

Windows 2003 Terminal Server Course

Aims

The aim of this course is to enable the delegate to install, set-up, tune and maintain servers and clients running Windows 2003 Terminal Services. Delegates will also be able to carry out system administration and install and set-up applications.

Duration

2 Days

Course Prerequisites

Delegates should have an understanding of the Windows 2000 or 2003 server and active directory. Some knowledge of TCP/IP networking would also be advantageous.

Course Objectives

After this course delegates will be able to:-

- Describe the benefits of Terminal Services over basic Windows 2003 clients and the new features included in 2003 server
- State the hardware requirements for Terminal server and carry out basic capacity planning
- Install and configure a Windows 2003 Terminal Server.
- Customise the server for stability and performance in a terminal services role.
- Understand Terminal server and client licensing
- Use the terminal server administration tools
- Shadow users and control connection settings
- Use group policy and group policy loop-back mode processing to control access to terminal server clients
- Install and customise the Remote desktop client and the web based Active X client.
- Set-up and monitor Client and Server printing, use manual printer driver mappings and set-up a trusted printer driver directory
- Tune the Terminal server for maximum performance
- Set-up NLB load sharing for thin clients over multiple servers using the Terminal server session directory
- Install and set-up server applications for thin clients and use windows groups to distribute applications effectively

Course Topics

- Introduction to Windows 2003 Terminal Server
- New features and capabilities
- Installation considerations
- Server installation and set-up
- Setting registry keys for stability
- Thin client set-up
- Terminal server administration tools
- Groups and group policy
- Printing
- Installing applications
- Troubleshooting techniques and how to get help

Schedule

Day 1

Section 1

- Introduction to Windows 2003 Terminal Server
- Advantages of Terminal Server
- What's New in Terminal Services 2003
- New Client Features
- Client Deployment Options
- Server Features
- Improved Server Management
- Security Enhancements
- Session Directory
- Terminal Server Architecture
- Terminal Server Vs. Standard Server
- When to use a Terminal Server
- When to avoid using a Terminal Server

Section 2

- Installation best practices
- Minimum System Requirements for Terminal Server
- Licensing
- Application Compatibility Script Security Settings
- User Access Rights
- Colour Depth considerations
- Installing the Terminal Server Software
- Terminal Server Set-up
- Terminal Services Permissions
- Tuning the Server Service
- Performance Guidelines
- Tuning Page pools

Section 3

- RPD Clients
- Client-Side Features and Remote Desktop Protocol (RDP) v 5.2
- Advanced Client and Remote Administration
- Remote Desktop Web Connection
- Remote Desktops Administration Tool
- New Client-Side Display Features
- Server-Side Features
- Microsoft Thin Clients
- Installing Microsoft Clients
- The Advanced Active X Client
- RDP Logon Settings
- RDP Session Settings
- RDP Environment Settings
- Remote control settings
- RDP Client Settings

- RDP Network Adapter settings
- RDP Permissions
- Terminal Server Permissions
- Group Policy Settings

Day 2

Section 4

- Printing
- New Features
- Terminal Server Driver Enumeration
- Selecting your printer drivers
- Loading Printer Drivers
- Creating a printer driver mapping file
- Using the Print Migration Tool
- Controlling Client Printers
- Trouble-shooting Printer Problems
- Top Tips..

Section 5

- Network Load balancing
- Network Load Balancing Features
- Enabling NLB
- NLB Properties
- Host Parameters
- Setting up Port Rules
- Using the Network Load Balancing Monitor
- Session Directory
- "N" Tier Networking

Section 6

- Installing applications and server lockdown procedures
- Group Policy Loop back Processing
- Suggested User Settings
- Installing Applications
- Best practices procedure for installing applications
- Global Mode vs. User Specific Mode
- Application Program Considerations
- Troubleshooting
- Terminal Services Commands
- Licensing
- License Types and Scope
- Licensing Server Location
- Group Policy Licensing Settings

Section 7

- Trouble-shoot typical terminal server problems
- Running performance monitor, main area to look at
- Erratic spikes, pauses and hangs
- Runaway applications and stability problems
- Terminal Server Location placement
- Trouble-shooting Applications