

Router1

3des-md5

access-list 100 permit ip 192.168.1.1 0.0.0.255 192.168.2.2 0.0.0.255

crypto isakmp enable

crypto isakmp policy 10

authentication pre-share

encryption 3des

hash md5

group 5

lifetime 3600

exit

crypto isakmp key 0 2244 address 25.0.0.2

crypto ipsec transform-set NASIR_SET esp-md5-hmac esp-3des

exit

crypto ipsec security-association lifetime seconds 3590

crypto map CRMAP 10 ipsec-isakmp

match address 100

set peer 25.0.0.2

set transform-set NASIR_SET

exit

int s1/0

crypto map CRMAP

exit

exit

wr

wr

3des-sha

access-list 100 permit ip 192.168.1.1 0.0.0.255 192.168.2.2 0.0.0.255

crypto isakmp enable

crypto isakmp policy 10

authentication pre-share

encryption 3des

hash sha

group 5

lifetime 3600

exit

crypto isakmp key 0 2244 address 25.0.0.2

crypto ipsec transform-set NASIR_SET esp-sha-hmac esp-3des

exit

crypto ipsec security-association lifetime seconds 3590

crypto map CRMAP 10 ipsec-isakmp

match address 100

set peer 25.0.0.2

set transform-set NASIR_SET

exit

int s1/0

crypto map CRMAP

exit

exit

wr

wr

des-md5

```
access-list 100 permit ip 192.168.1.1 0.0.0.255 192.168.2.2 0.0.0.255
```

```
crypto isakmp enable
```

```
crypto isakmp policy 10
```

```
authentication pre-share
```

```
encryption des
```

```
hash md5
```

```
group 5
```

```
lifetime 3600
```

```
exit
```

```
crypto isakmp key 0 2244 address 25.0.0.2
```

```
crypto ipsec transform-set NASIR_SET esp-md5-hmac esp-des
```

```
exit
```

```
crypto ipsec security-association lifetime seconds 3590
```

```
crypto map CRMAP 10 ipsec-isakmp
```

```
match address 100
```

```
set peer 25.0.0.2
```

```
set transform-set NASIR_SET
```

```
exit
```

```
int s1/0
```

```
crypto map CRMAP
```

```
exit
```

```
exit
```

```
wr
```

wr

AES -MD5

```
access-list 101 permit ip 192.168.1.1 0.0.0.255 192.168.2.2 0.0.0.255
```

```
crypto isakmp enable
```

```
crypto isakmp policy 11
```

```
authentication pre-share
```

```
encryption aes 256
```

```
hash md5
```

```
group 5
```

```
lifetime 3600
```

```
exit
```

```
crypto isakmp key asdfg address 25.0.0.2
```

```
crypto ipsec transform-set NASIR_SET esp-aes 256 ah-md5-hmac
```

```
exit
```

```
crypto ipsec security-association lifetime seconds 3590
```

```
crypto map CRMAP 11 ipsec-isakmp
```

```
match address 101
```

```
set peer 25.0.0.2
```

```
set transform-set NASIR_SET
```

exit

int s1/0

crypto map CRMAP

exit

exit

wr

wr

aes-sha

access-list 100 permit ip 192.168.1.1 0.0.0.255 192.168.2.2 0.0.0.255

crypto isakmp enable

crypto isakmp policy 10

authentication pre-share

encryption aes 256

hash sha

group 5

lifetime 3600

exit

crypto isakmp key 0 2244 address 25.0.0.2

crypto ipsec transform-set NASIR_SET esp-aes 256 ah-sha-hmac

exit

crypto ipsec security-association lifetime seconds 3590

crypto map CRMAP 10 ipsec-isakmp

match address 100

set peer 25.0.0.2

set transform-set NASIR_SET

exit

int s1/0

crypto map CRMAP

exit

exit

wr

wr

des-sha

access-list 100 permit ip 192.168.1.1 0.0.0.255 192.168.2.2 0.0.0.255

crypto isakmp enable

crypto isakmp policy 10

authentication pre-share

encryption des

hash sha

group 5

lifetime 3600

exit

crypto isakmp key 0 2244 address 25.0.0.2

crypto ipsec transform-set NASIR_SET esp-sha-hmac esp-des

exit

crypto ipsec security-association lifetime seconds 3590

crypto map CRMAP 10 ipsec-isakmp

```
match address 100

set peer 25.0.0.2

set transform-set NASIR_SET

exit

int s1/0

crypto map CRMAP

exit

exit

wr

wr
```

Router2

3des-md5

```
access-list 100 permit ip 192.168.2.2 0.0.0.255 192.168.1.1 0.0.0.255

crypto isakmp enable

crypto isakmp policy 10

authentication pre-share

encryption 3des

hash md5

group 5

lifetime 3600

exit

crypto isakmp key 0 2244 address 15.0.0.1

crypto ipsec transform-set NASIR_SET esp-md5-hmac esp-3des

exit

crypto ipsec security-association lifetime seconds 3590
```

crypto map CRMAP 10 ipsec-isakmp

match address 100

set peer 15.0.0.1

set transform-set NASIR_SET

exit

int s1/1

crypto map CRMAP

exit

exit

wr

wr

3des-sha

access-list 100 permit ip 192.168.2.2 0.0.0.255 192.168.1.1 0.0.0.255

crypto isakmp enable

crypto isakmp policy 10

authentication pre-share

encryption 3des

hash sha

group 5

lifetime 3600

exit

crypto isakmp key 0 2244 address 15.0.0.1

crypto ipsec transform-set NASIR_SET esp-sha-hmac esp-3des

exit

crypto ipsec security-association lifetime seconds 3590

crypto map CRMAP 10 ipsec-isakmp

match address 100

set peer 15.0.0.1

set transform-set NASIR_SET

exit

int s1/1

crypto map CRMAP

exit

exit

wr

wr

Des-md5

access-list 100 permit ip 192.168.2.2 0.0.0.255 192.168.1.1 0.0.0.255

crypto isakmp enable

crypto isakmp policy 10

authentication pre-share

encryption des

hash md5

group 5

lifetime 3600

exit

crypto isakmp key 0 2244 address 15.0.0.1

crypto ipsec transform-set NASIR_SET esp-md5-hmac esp-des

exit

crypto ipsec security-association lifetime seconds 3590

crypto map CRMAP 10 ipsec-isakmp

match address 100

set peer 15.0.0.1

set transform-set NASIR_SET

exit

int s1/1

crypto map CRMAP

exit

exit

wr

wr

Aes-md5

access-list 101 permit ip 192.168.2.2 0.0.0.255 192.168.1.1 0.0.0.255

crypto isakmp enable

crypto isakmp policy 11

authentication pre-share

encryption aes 256

hash md5

group 5

lifetime 3600

exit

crypto isakmp key asdfg address 15.0.0.1

crypto ipsec transform-set NASIR_SET esp-aes 256 ah-md5-hmac

exit

crypto ipsec security-association lifetime seconds 3590

crypto map CRMAP 11 ipsec-isakmp

```
match address 101

set peer 15.0.0.1

set transform-set NASIR_SET

exit

int s1/1

crypto map CRMAP

exit

exit

wr

wr
```

Aes-sha

```
access-list 100 permit ip 192.168.2.2 0.0.0.255 192.168.1.1 0.0.0.255

crypto isakmp enable

crypto isakmp policy 10

authentication pre-share

encryption aes 256

hash sha

group 5

lifetime 3600

exit

crypto isakmp key 0 2244 address 15.0.0.1

crypto ipsec transform-set NASIR_SET esp-aes 256 esp-sha-hmac

exit

crypto ipsec security-association lifetime seconds 3590

crypto map CRMAP 10 ipsec-isakmp

match address 100

set peer 15.0.0.1

set transform-set NASIR_SET
```

exit

int s1/1

crypto map CRMAP

exit

exit

wr

wr

Des-sha

access-list 100 permit ip 192.168.2.2 0.0.0.255 192.168.1.1 0.0.0.255

crypto isakmp enable

crypto isakmp policy 10

authentication pre-share

encryption des

hash sha

group 5

lifetime 3600

exit

crypto isakmp key 0 2244 address 15.0.0.1

crypto ipsec transform-set NASIR_SET esp-sha-hmac esp-des

exit

crypto ipsec security-association lifetime seconds 3590

crypto map CRMAP 10 ipsec-isakmp

```
match address 100

set peer 15.0.0.1

set transform-set NASIR_SET

exit

int s1/1

crypto map CRMAP

exit

exit

wr

wr
```

```
#####
#####
3#####
```

GRE routing protocol

Router1

```
int tunnel 12

tunnel source 15.0.0.1

tunnel destination 25.0.0.2

ip address 10.0.12.1 255.255.255.0

exit

router eigrp 100

no auto-summary

network 192.168.1.0
```

```
network 10.0.0.0
```

```
exit
```

```
end
```

ROUTER2

```
int tunnel 12
```

```
tunnel source 25.0.0.2
```

```
tunnel destination 15.0.0.1
```

```
ip address 10.0.12.2 255.255.255.0
```

```
exit
```

```
router eigrp 100
```

```
no auto-summary
```

```
network 192.168.2.0
```

network 10.0.0.0

exit

end

| | | | |
|-------------------------|-------------------------|-------------------------|-------------------------|
| <u>3DES-MD5</u> | <u>3DES-SHA</u> | <u>AES-MD5</u> | <u>AES-SHA</u> |
| <u>IPSEC</u> | <u>IPSEC</u> | <u>IPSEC</u> | <u>IPSEC</u> |
| 78.628 KBPS | 70.564 KBPS | 46.0 KBPS | 39.619 KBPS |
| <u>IPSEC/GRE</u> | <u>IPSEC/GRE</u> | <u>IPSEC/GRE</u> | <u>IPSEC/GRE</u> |
| 59.789 KBPS | 68.848 KBPS | 32.0 KBPS | 35.51 KBPS |
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