

Juniper JNCIA Security



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JunOS Security Overview

1. Junos security architecture
2. Branch vs. high-end platforms
3. Major hardware components of SRX Series services gateways
4. Packet flow
5. Packet-based vs. session-based forwarding

Zones

1. Zone types
2. Dependencies
3. Host inbound packet behavior
4. Screens
5. Transit packet behavior
6. Zone configuration steps
7. Hierarchy priority (Inheritance)
8. Screens
9. Monitoring and troubleshooting

Security Policies

1. Policy types
2. Policy components
3. Policy ordering
4. Host inbound traffic examination
5. Transit traffic examination
6. Scheduling
7. Rematching
8. ALGs
9. Address books
10. Applications
11. Policies
12. ALGs
13. Address books
14. Custom applications
15. Monitoring and troubleshooting



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NAT

1. NAT types
2. NAT/PAT processing
3. DNS Doctoring
4. Cone NAT
5. IPv4 to IPv6
6. Address persistence
7. NAT proxy ARP
8. NAT configuration steps
9. Monitoring and troubleshooting

IPSec VPN

1. Secure VPN characteristics and components
2. IPSec tunnel establishment
3. IPSec traffic processing
4. Group VPN
5. ADVPN
6. PKI
7. Dynamic VPN
8. Junos OS IPsec implementation options
9. IPSec VPN configuration steps
10. Monitoring and troubleshooting

Virtual SRX

1. Installation
2. Clustering with vSRX
3. Deployment scenarios
4. Troubleshooting



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Routing Policy and Firewall Filters

1. HA features and characteristics
2. Deployment requirements and considerations
3. Chassis cluster characteristics and operation
4. Cluster modes
5. Cluster and node IDs
6. Redundancy groups
7. Cluster interfaces
8. Real-time objects
9. State synchronization
10. Ethernet switching considerations
11. IPSec considerations
12. Manual failover
13. Cluster preparation
14. Cluster configuration steps
15. Monitoring and troubleshooting



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