

对ASDM的ASA访问从在VPN隧道配置示例的一个内部接口

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简介

本文描述如何配置有使用的一个LAN到LAN VPN隧道两思科可适应安全工具(ASA)防火墙。Cisco Adaptive Security Device Manager (ASDM)运作对远程ASA通过在公共侧的外部接口和此加密正常网络和ASDM流量。ASDM是设计为了帮助您设置，配置和监控您的与GUI的ASA防火墙的基于浏览器的配置工具。您不需要ASA防火墙CLI的广泛的知识。

[先决条件](#)

[要求](#)

Cisco 建议您了解以下主题：

- IPsec加密
- 思科ASDM

注意：保证在您的拓扑方面使用的所有设备符合在[Cisco ASA 5500系列硬件安装指南](#)描述的要求。

提示：参考[IP安全](#) Cisco条款为了获取与基本IPsec加密的熟悉。

使用的组件

本文档中的信息基于以下软件和硬件版本：

- Cisco ASA防火墙软件版本9.x。
- ASA-1和ASA-2是思科ASA防火墙5520
- ASA 2用途ASDM版本7.2(1)

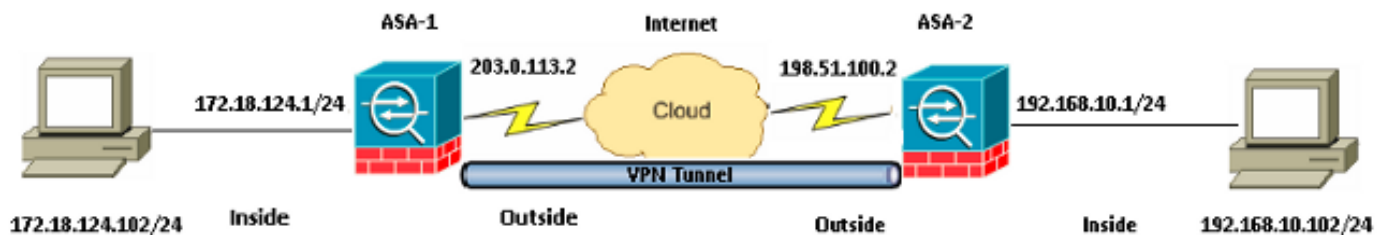
注意：当提示对于ASDM的时一个用户名和密码，默认设置不要求用户名。如果特权密码以前配置，请输入该密码作为ASDM密码。如果没有特权密码，请留下两张用户名和密码报名表并且点击OK键继续为了。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

配置

请使用在此部分描述为了配置功能在本文描述的信息。

网络图



配置

这是在ASA-1使用的配置：

ASA-1

```
ASA Version 9.1(5)
!
hostname ASA-1
!
interface GigabitEthernet0/0
nameif outside
security-level 0
ip address 203.0.113.2 255.255.255.0
!
interface GigabitEthernet0/1
nameif inside
security-level 100
ip address 172.18.124.1 255.255.255.0
!

!--- Traffic matching ACL 101 is punted to VPN
!--- Encrypt/Decrypt traffic matching ACL 101

access-list 101 extended permit ip 172.18.124.0 255.255.255.0 192.168.10.0
255.255.255.0
```

```

!--- Do not use NAT
!--- on traffic matching below Identity NAT

object network obj_192.168.10.0
subnet 192.168.10.0 255.255.255.0

object network obj_172.18.124.0
subnet 172.18.124.0 255.255.255.0

nat (inside,outside) source static obj_172.18.124.0 obj_172.18.124.0 destination
static obj_192.168.10.0 obj_192.168.10.0 no-proxy-arp route-lookup

!--- Configures a default route towards the gateway router.

route outside 0.0.0.0 0.0.0.0 203.0.113.252 1

!--- Point the configuration to the appropriate version of ASDM in flash

asdm image asdm-722.bin

!--- Enable the HTTP server required to run ASDM.

http server enable

!--- This is the interface name and IP address of the host or
!--- network that initiates the HTTP connection.

http 172.18.124.102 255.255.255.255 inside

!--- Implicitly permit any packet that came from an IPsec
!--- tunnel and bypass the checking of an associated access-group
!--- command statement for IPsec connections.

sysopt connection permit-vpn

!--- Specify IPsec (phase 2) transform set.
!--- Specify IPsec (phase 2) attributes.

crypto ipsec ikev1 transform-set vpn esp-3des esp-md5-hmac
crypto ipsec security-association pmtu-aging infinite
crypto map vpn 10 match address 101
crypto map vpn 10 set peer 198.51.100.2
crypto map vpn 10 set ikev1 transform-set vpn
crypto map vpn interface outside

!--- Specify ISAKMP (phase 1) attributes.

crypto ikev1 enable outside
crypto ikev1 policy 10
authentication pre-share
encryption 3des
hash sha
group 2
lifetime 86400

!--- Specify tunnel-group ipsec attributes.

tunnel-group 198.51.100.2 type ipsec-l2l
tunnel-group 198.51.100.2 ipsec-attributes
ikev1 pre-shared-key cisco

```

这是在ASA-2使用的配置：

ASA-2

```
ASA Version 9.1(5)
!
hostname ASA-2
!
interface GigabitEthernet0/0
nameif outside
security-level 0
ip address 198.51.100.2 255.255.255.0
!
interface GigabitEthernet0/1
nameif inside
security-level 100
ip address 192.168.10.1 255.255.255.0
!

!--- Traffic matching ACL 101 is punted to VPN
!--- Encrypt/Decrypt traffic matching ACL 101

access-list 101 extended permit ip 192.168.10.0 255.255.255.0 172.18.124.0
255.255.255.0

!--- Do not use NAT
!--- on traffic matching below Identity NAT

object network obj_192.168.10.0
subnet 192.168.10.0 255.255.255.0

object network obj_172.18.124.0
subnet 172.18.124.0 255.255.255.0

nat (inside,outside) source static obj_192.168.10.0 obj_192.168.10.0 destination
static obj_172.18.124.0 obj_172.18.124.0 no-proxy-arp route-lookup

!--- Configures a default route towards the gateway router.

route outside 0.0.0.0 0.0.0.0 198.51.100.252 1

!--- Point the configuration to the appropriate version of ASDM in flash

asdm image asdm-722.bin

!--- Enable the HTTP server required to run ASDM.

http server enable

!--- This is the interface name and IP address of the host or
!--- network that initiates the HTTP connection.

http 192.168.10.102 255.255.255.255 inside

!--- Add an additional 'http' configuration to allow the remote subnet
!--- to access ASDM over the VPN tunnel

http 172.18.124.0 255.255.255.0 outside

!--- Implicitly permit any packet that came from an IPsec
!--- tunnel and bypass the checking of an associated access-group
!--- command statement for IPsec connections.

sysopt connection permit-vpn

!--- Specify IPsec (phase 2) transform set.
```

!--- Specify IPsec (phase 2) attributes.

```
crypto ipsec ikev1 transform-set vpn esp-3des esp-md5-hmac
crypto ipsec security-association pmtu-aging infinite
crypto map vpn 10 match address 101
crypto map vpn 10 set peer 203.0.113.2
crypto map vpn 10 set ikev1 transform-set vpn
crypto map vpn interface outside
```

!--- Specify ISAKMP (phase 1) attributes.

```
crypto ikev1 enable outside
crypto ikev1 policy 10
authentication pre-share
encryption 3des
hash sha
group 2
lifetime 86400
```

!--- Specify tunnel-group ipsec attributes.

```
tunnel-group 203.0.113.2 type ipsec-l2l
tunnel-group 203.0.113.2 ipsec-attributes
ikev1 pre-shared-key cisco
```

在VPN通道间的访问ASDM/SSH

为了通过ASA-2内部接口从ASA-1网络内部的访问ASDM，您必须使用描述此处的命令。此命令可能只用于一个接口。在ASA-2，请配置 [管理访问用管理访问里面](#) 命令：

```
management-access <interface-name>
```

验证

此部分提供您能使用为了验证的信息您的配置适当地工作。

注意：确定 [Cisco CLI分析器](#) (仅限注册用户) 支持 **显示** 命令。请使用Cisco CLI分析器为了查看 **show** 命令输出分析。

请使用这些命令为了验证您的配置：

- 输入 **show crypto isakmp sa/show isakmp sa** 命令为了验证阶段1正确地设立。
- 输入 **show crypto ipsec sa** 为了验证第2阶段正确地设立。

命令汇总

一旦VPN命令被输入到ASA，VPN通道设立，当流量通过在ASDM PC (172.18.124.102) 和内部接口ASA-2之间(192.168.10.1)。这时，ASDM PC能到达 <https://192.168.10.1> 和通信与ASA-2 ASDM接口在VPN通道的。

故障排除

此部分提供您能使用为了排除故障您的配置的信息。

注意：参考[ASA连接问题对Cisco Adaptive Security Device Manager](#) Cisco条款为了排除故障 ASDM相关问题。

调试输出示例

输入**show crypto isakmp sa**命令为了查看形成在198.51.100.2和203.0.113.2之间的通道：

```
ASA-2(config)# show crypto isakmp sa
```

```
IKEv1 SAs:
```

```
Active SA: 1
```

```
Rekey SA: 0 (A tunnel will report 1 Active and 1 Rekey SA during rekey)
```

```
Total IKE SA: 1
```

```
1 IKE Peer: 203.0.113.2
```

```
Type      : L2L           Role       : initiator
```

```
Rekey     : no           State      : MM_ACTIVE
```

输入**show crypto ipsec sa**命令为了查看通过流量在192.168.10.0 255.255.255.0和172.18.124.0 255.255.255.0之间的通道。

```
ASA-2(config)# show crypto ipsec sa
```

```
interface: outside
```

```
Crypto map tag: vpn, seq num: 10, local addr: 198.51.100.2
```

```
access-list 101 extended permit ip 192.168.10.0 255.255.255.0
```

```
172.18.124.0 255.255.255.0
```

```
local ident (addr/mask/prot/port): (192.168.10.0/255.255.255.0/0/0)
```

```
remote ident (addr/mask/prot/port): (172.18.124.0/255.255.255.0/0/0)
```

```
current_peer: 203.0.113.2
```

```
#pkts encaps: 5, #pkts encrypt: 5, #pkts digest: 5
```

```
#pkts decaps: 5, #pkts decrypt: 5, #pkts verify: 5
```

```
#pkts compressed: 0, #pkts decompressed: 0
```

```
#pkts not compressed: 5, #pkts comp failed: 0, #pkts decomp failed: 0
```

```
#pre-frag successes: 0, #pre-frag failures: 0, #fragments created: 0
```

```
#PMTUs sent: 0, #PMTUs rcvd: 0, #decapsulated frgs needing reassembly: 0
```

```
#TFC rcvd: 0, #TFC sent: 0
```

```
#Valid ICMP Errors rcvd: 0, #Invalid ICMP Errors rcvd: 0
```

```
#send errors: 0, #recv errors: 0
```

```
local crypto endpt.: 198.51.100.2/0, remote crypto endpt.: 203.0.113.2/0
```

```
path mtu 1500, ipsec overhead 58(36), media mtu 1500
```

```
PMTU time remaining (sec): 0, DF policy: copy-df
```

```
ICMP error validation: disabled, TFC packets: disabled
```

```
current outbound spi: DDE6AD22
```

```
current inbound spi : 92425FE5
```

```
inbound esp sas:
```

```
spi: 0x92425FE5 (2453823461)
```

```
transform: esp-3des esp-md5-hmac no compression
```

```
in use settings = {L2L, Tunnel, IKEv1, }
```

```
slot: 0, conn_id: 28672, crypto-map: vpn
```

```
sa timing: remaining key lifetime (kB/sec): (4373999/28658)
```

```
IV size: 8 bytes
```

```
replay detection support: Y
```

```
Anti replay bitmap:
```

```
0x00000000 0x0000003F
```

```
outbound esp sas:
```

```
spi: 0xDDE6AD22 (3722882338)
```

```
transform: esp-3des esp-md5-hmac no compression
in use settings ={L2L, Tunnel, IKEv1, }
slot: 0, conn_id: 28672, crypto-map: vpn
sa timing: remaining key lifetime (kB/sec): (4373999/28658)
IV size: 8 bytes
replay detection support: Y
Anti replay bitmap:
0x00000000 0x00000001
```

相关信息

- [Cisco ASA 命令参考](#)
- [技术支持和文档 - Cisco Systems](#)