How to Deploy Microsoft Exchange Server 2010 in a Two-Armed Configuration

https://campus.barracuda.com/doc/3538953/

Before completing a two-armed configuration, verify you have completed all of the steps in Microsoft Exchange Server 2010 Deployment.

If you plan to use a one-armed configuration, go to How to Deploy Exchange 2010 in a One-Armed Configuration.

In a two-armed configuration, create Services for Exchange Services on the active Barracuda Load Balancer by doing the following steps.

Step 1. Create Services

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

1b. For each entry in the following table, add a Service:

1. Enter the **Service Name**.
2. Enter the **Virtual IP Address** specified in the table.
3. Select the protocol, and enter the **Port** specified for the Service in the table.
4. Enter the IP address of each real server in the CAS array under **Real Servers**.

Service Name	Virtual IP Address	Protocol	Service Type	Service Port	Real Server Port	Monitor Port
Exchange	VIP address for FQDN that resolves to CAS array e.g. `exchange.domain.local` **Note**: This service is helpful in cases where there is no port restriction.	TCP	Layer 4	ALL	N/A	443
OWA - HTTPS	VIP address for FQDN that clients use to access OWA e.g. `owa.domain.local` **Note**: This service is helpful if there are port restrictions, and traffic is allowed only for port 443.	TCP	Layer 7 - HTTPS	443	80	80

HTTP Redirect	VIP address for FQDN that clients use to access OWA e.g. `owa.domain.local` **Note**: This service is needed to automatically redirect the users to the HTTPS service.	TCP	Layer 7 - HTTP	80	N/A (Redirect Service)	80

1c. Add the following Services if you have deployed the Hub Transport Role on separate servers from the servers with the CAS Role. The Services in the following table are optional and depend on your environment.

Service Name	Virtual IP Address	Protocol	Service Type	Service Port	Real Server Port	Monitor Port
SMTP	VIP address for FQDN that resolves to HUB Services e.g. `smtp.domain.local`	TCP	Layer 4	25	25	25
SMTP / SSL (optional)	VIP address for FQDN that resolves to HUB Services e.g. `smtp.domain.local`	TCP	Layer 4	587	587	587

1d. Once all of the Services are created, use the following steps to edit the settings:

1. On the **BASIC > Services** page, for each Service, click the **Edit** icon to edit the settings.
2. In the **Service Detail** page, for each service in the following table, edit the settings and save your changes:

Service Name	Service Detail Page Settings
Exchange	In the **Persistence** section, set **Persistence Time (Seconds)** to *1200.*
OWA - HTTPS	• In the **General** section, set the value of **Service Type** to *Layer 7 - HTTPS*. • In the **SSL Offloading** section, in the **Certificate** menu, select the certificate that you uploaded in Preparing Your Environment for SSL Offloading. • In the **Persistence** section, set **Persistence Time** to *1200*. Set **Persistence Type** to *HTTP Header*. In the **Header Name** field, set the value to *Authorization*. • In the **Advanced Options** section, set **Session Timeout** to *1200*.
HTTP Redirect	In the **General** section, set the value of **Service Type** to *Layer 7 - HTTP*. Set **Enable HTTP Redirect** to *Yes*.

1e. Change the port and Server Testing Method for every Real Server associated with the OWA – HTTPS / Outlook Anywhere Service:

1. On the **BASIC > Services** page, click the **Edit** icon for each Real Server associated with the OWA - HTTPS Service; The **Real Server Detail** page displays.
2. In the **Real Server Detail** section, set **Port** to *80*.
3. In the **Server Monitor** section:

- Set the **Testing Method** to *Simple HTTP*.
- Set the **Port** to *80*.
- Change the **Test Target** to
  `/owa/auth/logon.aspx`
  If you have modified the path of logon.aspx from the Exchange 2010 default, use the modified path in the **Test Target**.
- Change **Test Match** to
  `2006 Microsoft Corporation`
- Change **Additional Headers** to
  `User-Agent: Barracuda Load Balancer Server Monitor`
- Set the**Status Code** to *200* and set the **Test Delay** to *30*.

1f. Update TCP timeout values on the Barracuda Load Balancer:

1. Log into the Barracuda Load Balancer, and go to the **ADVANCED > System Settings** page.
2. Set the **TCP Connections Timeout** and **TCP Closed ConnectionsTimeout** to *1200* seconds.

Step 2. Configure a Rewrite Rule

Use the following steps to configure a rewrite rule to add '/OWA' to the end of the URL:

2a. Log into the Barracuda Load Balancer, and go to the **WEBSITES > URL Rewrites** page.

2b. In the **Layer 7 - HTTP Services** section, select the newly created service.

2c. In the **HTTP Request Rewrite** section, create a new rule, for example **OWA**:

- In the **Rule Order** field, enter *3*
- From the **Action** drop-down menu, select *Redirect URL*
- Leave the **Header Name** field blank.
- In the **Old Value** field, enter **/**
- In the **Rewrite Value** field, enter slash (/) and the rule name, for example **/OWA**
- In the **Rewrite Condition** field, enter *****

2d. Click **Add.**

Your installation is complete. Continue to How to Test the Microsoft Exchange Server 2010 Deployment Configuration.