How to configure the IPSec backup on DSR series

The firmware version later than 1.06B62, DSR-500, 1000 series start to support IPSec backup.

Test Topology:

PC1------(lan)DSR1(wan1)------(P1)Router(P3)------(wan1)DSR2(lan)------PC2
(wan2)------(P2) (P4)------(wan2)

DSR1 info
Lan IP:192.168.10.1/24
Wan1 IP:1.1.1.1/24, Gateway:1.1.1.254/24
Wan2 IP:2.2.2.1/24, Gateway:2.2.2.254/24

DSR2 info
Lan IP:192.168.20.1/24
Wan1 IP:3.3.3.1/24, Gateway:3.3.3.254/24
Wan2 IP:4.4.4.1/24, Gateway:4.4.4.254/24

Router info
P1:1.1.1.254/24, P2:2.2.2.254/24,
P3:3.3.3.254/24, P4:4.4.4.254/24

PC1:192.168.10.100/24, Gateway:192.168.10.1
PC2:192.168.20.100/24, Gateway:192.168.20.1

Setup Procedure:
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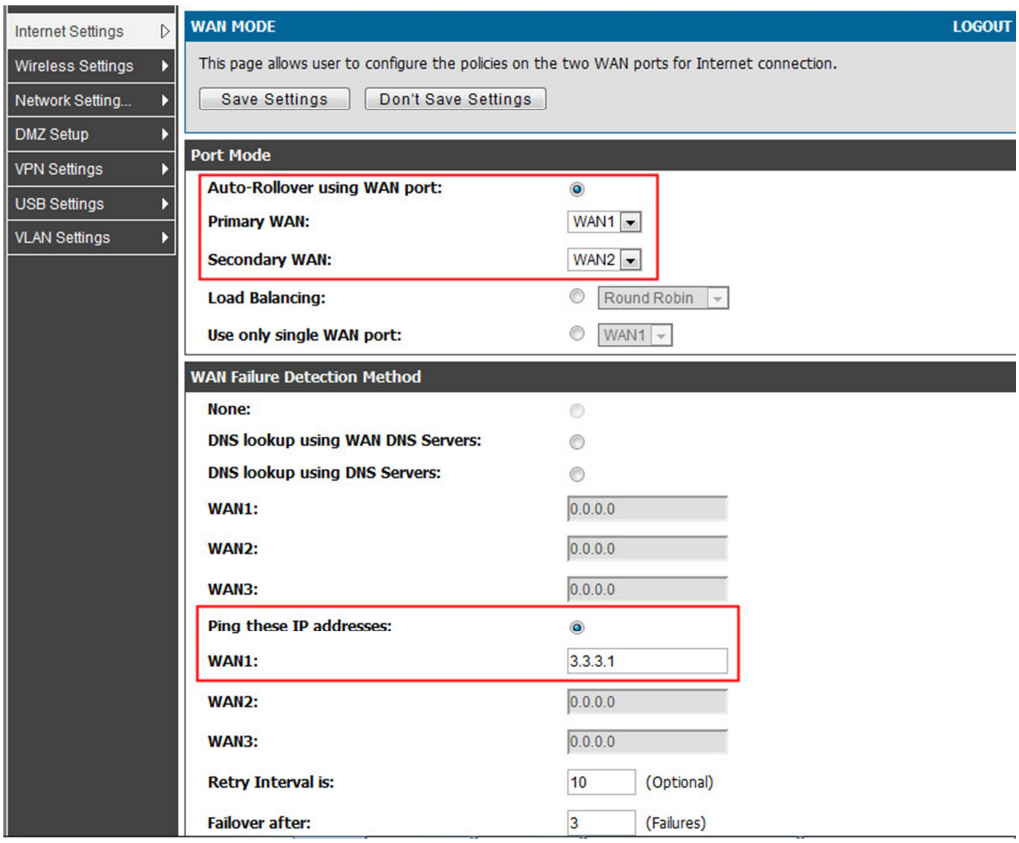
DSR1 Setting

1. Configure the IP address on DSR1 as above info
2. Configure the Port mode as Auto-Rollover
   SETUP/Internet Settings/WAN MODE



3. Add a IPSec policy : ipsec-1 as below

   Policy Name:**ipsec-1**

   Select Local Gateway:**Dedicated WAN**

   Remote Endpoint:IP Address, **3.3.3.1**

   Local IP:Subnet

   Local start IP Address:192.168.10.0

   Local Subnet Mask:255.255.255.0

   Remote IP:Subnet

   Remote Start IP Address:192.168.20.0

   Remote Subnet Mask:255.255.255.0

   Phase1

   Encryption Algorithm:AES-128

   Authentication Algorithm:SHA-1

   Authentication method:Pre-shared key

   Pre-shared key:dlink12345

   Enable Dead Peer Detection

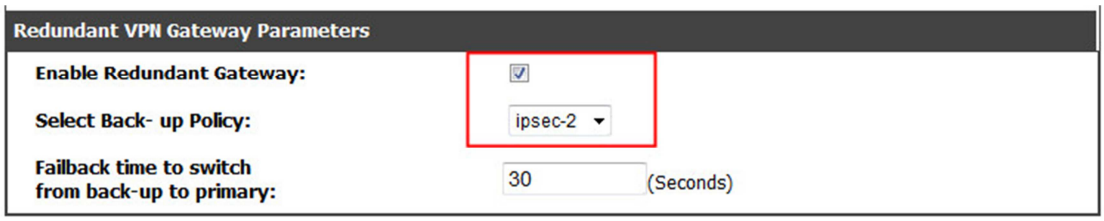
   Phase2

   Encryption Algorithm:AES-128

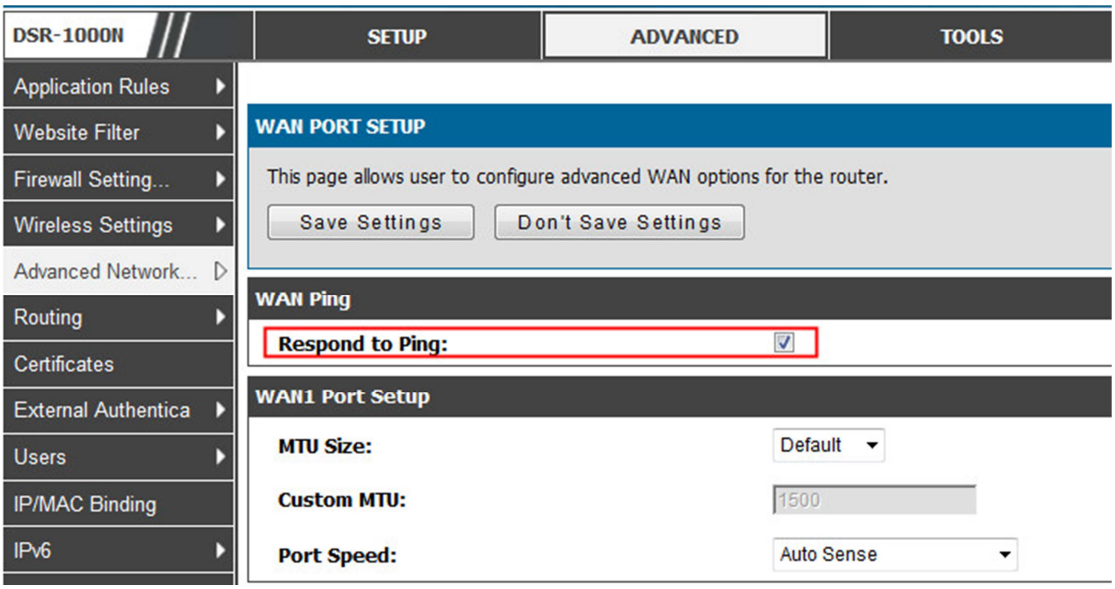
   Authentication Algorithm:SHA-1

4. Add a IPSec policy : ipsec-2 as below
   Policy Name:**ipsec-2**
   Select Local Gateway:**Configurable WAN**
   Remote Endpoint:IP Address, **4.4.4.1**
   Local IP:Subnet
   Local start IP Address:192.168.10.0
   Local Subnet Mask:255.255.255.0
   Remote IP:Subnet
   Remote Start IP Address:192.168.20.0
   Remote Subnet Mask:255.255.255.0
   Phase1
   Encryption Algorithm:AES-128
   Authentication Algorithm:SHA-1
   Authentication method:Pre-shared key
   Pre-shared key:dlink12345
   Enable Dead Peer Detection
   Phase2
   Encryption Algorithm:AES-128
   Authentication Algorithm:SHA-1

5. Back to configure the IPSec policy:ipsec-1,
   Enable Redundant Gateway, and select “ipsec-2”

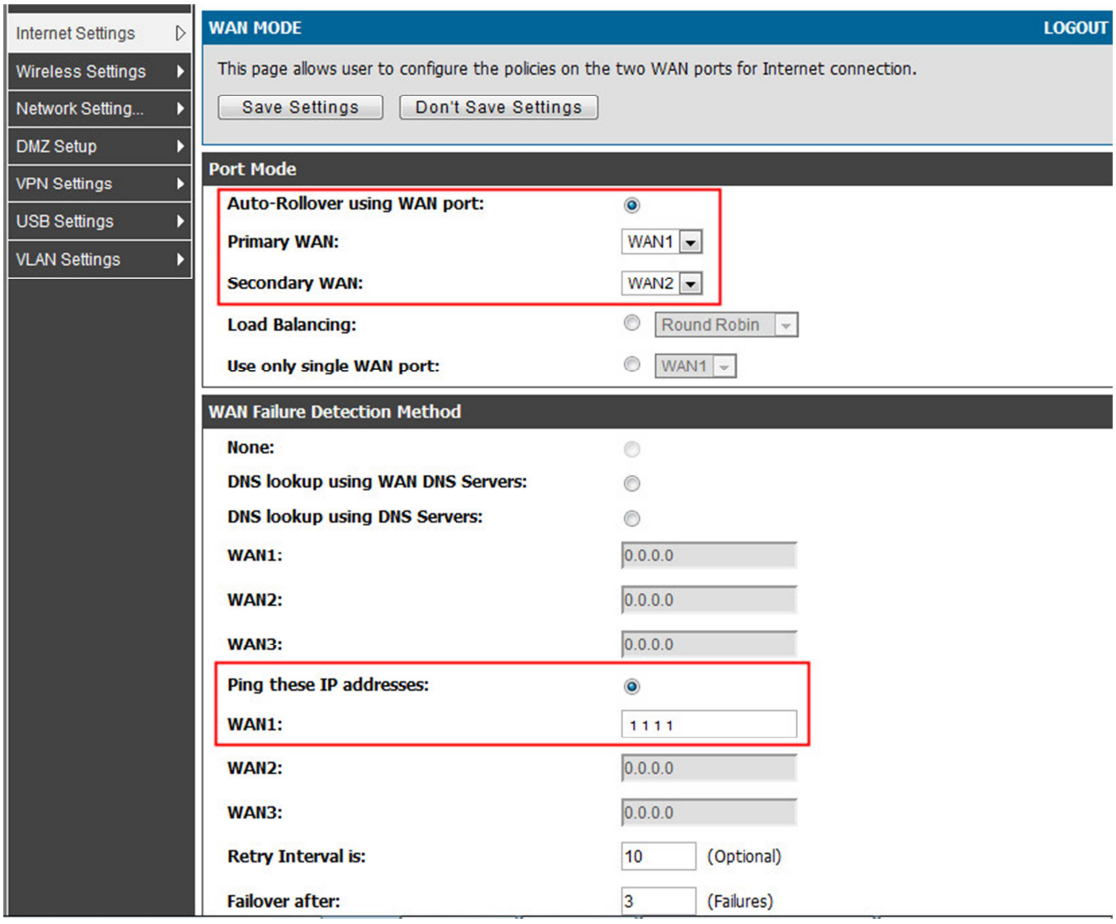


6. Enable WAN interface respond to ping
   ADVANCED/Advanced network/WAN Port Setup



DSR2 Setting

1. Configure the IP address on DSR2 as previous info
2. Configure the Port mode as Auto-Rollover
   SETUP/Internet Settings/WAN MODE



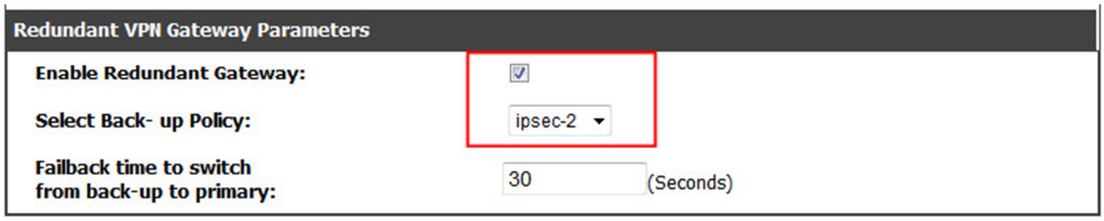
3. Add a IPSec policy : ipsec-1 as below
   Policy Name:**ipsec-1**
   Select Local Gateway:**Dedicated WAN**
   Remote Endpoint:IP Address, **1.1.1.1**
   Local IP:Subnet
   Local start IP Address:192.168.20.0
   Local Subnet Mask:255.255.255.0
   Remote IP:Subnet
   Remote Start IP Address:192.168.10.0
   Remote Subnet Mask:255.255.255.0
   Phase1
   Encryption Algorithm:AES-128
   Authentication Algorithm:SHA-1
   Authentication method:Pre-shared key
   Pre-shared key:dlink12345
   Enable Dead Peer Detection
   Phase2
   Encryption Algorithm:AES-128
   Authentication Algorithm:SHA-1

4. Add a IPSec policy : ipsec-2 as below
   Policy Name:**ipsec-2**
   Select Local Gateway:**Configurable WAN**
   Remote Endpoint:IP Address, **2.2.2.1**
   Local IP:Subnet
   Local start IP Address:192.168.20.0
   Local Subnet Mask:255.255.255.0
   Remote IP:Subnet
   Remote Start IP Address:192.168.10.0
   Remote Subnet Mask:255.255.255.0
   Phase1
   Encryption Algorithm:AES-128
   Authentication Algorithm:SHA-1
   Authentication method:Pre-shared key
   Pre-shared key:dlink12345
   Enable Dead Peer Detection
   Phase2

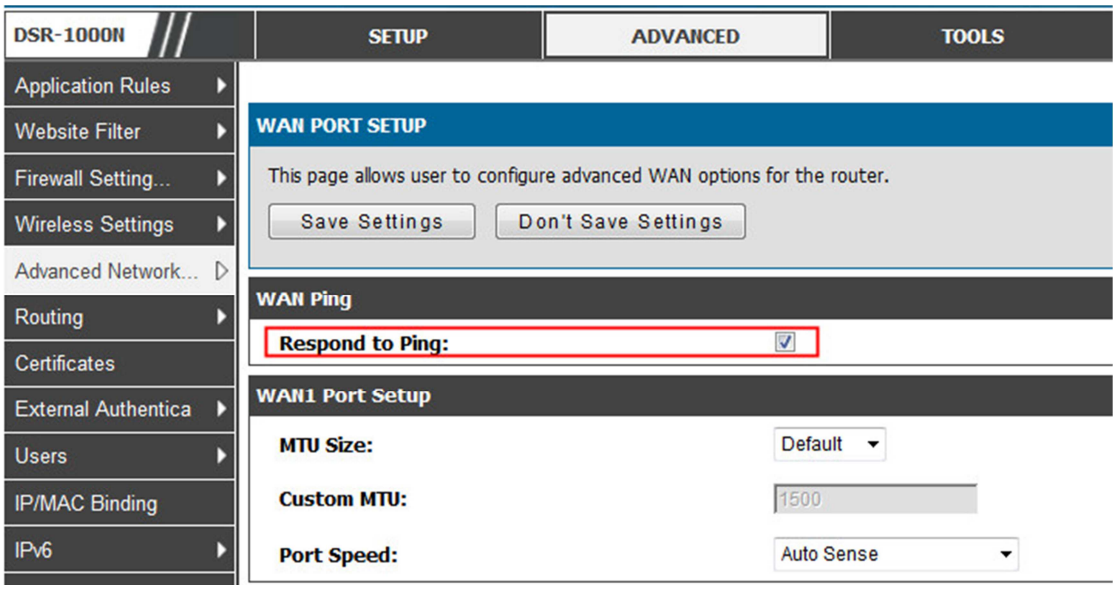
Encryption Algorithm:AES-128

Authentication Algorithm:SHA-1

5. Back to configure the IPSec policy:ipsec-1,
   Enable Redundant Gateway, and select “ipsec-2”



6. Enable WAN interface respond to ping
   ADVANCED/Advanced network/WAN Port Setup



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