Deploying NetScaler Gateway in ICA Proxy Mode

Deployment Guide

This deployment guide defines the configuration required for using the NetScaler Gateway in ICA Proxy Mode.
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The Citrix NetScaler application delivery controller (ADC) is a world-class product with the proven ability to load balance, accelerate, optimize, and secure enterprise applications. NetScaler Gateway provides users with secure remote access to XenApp, XenDesktop and XenMobile applications across a range of devices including laptops, desktops, thin clients, tablets and smart phones.

**Introduction**

This document takes the user through the steps of configuring a NetScaler Gateway and Storefront for a XenApp/XenDesktop VDI solution. The document first describes the steps for configuring the NetScaler Gateway component and then, for configuring the Storefront.
Product Versions
The table below lists the software versions used for testing this integration. The integration process should also work with higher versions of the same.

<table>
<thead>
<tr>
<th>Product</th>
<th>Minimum Required Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>NetScaler Gatewat</td>
<td>11.0-63.16</td>
</tr>
<tr>
<td>StoreFront</td>
<td>2.6.0.5031</td>
</tr>
<tr>
<td>XenApp</td>
<td>7.6</td>
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</tbody>
</table>

Prerequisites
Before starting the configuration steps provided in this document, please ensure that the below information is readily available.

1. Admin login credentials for NetScaler Gateway management console
2. NetScaler Gateway IP address. This is the public facing IP to which users connects to from home or remotely
3. Corporate firewall must have rules to allow traffic to NetScaler Gateway IP address and port
4. Server certificate (cert-key pair) on NetScaler Gateway appliance. This certificate is bound to the NetScaler Gateway and should have the same common name as the FQDN used by the end users to access NetScaler Gateway. Know more about server certificates (cert-key pair) on NetScaler at CTX109260
5. Active Directory/LDAP server and admin bind details
6. Storefront server, site path and Store details that would be configured on Storefront
7. STA server and communication protocol (HTTP/HTTPS) details
8. Delivery controller and communication protocol (HTTP/HTTPS) details
Topology
This document uses the following topology for this deployment. The topology has one Storefront server, one XML broker & one DDC server (both represented using Delivery controllers), and one NetScaler Gateway. Since there will be one server of each type, the document does not specify any load balancing configurations as they are not necessary.

Section A: Configure NetScaler Gateway
1. Log into the management console of NetScaler Gateway by providing the admin credentials.
2. Click on the “XenApp and XenDesktop” tab under the “Integrate with Citrix Products” section on the left hand side after login.

3. Click the Get Started button on the NetScaler for XenApp and XenDesktop welcome page.

Welcome!

This wizard assist you in setting up NetScaler for XenApp and XenDesktop deployments. You can use this wizard to configure NetScaler to provide access to hosted virtual desktops (XenDesktop) and hosted Windows via (XenApp) through NetScaler Gateway.

Before you begin
Make sure you have the following information available.

Access through NetScaler Gateway
- Public IP address for NetScaler Gateway
- A server certificate for the NetScaler appliance
- LDAP/RADIUS based authentication server details
- Fully Qualified Domain Name (FQDN) of StoreFront/Web Interface Server

Optimization Features Overview
- TCP Profile Settings
- SSL Quantum Settings
- HTTP Compression

Load Balance StoreFront/Web Interface/Xen Farm
- IP address for the load balancing virtual server
- SSL certificate and/or pair
- Site path and PAgent Site Path
- Secure Ticket Authority Server

Security and Viability Overview
- AppIve Profile
- AppIve Policy
- AppIve Policy for HDX Insight
4. Select the **Storefront** option from the dropdown titled **What is your Citrix integration point** and click Continue.

5. Provide the NetScaler Gateway IP address and name.
6. Select the existing “Server Certificate” (cert-key pair on NetScaler) that will be assigned to NetScaler Gateway and click Continue.

7. In the Authentication section’s Primary authentication method dropdown, select Active Directory/LDAP option.
8. Provide the active directory details (IP address, port, Base DN, bind admin account and password, logon name attribute) and click Continue. Here,

**IP Address:** IP address where active directory service is running

**Port:** port on which active directory service is reachable

**Base DN:** search filter in the active directory where user details are available

**Service account:** Administrative account that will be used for LDAP binding and user search

**Server logon name attribute:** LDAP logon name attribute type that will be provided by the user

**Password:** Administrative account password

[Image of active directory configuration details]

9. Provide Storefront details and click Continue. Here,

**Storefront FQDN:** Storefront server’s FQDN

**Site Path:** Path for the Store that would be created on Storefront. Ensure “Web” is attached to the name of the Store.

**Single Sign-On Domain:** Domain in which Storefront server resides

**Store:** Name of the Store that will be created on the Storefront

**Secure Ticket Authority Server:** The STA server info in http[s]://IP format. If HTTPS is required, ensure that SSL is enabled on STA server

**Storefront Server:** IP address of the Storefront server

**Protocol:** Protocol (HTTP or SSL) using which Storefront should be accessed

**Port:** Port on which Storefront is available
10. Configuring the Xen Farm (the next step) is optional. Although the Configure dropdown shows an asterisk (**) next to it indicating that it is a mandatory field, this step can be skipped unless there is a load balancing requirement for the XML broker service or the DDC servers. **Note:** In this document, this step is skipped.

11. Click “Done” to finish the NetScaler Gateway configuration.
Section B: Configure StoreFront for remote access

1. Open the Citrix Storefront management console on the Storefront server and go to “Stores” tab on the left hand side.

2. Click the Create Store link on the right hand side of the console. The wizard shown below will open. Provide a store name and click Next.
3. Click to “Add” to provide delivery controllers information.

4. Provide the details of delivery controllers and click OK.
   - **Display-name**: Any name to identify the controller
   - **Type**: The type of deployment
   - **Servers**: Actual controller servers available in the environment (provide FQDNs)
   - **Transport type**: HTTP/HTTPS (if HTTPS is required, ensure the SSL is enabled on controller server)
   - **Port**: 80/443
5. Click **Next** to go to the remote access configuration section.

6. Under the Remote Access section, select the **No VPN tunnel** option. Then click on the **Add** button for the **NetScaler Gateway appliances** option.
7. Under the **Add NetScaler Gateway Appliance** section, provide the details of Gateway and click **Next**.

**Display name**: Any name for referring to the NetScaler Gateway.

**NetScaler Gateway URL**: The FQDN of the NetScaler Gateway that the end-user will access.

Note: The FQDN must match the common name in the server certificate that was associated on the NetScaler Gateway (Section-A, Step-6 of this document)

**Version**: Retain the default value

**Subnet IP address**: This parameter is optional, can be left blank

**Logon type**: Retain the default value (Domain) since we are using Active Directory based authentication

**Callback URL**: Required only for SmartAccess type deployment. Since this document doesn’t cover SmartAccess, leave this field blank
8. Under the **Secure Ticket Authority** section, provide the STA server info (FQDN) and click **Create**.

9. Under the **Create Store** section, the newly added NetScaler Gateway appliance will be added and visible. Select the new appliance and click **Create**.
10. Click on Finish to complete the Storefront Store creation process.

Section C: Login to NetScaler Gateway and launch applications
1. Access the NetScaler Gateway from a browser on the client machine. Ensure that the FQDN of NetScaler Gateway is used for the access and no SSL warning is received.
2. Provide Active Directory/LDAP user credentials and click on "Log On" button

![Login Screen](image1.jpg)

3. The user should be successfully logged into the Storefront. The virtual desktops and apps should be available for access. By default, the user is taken to the **Desktops** section

![Desktops Section](image2.jpg)
4. For accessing apps, click on the **Apps** button at the bottom of the page. The user will be shown the following page.

5. Click on the + button on the left hand side, then click on the **All Apps** link and click on any app that you want to add to the portal.
6. Click the application icon (in this case, Calculator) for launching the application.
Conclusion
The NetScaler Gateway provides a seamless and secure experience with XenApp and XenDesktop with the StoreFront integrated ICA proxy configuration described above.