certificate to your Microsoft Azure service FQDN. This FQDN contains a GUID and the DNS suffix of cloudapp.net. The GUID is automatically generated after you install the cloud-based distribution point. You can see the full FQDN in the Microsoft Azure Management Portal, by referencing the SITE URL in the dashboard of the cloud service. An example site URL is http://d1594d4527614a09b934d470.cloudapp.net.

2. They resolve the Microsoft Azure service FQDN to the IP address that Microsoft Azure allocates. This IP address can also be identified in the dashboard for the cloud service in the Microsoft Azure portal, and is named PUBLIC VIRTUAL IP ADDRESS (VIP).

Login to http://manage.windowsazure.com. Click on Cloud Services on the left, and find the cloud service associated with your Cloud Distribution Point.

Find the Site URL.

MANAGEMENT SERVICES
Operation Logs

SITE URL
http://09193e0871424e41a6a7b74c.cloudapp.net/

DEPLOYMENT NAME
09193e0871424e41a6a7b74c-deployment

DEPLOYMENT LABEL
09193e0871424e41a6a7b74c-deployment

PUBLIC VIRTUAL IP (VIP) ADDRESS
52.173.93.75

On your DNS server, Open DNS Manager – Forward Lookup Zones

Right click on your domain and choose New Alias (CNAME)
To create a new host record, add the following information:

**Name**

**FQDN** (add the Site URL from Azure)

The Cloud Distribution Point setup is now complete, and you can start to distribute content to the Cloud Distribution Point. After distributing content to the Cloud Distribution Point (you can follow the same process as you would with distributing content to any other distribution point), verify these entries in the **distmgr.log**.
Successfully updated the package server status for 
"Display=fchclouddp.fourthcoffee.local" MSWNET:"SMS_SITE=CM1"
\fchclouddp.fourthcoffee.local\ for package CM10001E, Status 0

You should also see in the Configuration Manager console that the content was distributed successfully

You can also verify content has distributed successfully using Microsoft Azure Storage Explorer, which is available [here](#).

Login to your Azure account & under Storage Account, find the account associated with the Cloud Distribution Point. Under Blog Containers, you should see a content node which will display the content that has been distributed to the Cloud Distribution Point via Configuration Manager.
Additional References

Use a cloud-based distribution point with System Center Configuration Manager

Install cloud-based distribution points in Microsoft Azure for System Center Configuration Manager

Deploying the Service Certificate for Cloud Based Distribution Points

Plan for cloud management gateway in Configuration Manager

Setup Cloud Management Gateway

Monitor Cloud Management Gateway in Configuration Manager