Microsoft Exchange Server 2013 Deployment

https://campus.barracuda.com/doc/13860949/

This article applies to:

- Barracuda Load Balancer running firmware version 3.6.1.009 or higher
- Barracuda Load Balancer 340 or above
- Microsoft® Exchange Server 2013

This article assumes you are connected to the Barracuda Load Balancer web interface and have an activated subscription.

Step 1. Create Services

1a. Log into the Barracuda Load Balancer as the administrator, and go to the **BASIC > Service** page.

1b. Click **Advanced View**, and add a Service for all items in Table 1 below:

1. In the **Server Name** field, enter the Service name
2. In the **Service Type** field, select the Server type
3. In the **Virtual IP** field, enter the Virtual IP address
4. Select the protocol, and enter it in the port in the associated field
5. Choose the interface to be bound to
6. Add the Real Server IP addresses, and add the port of the CAS servers IP address. To add multiple servers click on the ⊞ button.

Table 1. Services.

Service Name	**Virtual IP Address**	**Protocol**	**Service Type**	**Service Port**	**Real Server Port**	**Monitor Port**
HTTPS	VIP Address of the FQDN that client use to access mail.domin.local autodiscover.domain.local eas.domain.local outlook.domain.local oab.domain.local ecp.domain.local	TCP	Layer 7 HTTPS	443	443	443

HTTP Redirect	VIP Address of the FQDN that client use to access mail.domin.local autodiscover.domain.local eas.domain.local outlook.domain.local oab.domain.local ecp.domain.local	TCP	Layer 7 HTTP	80	N/A Redirect Service	80

Step 2. Edit the Settings

Once the Services are configured, edit the Service settings using the values in Table 2.

Table 2. Service Settings.

Service Name	Service Details Page Setting
HTTPS	Persistence Setting • Set Persistence Time: 1200 • Persistence Type: HTTP Cookie • Cookie name: Choose a cookie name Session Timeout Settings (found at the bottom of the page in the **Advanced** section) • Set Session Timeout: 1200 SSL Offloading • Certificate: Choose a certificate that you have uploaded to the Barracuda Load Balancer
HTTP Redirect	In the General Section, set the value Enable HTTP Redirect to yes.

Step 3. Configure HTTPS Connection to the CAS Server

Click **Edit** on the Server setting using the values in Table 3.

Table 3. Server Details

Service Name	Server Details Setting
HTTPS	Edit the Server details, • Edit the SSL the config to enable HTTPS / SSL • Certificate validation can be ignored

Step 4. HTTPS Service Health Checks

4a. Go to the **BASIC > Services** page, and click the **Edit** icon for each Real Server associated with the OWA - HTTPS Service; The Real Server Detail page displays.

4b. In the **Real Server Detail** section, set **Port** to 443.

4c. In the **Server Monitor** section, set the following values:

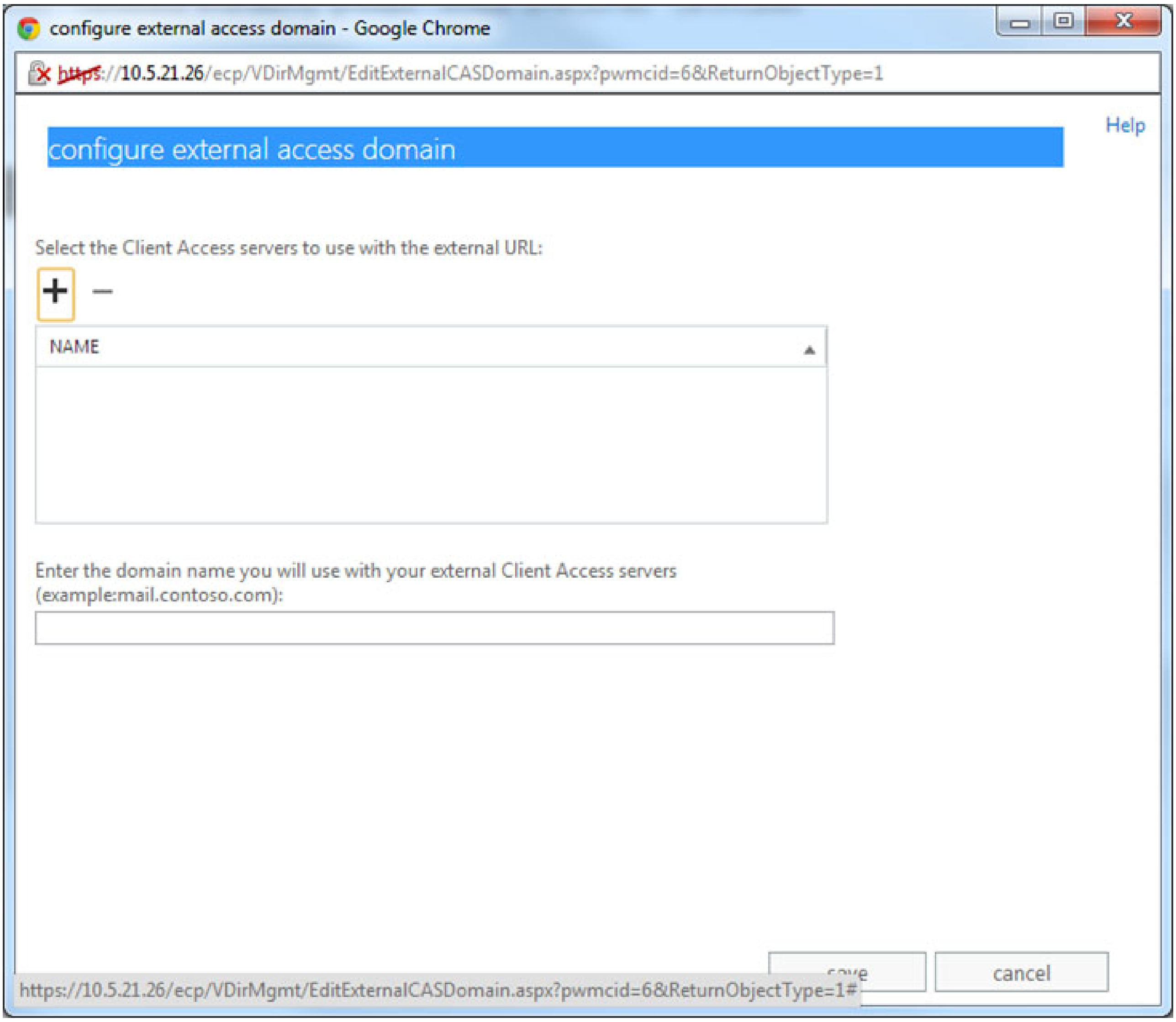
1. Set the Testing Method to Simple HTTPS.
2. Set the Port to 443.
3. Change the Test Target to:
   /owa/auth/logon.aspx
   If you have modified the path of logon.aspx from the Exchange 2013 default, use the modified path in the Test Target.
4. Config Test Match to:
   2011 Microsoft Corporation
5. Change Additional Headers to:
   User-Agent: Barracuda Load Balancer Server Monitor
6. Set the Status Code to 200 and set the Test Delay to 30.

Step 5. Configure DNS

Once the configuration is complete you can configure the DNS for mail.domain.local, autodiscover.domain.local ,eas.domain.local, outlook.domain.local, oab.domain.local , ecp.domain.local to point to the VIP created for the HTTP & HTTPS Service using the following steps:

5a. Configure HTTPS namespace on the Exchange Admin Center:

1. Log into your Microsoft Exchange Admin Center.
2. Click on Servers, click on the virtual directories, click edit on CAS1, and configure external access domain:



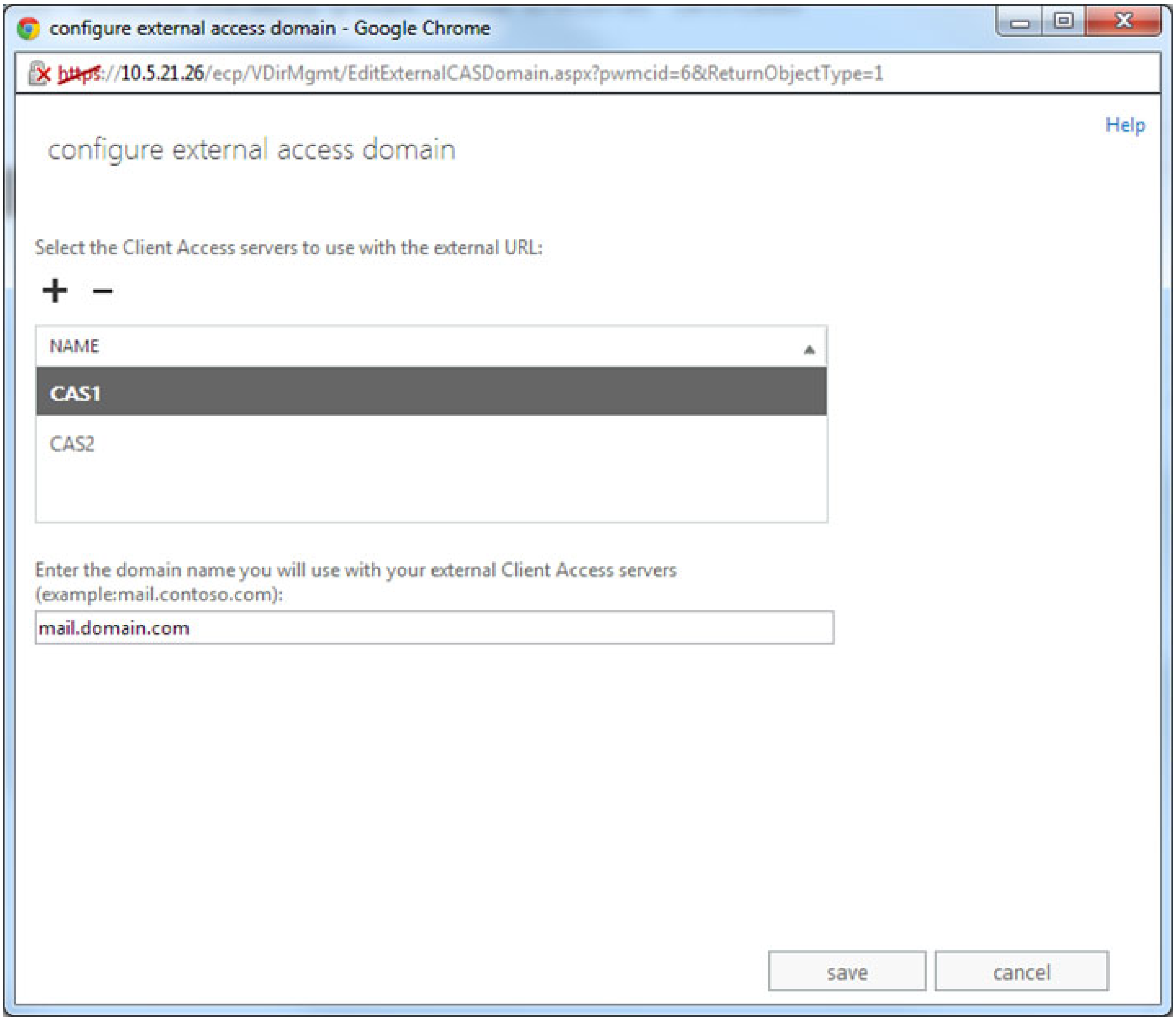
configure external access domain - Google Chrome
https://10.5.21.26/ecp/VDirMgmt/EditExternalCASDomain.aspx?pwmcid=6&ReturnObjectType=1
Help
+
−
NAME
save
cancel
https://10.5.21.26/ecp/VDirMgmt/EditExternalCASDomain.aspx?pwmcid=6&ReturnObjectType=1#

configure external access domain

Select the Client Access servers to use with the external URL:

Enter the domain name you will use with your external Client Access servers (example:mail.contoso.com):

3. Add both the servers to the list and configure the external domain:


configure external access domain - Google Chrome
https://10.5.21.26/ecp/VDirMgmt/EditExternalCASDomain.aspx?pwmcid=6&ReturnObjectType=1
Help
+ −
NAME
save
cancel

configure external access domain

Select the Client Access servers to use with the external URL:

CAS1

CAS2

Enter the domain name you will use with your external Client Access servers (example:mail.contoso.com):

mail.domain.com

5b. Click **save** to save the configuration.

> Barracuda Networks recommends that you use the same certificate on both the Barracuda Load Balancer and on CAS arrays.

Step 6. Configure Hub Transport Services on the Barracuda Load Balancer

On each active Barracuda Load Balancer that handles traffic for Hub Transport Services, complete the following steps to configure Hub Transport Services for Exchange.

6a. Log into the Barracuda Load Balancer, go to the **BASIC > Services** page, and expand the **Add**

New Service section.

6b. Add the SMTP Service and, optionally, the SMTP/SSL Service listed in Table 4.

Table 4. SMTP Service

Service Name	Virtual IP Address	Protocol	Service Type	Service Port	Real Server Port
SMTP	VIP address for FQDN that resolves to CAS array. For example: exchange.domain.local	TCP	TCP Proxy	25	25
(Optional) SMTP/SSL	VIP address for FQDN that resolves to CAS array. For example: exchange.domain.local	TCP	TCP Proxy	587	587

- In the **Real Server** field, if your Real Servers are consolidated with both the CAS and HUB roles installed, enter their IP addresses for each Service that you create. If the Hub Transport role is installed on separate servers (other than those with the CAS role), enter the IP addresses of only the servers with the Hub role installed. The created Services load balance the SMTP traffic to the Hub transport servers for incoming client SMTP connections.

Exchange Hub Transport should never be configured to communicate with other internal Microsoft Exchange Hub Servers via the Barracuda Load Balancer. The Service on the Barracuda Load Balancer should only be used for client connections or inbound connections from other organizations.

Figures

1. more button.jpg
2. 2013_01.jpg
3. 2013_02.jpg