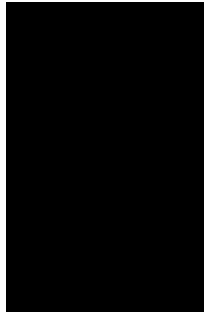




Administrator's Guide to VPNs and Remote Access

Third Edition



Introduction to VPN and Remote Access

Going beyond the buzz to understand VPN technology	1
Tunneling terms you should know when deploying a VPN	4
How to build a scalable VPN solution	7
Software VPN vs. hardware VPN	10
Site-to-site connectivity: MPLS vs. IPSec	12
VPN reliability and scalability	16
Ten things you should know about troubleshooting VPN connections	19
Protect your network from remote users: Make VPNs mandatory	23

Administering Windows Server VPNs

Configure a Windows Server 2003 VPN on the server side	25
Provide VPN services using Windows Server 2003	30
Fix the four biggest problems with VPN connections	36
Discover the new IPSec features in Windows Server 2003	41
Working with Windows Server 2003's IP Security Monitor	47
Configure a Windows 2000 VPN	57
Create a secure, persistent connection using Windows 2000 Server's RRAS	60
Optimal VPN server security and management	61
Optimize inbound client connections for your Windows 2000 VPN servers	66
VPN networking services built for speed	71
Factors that can boost VPN performance	77
Troubleshoot Windows RAS and VPN connections with these tips	81
Configure certificates for an L2TP/IPSec VPN	86
Customize the security of L2TP/IPSec connections	92

Troubleshooting L2TP/IPSec VPN connections in Win2K	97
Configure Windows NT to support VPN connections.....	101
Monitoring and troubleshooting VPN connections in WinNT	108

Administering ISA Server VPNs

Creating Secure Remote Access VPN Servers with ISA Server 2004.....	113
Creating site-to-site VPNs with ISA Server 2004.....	121
Create a gateway-to-gateway VPN with ISA Server 2000	128
Troubleshoot ISA Server VPN connections	132
Allowing VPN access to your network from a wireless DMZ.....	139

Administering Windows Client VPN Connections

Join a domain during Windows logon using a VPN client	147
Get connected to a Windows Server 2003 VPN in this step-by-step.....	149
How to configure Win2K client VPN connections	153
The Windows NT 4.0 PPTP VPN client connection guide	157
The Win9x VPN client connection guide	161
Secure legacy operating systems with Microsoft's L2TP/IPSec VPN client	165

SSL VPNs

Introduction to SSL VPNs	169
Implementation considerations for SSL VPN deployments.....	174
Troubleshooting SSL VPN deployments	181
Security considerations for SSL VPN deployments	187

Cisco Technologies

Fix 10 common Cisco VPN problems	197
Top 10 methods for securing Cisco VPNs	202
Configuring Cisco VPN	207
VPN services on a Cisco PIX firewall	211
Set up a PIX 501 firewall from scratch.....	216
Learn why NAT can cause VPN connection problems	222
Cisco administration 101: What you need to know about EIGRP	225
Understand the significance of administrative distance and metrics when working with routers	229

Routing and Remote Access

Configure Windows XP Professional to be a VPN server	233
Configure Windows XP Pro as a remote access server.....	237
Configuring IPSec on Windows 2000 Professional	245
Create an IPSec tunnel directly to a remote Windows server.....	252
The nuts and bolts of IPSec for securing your Windows clients	255
Roll out IPSec policies on your Windows machines	259
How to configure and troubleshoot PPPoE connections in Windows XP	261
Control access to your network with Network Access Quarantine Control	268
Using Windows Server 2003 as a router on your network	273
Managing Routing And Remote Access in Windows Server 2003	282
Using RIP on Windows Server 2003	287
Configuring ISA Server 2004 for Secure Remote Access to Microsoft Exchange	292
Introducing Windows 2000 Routing and Remote Access	298
Configuring Routing and Remote Access on your Windows 2000 server	305
Increasing Windows 2000 RRAS security	313
Using Windows 2000 Server as a router on your network	319
Using RIP on Windows 2000 Server	328
Using OSPF on Windows 2000 Server.....	333
Disable routing for incoming connections on a Windows 2000 remote access server	338
Track remote access with RRAS logging in Windows 2000	339
Use SSH tunneling for secure B2B networking	340
Access terminal services remotely through a NAT firewall	345
Configuring SSL bridging on ISA Server 2004	348

Outlook Web Access

Configuring OWA in Exchange Server 2003.....	353
Avoid this OWA configuration gotcha	358
Safeguard your Exchange 2003 front-end servers	359
Beware of firewall interference with OWA	361
Developing a secure Exchange 2003 organization	362
Troubleshoot '503 Service Unavailable' errors in OWA	367
Investigate the 'HTTP 403 (Forbidden)' messages in OWA.....	368

Use OWA Admin to administer Outlook Web Access	369
Making data available to mobile users.....	370
Understanding Exchange 2000 Server's Outlook Web Access.....	376
Enable Web access of Exchange accounts using Outlook Web Access.....	382
Enhance Exchange 2000 OWA using front-end servers	388
Fix constant installer problems when using OWA on machines with Office 2000	392

This Title Is Online Extras Enabled!

To help you better understand and overcome technology challenges, this book includes exclusive Online Extras available only to TechRepublic Press readers of this title. With the purchase of this book you also receive access to the Administrator's Guide to VPNs and Remote Access Online Extras Web site. There, you'll find a host of additional resources—including timesaving templates and downloads—covering VPNs and other remote-access issues.

Visit the Administrator's Guide to VPNs and Remote Access Online Extras site and begin leveraging its proven tools and resources, which have been hand-selected by our editors. The Online Extras files are updated regularly to ensure that you have instant access to the most relevant information you need, so visit the site often.

TechRepublic Press readers can recommend resources they'd like added to the Online Extras site. Forward your suggestions, as well as any comments on this book, to TechRepublic Press Executive Editor Erik Eckel (techrepublic-press@techrepublic.com).

