

How to Secure Communication with Real Servers

<https://campus.barracuda.com/doc/18874415/>

If you want all communication between the Barracuda Load Balancer ADC and the real servers to be encrypted using SSL, you can configure this on a per-server basis. This is also known as back-end SSL. To configure the Barracuda Load Balancer ADC to encrypt the data sent to a server:

1. Copy the certificate from each server, and upload the certificate to the **BASIC > Certificates** page as a back-end certificate.
2. On the **BASIC > Services** page, edit each real server for the secure service and specify that the server uses SSL by navigating to the **SSL** section and setting **Server uses SSL** to **On**. You can optionally configure the following SSL settings for each real server:
 - **SSL Protocols** - The SSL protocols used by the service to connect to the server. Servers must support OpenSSL version 1.0.1 or higher to work with TLS v1.1 or TLS v1.2.
 - **Enable SNI** - Some servers require a hostname extension in the SSL handshake for the connection to be accepted. Enable this option if your server requires a hostname extension. The hostname is picked from the host header in the incoming HTTP request.
 - **Validate Certificate** - Requires the server certificate to be validated using certificates from well-known Certificate Authorities. If set to **No**, any certificate from the server is accepted, including self-signed or test certificates.
 - **SSL Error Logs** - Set to **On** to help troubleshoot the SSL handshake problems in detail. These logs are displayed with the system logs and can be viewed from the **ADVANCED > System Logs** page.
3. In the **Certificates** section, select the certificate that you uploaded. If necessary, change the port used by the real server.

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