

Quick Installation Guide NCP Client with Juniper Junos

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NCP Client with Juniper Junos



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- exact product name
- serial number
- version number
- an accurate description of your problem
- any error message(s)

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1. Revision History

This document outlines the configuration of a Junos based Juniper VPN gateway and the NCP VPN client.

Junos Version	NCP Client Version	Date
10.0R3.10	9.22 Build 63	2010-06-23
10.1R1.8		2010-08-18
		2010-09-08
		2010-10-20
10.4R1.9	9.23 Build 64	2011-01-14
11.1R2.3	9.24 Build 65	2011-05-13

Network Diagram

The following simple network is used for testing. The Test Server runs on Windows Server 2008 R2 Enterprise. It runs a Web Server (IIS 7) as well as Network Policy and Access Service, which provides for RADIUS authentication.





2. Remote Access VPN with Xauth and Radius

In this example, the following configuration applies:

- ► Internal LAN interface fe-0/0/7
- ► Internal LAN interface ge-0/0/0 in zone you create a new group IKE ID user named"NCP Users". You configure it to accept up to 10 Phase 1 negotiations concurrently from VPN clients with preshared keys containing an IKE ID ending with the string juniper.net. The seed value for the preshared key is Tunneling123. You name the dialup IKE user group Office.



Radius Configuration





In order for the IP address to be passed to the client it is important to define the Framed-IP-Netmask RADIUS attribute as shown here.

3. Juniper Gateway CLI

Interfaces

set interfaces ge-0/0/0 unit 0 family inet address 10.20.10.210/16 set interfaces fe-0/0/7 unit 0 family inet address 192.168.66.1/24

Security Zones

set security zones security-zone trust interfaces fe-0/0/7.0 set security zones security-zone untrust interfaces ge-0/0/0.0

Host-inbound Services

set security zones security-zone trust host-inbound-traffic system-services all set security zones security-zone untrust host-inbound-traffic system-services ike set security zones security-zone untrust host-inbound-traffic system-services ssh set security zones security-zone untrust host-inbound-traffic system-services ping

Address book

set security zones security-zone trust address-book address local-net 192.168.66.0/24

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Access Profiles

set access profile xauth-users authentication-order radius set access profile xauth-users session-options client-idle-timeout 180 set access profile xauth-users radius-server 192.168.66.10 port 1812 set access profile xauth-users radius-server 192.168.66.10 secret "secret"

IKE Proposals

set security ike proposal PSK-AES128-SHA1-DH2 authentication-method pre-shared-keys set security ike proposal PSK-AES128-SHA1-DH2 dh-group group2 set security ike proposal PSK-AES128-SHA1-DH2 authentication-algorithm sha1 set security ike proposal PSK-AES128-SHA1-DH2 encryption-algorithm aes-128-cbc set security ike proposal PSK-AES128-SHA1-DH2 lifetime-seconds 28800 set security ike proposal PSK-AES256-SHA1-DH2 authentication-method pre-shared-keys set security ike proposal PSK-AES256-SHA1-DH2 dh-group group2 set security ike proposal PSK-AES256-SHA1-DH2 authentication-algorithm sha1 set security ike proposal PSK-AES256-SHA1-DH2 authentication-algorithm sha1 set security ike proposal PSK-AES256-SHA1-DH2 encryption-algorithm aes-256-cbc set security ike proposal PSK-AES256-SHA1-DH2 encryption-algorithm aes-256-cbc

IKE Policies

set security ike policy dialup-ike-policy mode aggressive set security ike policy dialup-ike-policy proposals PSK-AES128-SHA1-DH2 set security ike policy dialup-ike-policy pre-shared-key ascii-text "Tunneling123"

IKE Gateway (Phase 1) with dynamic peer as U-FQDN

set security ike gateway dialup-ike ike-policy dialup-ike-policy set security ike gateway dialup-ike dynamic user-at-hostname <u>user@juniper.net</u> set security ike gateway dialup-ike external-interface ge-0/0/0

Shared IKE User Limit and Xauth

set security ike gateway dialup-ike dynamic connections-limit 10 set security ike gateway dialup-ike dynamic ike-user-type shared-ike-id set security ike gateway dialup-ike xauth access-profile xauth-users

IPsec Proposals

set security ipsec proposal ESP-AES128-SHA protocol esp set security ipsec proposal ESP-AES128-SHA authentication-algorithm hmac-sha1-96 set security ipsec proposal ESP-AES128-SHA encryption-algorithm aes-128-cbc set security ipsec proposal ESP-AES128-SHA lifetime-seconds 28800 set security ipsec proposal ESP-AES256-SHA protocol esp set security ipsec proposal ESP-AES256-SHA authentication-algorithm hmac-sha1-96 set security ipsec proposal ESP-AES256-SHA encryption-algorithm aes-256-cbc set security ipsec proposal ESP-AES256-SHA encryption-algorithm aes-256-cbc set security ipsec proposal ESP-AES256-SHA lifetime-seconds 28800



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IPsec Policies

set security ipsec policy dialup-ipsec-policy perfect-forward-secrecy keys group2 set security ipsec policy dialup-ipsec-policy proposals ESP-AES128-SHA

IPsec VPN with IKE Gateway and IPsec Policy

set security ipsec vpn dialup-vpn ike gateway dialup-ike set security ipsec vpn dialup-vpn ike ipsec-policy dialup-ipsec-policy set security ipsec vpn dialup-vpn establish-tunnels on-traffic

IPsec VPN Security Policy for incoming Tunnel Traffic

edit security policies from-zone untrust to-zone trust ## [edit security policies from-zone untrust to-zone trust] set policy dialup-unt-tr match source-address any set policy dialup-unt-tr match destination-address local-net set policy dialup-unt-tr match application any set policy dialup-unt-tr then permit tunnel ipsec-vpn dialup-vpn exit

Security Policy for Internet Traffic

edit security policies from-zone trust to-zone untrust ## [edit security policies from-zone trust to-zone untrust] set policy any-permit match source-address any set policy any-permit match destination-address any set policy any-permit match application any set policy any-permit then permit source-nat interface exit

TCP-MSS to eliminate fragmentation of TCP traffic across Tunnel

set security flow tcp-mss ipsec-vpn mss 1350

Save and commit configuration

commit



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4. NCP Client Wizard:

4.1. Connection Type

Configuration > Profiles > Add/Import Link to Corporate Network Using IPsec: (select)

> Next



4.2.	Profile	Name

Configuration Profile Name: Juniper Junos VPN

> Next

4.3. VPN Gateway Parameters

Gateway (Tunnel Endpoint): 10.20.10.210 Extended Authentication (XAUTH): (select)

USEIID.	vpriuseri
Password:	Password12
Password (confirm):	Password12

> Next

New Profile Wizard			×
Profile Name Enter the profile name of the connection			NCP
The connection may be given a descriptive name	ie. Enter a name i	in the following fi	eld.
Profile N <u>a</u> me: Juniper Junos VPN			
	< Back	Next >	Cancel





X

-

<u>C</u>ancel

NCP

•

<u>C</u>ancel

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4.4. Exchange Mode

Exchange Mode: PFS Group:

aggressive mode DH-Group 2

> Next

IPsec Configuration Configure the basic IPsec parameters NC7 The basic IPsec parameters can be specified here. The IPsec negotiations will use "automatic mode" which are pre-defined (default) proposals. In the event that uniquely defined IKE-/ IPsec policies are to be used, these can then be defined and assigned using the policy editor under IPsec General Settings. Exchange Mode: aggressive mode •

< <u>B</u>ack

<u>N</u>ext >

<u>N</u>ext >

PFS Group: DH-Group 2 (1024 Bit

w Profile Wizard

New Profile Wizard

4.5. Pre-shared Key

Shared Secret: Confirm Secret: Local Identity (IKE): ID:

Tunneling123 Tunneling123 Fully Qualified Userna user@juniper.net

> Next

	Pre-sh Commor	ared Key n Secret for Da	ta Encryption		NC
ame	A sharei identica Enter th	d secret or pre- Ily configured o e appropriate v	shared key is used to encry n both sides (VPN client an alue for the IKE ID accordir	pt the connection. This then needs d VPN gateway). Ig to the selected ID type.	to be
	Ŗ	Pre-shared Ko <u>S</u> hared Secre	ey	C <u>o</u> nfirm Secret:	
		******	(1/2)	*********	
	8	Local Identity	Fully Qualified Username		
		<u>I</u> D:	user@juniper.net		

4.6. IPsec Configuration: IP Addresses

IP Address Assignment: Local IP Address

> Next > OK

ew Profil	e Wizard 🛛 🕹				
IPsec Assignir	Configuration - IP Addresses ng the IP address to the client				
Specify which IP address the client is going to use. By selecting "Use IKE Config Mode" the client's IP address is dynamically assigned by the VPN gateway.					
Furthern	nore, define where the DNS / WINS servers (if used) can be found.				
	IP Address Assignment				
<u>20</u> 6	Local IP Address				
	IP Address:				
	0.0.0.0				
	DNS / WINS Servers				
	DNS Server: WINS Server:				
	0.0.0.0				
	< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel				

< <u>B</u>ack



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Edit the Profile to specify specific Profile > Juniper Junos VPN > Edit



Line Management: Inactivity Timeout: set to 0

IPsec General Settings: Policy Editor Edit and/or Add the appropriate policies as needed



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Select the configured policies from the IKE Policy and IPsec Policy drop-down menu

Advanced IPsec Options: Disable DPD (Dead Peer Detection) Enable this option by marking the checkbox

enter the VPN network address: 192.168.66.0

Split Tunneling:

/ 255.255.255.0

In Remote Networks





Select OK and close all the windows.

Click the connection button to establish the VPN gateway connection.

🚦 Log Book		_ 🗆 X		
6/7/2010 10:48:28 AM	IPSec: Phase1 is Ready - IkeIndex=21,AlRekey=1	-		
6/7/2010 10:48:28 AM	IkeXauth: RECV_XAUTH_REQUEST		NCP Secure Client - Junip	er Edition
6/7/2010 10:48:28 AM	IkeXauth: XMIT_XAUTH_REPLY		onnection Configuration	Log View Help
6/7/2010 10:48:29 AM	IkeKauth: RECV_XAUTH_SET		rofile:	Connection
6/7/2010 10:48:29 AM	IkeKauth: XMIT_XAUTH_ACK		uniner Junor VPN	
6/7/2010 10:48:29 AM	IkeCfg: name (Juniper > - IkeXauth: enter state open		anper our los in m	
6/7/2010 10:48:29 AM	SUCCESS: Ike Extended Authentication is ready			
6/7/2010 10:48:29 AM	IPSec: Quick Mode is Ready: IkeIndex = 00000015 , VpnSrcPort = 500		- 57	LIDPER
6/7/2010 10:48:29 AM	IPSec: Assigned IP Address: 10.20.10.111			Joint die
6/7/2010 10:48:29 AM	IkeCig: RECV_IKECFG_SET - Juniper Junos VPN		Connection	established.
6/7/2010 10:48:29 AM	IkeCfg: XMIT_IKECFG_ACK - Juniper Junos VPN			- P
6/7/2010 10:48:29 AM	IkeCfg: name (Juniper > - IkeXauth: enter state open			
6/7/2010 10:48:29 AM	SUCCESS: Ike Extended Authentication is ready			NCO
6/7/2010 10:48:29 AM	IPSec: Quick Mode is Ready: IkeIndex = 00000015 , VpnSrcPort = 500			
6/7/2010 10:48:29 AM	IPSec: Assigned IP Address: 192.168.66.101		tatistics:	
6/7/2010 10:48:30 AM	IkeQuick: XMIT_MSG1_QUICK - Juniper Junos VPN		ata (Tx) in Byte: 0	Time online: 00:00:18
6/7/2010 10:48:30 AM	IkeQuick: XMIT_MSG1_QUICK - Juniper Junos VPN		ata (Rx) in Byte: 0	Timeout (sec): 0 sec
6/7/2010 10:48:30 AM	IkeQuick: RECV_MSG2_QUICK - Juniper Junos VPN		peed (KByte/s): 0,000	Encryption: AES 128
6/7/2010 10:48:30 AM	IkeQuick: Turning on PFS mode(Juniper Junos VPN) with group 2		thware not yet activated	
6/7/2010 10:48:30 AM	IkeQuick: XMIT_MSG3_QUICK - Juniper Junos VPN		alid for another 69 days)	Activation
6/7/2010 10:48:30 AM	IkeQuick: phase2:name(Juniper Junos VPN) - connected			
6/7/2010 10:48:30 AM	SUCCESS: Ike phase 2 (quick mode) ready			
6/7/2010 10:48:30 AM	IPSec: Created an IPSEC SA with the following characteristics -			
6/7/2010 10:48:30 AM	IpSrcRange=[10.20.10.111+10.20.10.111].lpDstRange=[192.168.66.0+192.168.66.255].lpProt=0.Src	Por		
6/7/2010 10:48:30 AM	IPSec: connected: LifeDuration in Seconds = 20160 and in KiloBytes = 0			
6/7/2010 10:48:30 AM	IPSec: Connected to Juniper Junos VPN on channel 1.			
6/7/2010 10:48:30 AM	PPP(lpcp): connected to Juniper Junos VPN with IP Address: 192.168.66.101			
6/7/2010 10:48:30 AM	SUCCESS: IpSec connection ready			
6/7/2010 10:48:30 AM	IkeQuick: RECV_MSG2_QUICK - Juniper Junos VPN			
6/7/2010 10:48:30 AM	IkeQuick: Turning on PFS mode(Juniper Junos VPN) with group 2			
6/7/2010 10:48:30 AM	IkeQuick: XMIT_MSG3_QUICK - Juniper Junce VPN			
6/7/2010 10:48:30 AM	IkeQuick: phase2:name(Juniper Junos VPN) - connected			
6/7/2010 10:48:30 AM	SUCCESS: Ike phase 2 (quick mode) ready			
6/7/2010 10:48:30 AM	IPSec: Created an IPSEC SA with the following characteristics -			
6/7/2010 10:48:30 AM	lpSrcRange=[192.168.66.101-192.168.66.101].lpDstRange=[192.168.66.0-192.168.66.255].lpProt=	0,S		
6/7/2010 10:48:30 AM	IPSec: connected: LifeDuration in Seconds = 20160 and in KiloBytes = 0			
6/7/2010 10:48:33 AM	SUCCESS: Link +> (Juniper Junos VPN) IP address assigned to IP stack - link is operational.			
1		-		
Clear Screen Cre	ate File Help C	lose		

5. Remote Access VPN with Xauth and Active Directory

The following configuration is used for Active Directory configuration.

On the Juniper SRX gateway you need to configure the LDAP Server and options:

```
access {
  profile xauth-users {
     authentication-order Idap;
}
  Idap-options {
     base-distinguished-name cn=users,dc=vpnaccess,dc=local;
     search {
        search-filter sAMAccountName=;
        admin-search {
          distinguished-name cn=Administrator,cn=Users,dc=vpnaccess,dc=local;
          password "$9$VebgaZGi.fzDiORSeXxDikgmTz369tu"; ## SECRET-DATA
        }
     }
  }
  Idap-server {
     192.168.66.11;
```



6. Multiple Subnets

If multiple subnets are referenced in the same policy, the proxy-ids 0.0.0/0 are used for both local and remote!

```
Apr 20 11:13:47 matched configured proxy ids: re-
mote=ipv4_subnet(any:0,[0..7]=0.0.0.0/0) lo-
cal=ipv4_subnet(any:0,[0..7]=0.0.0.0/0) in vpn: INSTANCE-vpn ncp_0002_0005_0000.
```

You will need to create multiple policies for this situation. Also you will need to configure as many VPN entries under ipsec and refer to the same gateway, as the same VPN cannot be used in multiple security policies.

```
Wrong:

policy tr-utr-ncp { match { source-address [ LAN-ONE LAN-TWO LAN-THREE ];

## Cannot have multiple subnets

destination-address any; application any; } then { permit { tunnel { ipsec-vpn vpn-ncp; }

} } }
```

7. Troubleshooting

The following section provides a few troubleshooting tips.

7.1. Verifying Firewall User Authentication

The following section provides information on how to display the firewall authentication user history.

To provide higher level of debug information, traceoptions can be used in the firewall authentication:

firewall-authentication { traceoptions { flag { all <detail | extensive | terse>; authentication <detail | extensive | terse>; proxy <detail | extensive | terse>;

Use the show security firewall-authentication CLI command to display information on authenticated firewall users. For more information, see the *JUNOS Software CLI Reference*.

```
user@host# show security firewall-authentication history
```

```
History of firewall authentication data: Authentications: 2 Id Source Ip Date
Time Duration Status User 1 99.99.99.1 2007-10-12 21:24:02 0:00:24 Failed troy 2
99.99.99.1 2007-10-12 21:24:48 0:00:22 Success voyager user@host> show security
firewall-authentication history identifier 1 Username: troy Source IP: 99.99.99.1
Authentication state: Failed Authentication method: Pass-through using Telnet
Access start date: 2007-10-12 Access start time: 21:24:02 Duration of user ac-
cess: 0:00:24 Policy name: lnx2-telnet-lnx1 Source zone: dl2 Destination zone:
```



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dll Access profile: wonder Bytes sent by this user: 0 Bytes received by this user: 2660 Client-groups: Sunnyvale Bangalore user@host> show security firewallauthentication users Firewall authentication data: Total users in table: 1 Id Source Ip Src zone Dst zone Profile Age Status User 3 99.99.99.1 dl2 dl1 wonder 1 Failed TechPubs user@host> show security firewall-authentication users identifier 3 Username: TechPubs Source IP: 99.99.99.1 Authentication state: Failed Authentication method: Pass-through using Telnet Age: 1 Access time remaining: 9 Source zone: dl2 Destination zone: dl1 Policy name: lnx2-telnet-lnx1 Access profile: wonder Interface Name: ge-0/0/1.0 Bytes sent by this user: 0 Bytes received by this user: 1521

What it Means

The output displays information about firewall users authenticating to the network. Verify the following information:

- > Number of firewall users who successfully authenticated and firewall users who failed to log in.
- > Details on each firewall user trying to authenticate.

7.2. Traceoptions (Flow)

Syntax

traceoptions {

file filename <files number > <match regular-expression > <size maximum-file-size > <world-readable | no-world-readable>; flag flag ;

}

Hierarchy Level

[edit security flow]

Release Information

Statement introduced in Release 8.5 of JUNOS software.

Description

Configure flow tracing options. This statement is supported on J-series and SRX-series devices.

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7.3. **Traceoptions (IKE)**

Syntax

```
traceoptions {
       file filename {
       <files number >;
       <match regular-expression >;
       <size maximum-file-size >;
       <world-readable | no-world-readable>;
       }
       flag flag;
```

}

Hierarchy Level

[edit security ike]

7.4. Traceoptions (IPsec)

Syntax

}

```
traceoptions {
       flag {
       all;
       next-hop-tunnel-binding;
       packet-drops;
       packet-processing;
       security-associations;
       }
```

Hierarchy Level

[edit security ipsec]

7.5. **Traceoptions General**

set system processes general-authentication-service traceoptions flag all i.e. for authd /var/log/authd set security firewall-authentication traceoptions flag all i.e. for fwauthd /var/log/fwauthd



8. Table 1: IPsec Services Operational Mode Commands

Task	Command
Adaptive Services Interface	
Delete certificate authority (CA) digital certificates from the router.	clear security pki ca-certificate
Delete manually generated local digital certificate requests from the router.	clear security pki certificate-request
Delete all CRLs from the router.	<u>clear security pki cri</u>
lic/private key pairs from the router.	<u>clear security pki local-certificate</u>
Delete local and remote certificates from the IPsec configuration memory cache.	clear services ipsec-vpn certificates
Clear IPsec statistics.	clear services ipsec-vpn ipsec statistics
Clear either Internet Key Exchange (IKE) or IPsec VPN security associations.	clear services ipsec-vpn ike security- associations clear services ipsec-vpn ipsec security- associations
Request a digital certificate from a CA online by using the Simple Certificate Enrollment Protocol (SCEP).	request security pki ca-certificate enroll
Manually load a CA digital certificate from a specified location.	request security pki ca-certificate load
Manually install a CRL on the router.	request security pki crl load
Manually generate a local digital certificate request in the Public-Key Cryptog- raphy Standards #10 (PKCS-10) format.	request security pki generate- certificate-request
Generate a Public Key Infrastructure (PKI) public and private key pair for a local digital certificate.	request security pki generate-key-pair
Request a CA to enroll and install a local digital certificate online by using the SCEP.	request security pki local-certificate enroll
Manually load a local digital certificate from a specified location.	request security pki local-certificate load
Switch between the primary and backup IPsec VPN tunnels.	request services ipsec-vpn ipsec switch tunnel
Display information about certificate authority (CA) digital certificates installed in the router.	show security pki ca-certificate
Display information about manually generated local digital certificate requests that are stored in the router.	show security pki certificate-request
Display information about the local digital certificates and the corresponding public keys installed in the router.	show security pki local-certificate
Display local and remote certificates installed in the IPsec configuration memory cache that are used for the IKE negotiation.	show services ipsec-vpn certificates
Display IKE VPN security associations for service sets.	show services ipsec-vpn ike security- associations
Display IPsec VPN security associations for service sets.	show services ipsec-vpn ipsec securi- ty-associations
Display IPsec VPN statistics for service sets.	show services ipsec-vpn ipsec statistics
Encryption Interface	
Clear Internet Key Exchange (IKE) security associations.	clear ike security-associations
Clear IPsec security associations.	clear ipsec security-associations
Switch between primary and backup interfaces and tunnels.	request ipsec switch
Obtain a public key certificate from a certification authority.	request security certificate (signed) request security certificate (unsigned)
Generate a public and private key pair.	request security key-pair
Add a certificate provided by the Juniper Networks certificate authority.	request system certificate add



Display IKE security association information.	show ike security-associations
Display the IPsec certificate database.	show ipsec certificates
Display primary and backup interface and tunnel information.	show ipsec redundancy
Display IPsec security association information.	show ipsec security-associations
Display installed certificates signed by the Juniper Networks certificate authority.	show system certificate

References

- 1. JUNOS Enhanced Services, Remote Access VPN with XAuth,
- Configuration and Troubleshooting Version 1.4, Richard Kim, Technical Support Engineer, Advanced JTACConfiguring Dynamic VPN, Version 1.2, November 2009
- 3. JUNOS® Software CLI Reference
- 4. IP Security Operational Mode Commands, http://www.juniper.net/techpubs/en_US/junos10.4/topics/reference/general/ip-security-op-cmd-table.html

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