

Step-by-step Terminal Server Enterprise Beta installation and configuration

This beta version of Elusiva **Terminal Server Enterprise** requires that all clients accessing the TSE farm utilizing web portal feature have the **RDC/RDP 6.1** client or later preinstalled¹. Microsoft released free clients for Windows® XP SP2 and SP3, Windows® Vista SP1 and Windows® Server 2008. It is possible to install RDC 6.1 made for Windows® XP SP2 on Windows® Server 2003 using compatibility mode. [Download the MS RDC 6.1 installer for Windows® XP SP2, right-click the file, select **Properties**, from **Compatibility** tab select **Compatibility mode** checkbox and set Windows® XP as the target system.] Users running platforms where RDC 6.1 or later is currently unavailable, such as x64 Windows XP, will have to use installable (stand-alone) Elusiva client.

Terminal Server Enterprise supports x86 and x64 Windows® XP, Server 2003 and Server 2008 as member/application server hosts². For multiuser access to individual application servers, Terminal Server Enterprise requires that application mode Terminal Services are preinstalled on all member servers. Application mode terminal services are not required for VDI or direct (single-user) access to physical machines such as blade PCs.

The following steps are necessary to get the basic functionality of Terminal Server Enterprise up and running in a small business environment:

1. Select All-In-One configuration when asked by setup script which components to install.
2. Open **Enterprise Management Console** and right-click Servers node to add your server to the managed group.
3. Right-click the farm [tree root] node and select **Properties** option.
4. Open **Advanced** tab and edit **Hostname** as necessary. **Hostname** should be set to the name [IP address] of the server. Installer sets to the Windows of name of the server. If server name is not a fully qualified DNS name [such as example.elusiva.com] you will need to change this parameter to a fully qualified name so that your machine can be accessed from WAN using web portal and/or RDP files. [Elusiva standalone client will work regardless.] In some situations server cannot be accessed by the same name from LAN and WAN. This issue can be resolved using various approaches including a “hard-coded” entry in LAN DNS table and/or local table [on Windows® XP/Server 2003 this information is stored in hosts file located under System32/drivers/etc].
5. Right-click **Published Items** node to publish Applications, Desktops and Documents.

¹ Starting with TSE build 0.7.1, web portal includes a self-provisioning client therefore MS RDC 6.0.6001 or later with at least RDP 6.1 support is no longer a prerequisite [as long as your browser runs Java or ActiveX]. Users are encouraged to utilize a full installable (stand-alone) TSE client compatible with x86 and x64 editions of Windows XP and later. Installable client does not require pre-installation of any software packages. Installable client is available for download from your web portal.

² At the time this revision is being written, Server 2008 R2 support is in the final testing stage.

6. From farm **Properties** select **Web Access** tab to change/configure web server's SSL certificate [or add an exception to your web browser] and/or access published items using RDP files.
7. Open a web browser and point it to <https://HOSTNAME> to confirm that published applications are visible from the web portal.
8. Click on any published application and open it using Remote Desktop Connection. In case of a problem, see whether step 3 was performed correctly.
9. Restart the server host.
10. Download the installable client from the login page of the web portal. Installable client comes with built-in client-side extensions for printing, audio acceleration twain scanner redirection and more, as well as support for single sign-on.
11. Start the client and create/test your first connection. You should see a list of resources available to you.
12. Double-click a published item to test the application publishing feature.
13. Open a new full screen session and confirm that printing works.
14. Test printing from with a published application.
15. Start a new full desktop session and open Windows® Sound recorder [The executable name is sndrec32.exe. May not be present on Windows® Server 2003 in the default Windows® setup. On Windows® XP this application is installed by default. Add the needed Windows® component using Add/Remove Programs control, if necessary or copy the executable from Windows® XP] and confirm that your microphone works
16. Right-click server node **Properties** and enable IP virtualization.
17. From the **Properties** dialog of the farm [root] configure IP virtualization.
18. Test IP virtualization. Please remember that when both Virtual IP [IP from a predefined range] and Client IP options are selected, Client IP option will be ignored.

The following steps are necessary to get the Elusiva Terminal Server Enterprise up and running in a load-balanced farm configuration:

1. Install **Member Server** component on each server designated to participate in hosting remote desktop sessions
2. Install **Load Balancer** on one server
3. Install **Web Portal** component on [at least] one server
4. Open **Enterprise Management Console** and right-click Servers node to add your member servers to the managed group
5. Right-click the farm [tree root] node and select **Properties**
6. Open **Advanced** tab and edit **Hostname** as necessary. **Hostname** should be set to the name [IP address] of the server. Installer sets to the Windows of name of the server. If server name is not a fully qualified DNS name [such as example.elusiva.com] you will need to change this parameter to a fully qualified name so that your machine can be accessed from WAN using web portal and/or RDP files. [Elusiva standalone client will work regardless.] In some situations server cannot be accessed by the same name from LAN and WAN. This issue can be resolved using various approaches including a “hard-coded” entry in LAN

DNS table and/or local table [on Windows® XP/Server 2003 this information is stored in hosts file located under System32/drivers/etc].

7. Right-click **Published Items** node to Applications, Desktops and Documents
8. From farm **Properties** select **Web Access** tab to change/configure web server's SSL certificate [or add an exception to your web browser] and/or access published items using RDP files.
9. Open a web browser and point it to <https://HOSTNAME> to confirm that published applications are visible from the web portal.
10. Click on any published application and open it using Remote Desktop Connection. In case of a problem, see whether step 3 was performed correctly
11. Restart each member server.
12. Download the installable client from the login page of the web portal. Installable client comes with built-in client-side extensions for printing, audio acceleration twain scanner redirection and more, as well as support for single sign-on.
13. Start the client and create/test your first connection. You should see a list of resources available to you.
14. Double-click a published item to test the application publishing feature.
15. Open a new full screen session and confirm that printing works.
16. Test printing from with a published application.
17. Start a new full desktop session and open Windows® Sound recorder [The executable name is sndrec32.exe. May not be present on Windows® Server 2003 in the default Windows® setup. On Windows® XP this application is installed by default. Add the needed Windows® component using Add/Remove Programs control, if necessary or copy the executable from Windows® XP] and confirm that your microphone works
18. Right-click server node **Properties** and enable IP virtualization for each server.
19. From the **Properties** dialog of the farm [root] configure IP virtualization.
20. Test IP virtualization. Please remember that when both Virtual IP [IP from a predefined range] and Client IP options are selected, Client IP option will be ignored.
19. Configure an existing session directory service on any of the servers on your network or install session directory service from SETUP binary.
20. Use **Properties** dialog of each member server to join application servers with session directory so that disconnected sessions are properly resumed every time.