



ScreenOS Cookbook: Time-Saving Techniques for ScreenOS Administrators

By Stefan Brunner, Vik Davar, Joe Kelly, Ken Draper, David Delcourt, Sunil Wadhwa

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Administrators By Stefan Brunner, Vik Davar, Joe Kelly, Ken Draper, David Delcourt, Sunil Wadhwa

Written by key members of Juniper Network's ScreenOS development team, this one-of-a-kind Cookbook helps you troubleshoot secure networks that run ScreenOS firewall appliances. Scores of recipes address a wide range of security issues, provide step-by-step solutions, and include discussions of why the recipes work, so you can easily set up and keep ScreenOS systems on track.

ScreenOS Cookbook gives you real-world fixes, techniques, and configurations that save time -- not hypothetical situations out of a textbook. The book comes directly from the experience of engineers who have seen and fixed every conceivable ScreenOS network topology, from small branch office firewalls to appliances for large core enterprise and government, to the heavy duty protocol driven service provider network. Its easy-to-follow format enables you to find the topic and specific recipe you need right away and match it to your network and security issue.

Topics include:

- Configuring and managing ScreenOS firewalls
- NTP (Network Time Protocol)
- Interfaces, Zones, and Virtual Routers
- Mitigating Denial of Service Attacks
- DDNS, DNS, and DHCP
- IP Routing
- Policy-Based Routing
- Elements of Policies
- Authentication
- Application Layer Gateway (SIP, H323, RPC, RTSP, etc..)
- Content Security
- Managing Firewall Policies
- IPSEC VPN

- RIP, OSPF, BGP, and NSRP
- Multicast -- IGMP, PIM, Static Mroutes
- Wireless

Along with the usage and troubleshooting recipes, you will also find plenty of tricks, special considerations, ramifications, and general discussions of interesting tangents and network extrapolation. For the accurate, hard-nosed information you require to get your ScreenOS firewall network secure and operating smoothly, no book matches *ScreenOS Cookbook*.

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Editorial Review

About the Author

Stefan Brunner has been a technology consultant for more than 15 years, helping enterprises to leverage technology for their business model and deploy technology solutions. Stefan is the lead architect in Juniper Networks' Service Layer Technology Professional Services group. Prior to Juniper, Stefan worked with NetScreen Technologies as a network security consultant. Stefan holds an MBA in innovation research and technology management from Ludwig-Maximilians-University of Munich, and a certificate degree in telecommunications engineering from the University of California at Berkeley. He lives with his wife and daughter in the Hill Country of Austin, Texas.

Vik Davar has been working in the IT field for more than 15 years, holding positions in financial services firms and technology companies including Juniper Networks and Goldman Sachs. Vik is the president of 9 Networks, an IT services company. He has a master's degree in electrical engineering from Columbia University and a bachelor's degree in electrical engineering from The Cooper Union in New York City. He is also a CISSP and CCIE# 8377. He lives in New Jersey with his wife and two children.

David Delcourt has worked in the data communications industry for the past 13 years for enterprise equipment vendors including Cabletron Systems and NetScreen Technologies. He has held a variety of positions, including advanced TAC engineer, technical trainer, and product manager at Cabletron Systems, and senior security consultant at NetScreen Technologies. He is currently the security practice manager in Professional Services for Juniper Networks, supporting the Americas. He lives in New Hampshire with his wife and daughter, and their two dogs and two cats.

Ken Draper has spent the past 20 years in the networking industry, and has focused on security solutions for the past 11 years. He is CISSP certification #22627 and holds numerous other certifications. Ken has worked at such networking equipment manufacturers as Infotron, Gandalf, Synoptics, Bay Networks, Nortel, NetScreen, and now Juniper Networks. He has more than six years of experience with ScreenOS and large-scale security solutions, he has held a variety of technical engineering positions including systems engineer and solutions architect, and he is currently a Juniper Networks consulting engineer specializing in the large-scale virtual private network (VPN), firewall, intrusion prevention, and centralized management markets. Ken lives outside Dallas with his wife and two dogs.

Joe Kelly has been involved in data networking for more than 12 years, focusing on the realms of network security and routing. He started his career in the service provider space at IDT Corporation, where he held roles in network operations and engineering. After IDT, he spent time with various network service providers in engineering and architectural capacities. In 2001, Joe joined NetScreen Technologies as a senior systems engineer in the Financial and Service Provider verticals, where he specialized in high-availability, high-performance networks. Joe joined Juniper Networks in 2004 with the acquisition of NetScreen, and he is currently the technical lead on the Global Banking and Finance team. He lives in New Jersey with his beautiful wife, Jacqueline, and his three children, Hannah, Ben, and Tristan.

Sunil Wadhwa has been in the data networking industry for more than 13 years, focusing on systems, network routing, and security in enterprise and service provider organizations. He started his career in India at GTL Limited and SAP India, and then held a variety of roles in technical support, network operations, and engineering. He moved to the United States and worked with E4E as a network consultant for routing and security, and then joined Juniper Networks as an advanced technical support engineer for firewall/VPN products. He currently leads the Advanced Technical Support team for Juniper Networks, supporting enhanced services products. He lives in California with his beautiful wife, Lavanya, and little angel daughter, Sneha.

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