ASA 8.3及更高版本：內部網路上的郵件(SMTP)伺服器訪問配置示例

目錄

簡介

此示例配置演示如何設定ASA安全裝置以訪問位於內部網路上的郵件(SMTP)伺服器。

請參閱ASA 8.3及更高版本：有關如何設定ASA安全裝置以訪問位於DMZ網路上的郵件/SMTP伺服器的詳細資訊，請參閱DMZ上的郵件(SMTP)伺服器訪問配置示例。

請參閱ASA 8.3及更高版本：外部網路上的郵件(SMTP)伺服器訪問配置示例，用於設定ASA安全裝置以訪問位於外部網路上的郵件/SMTP伺服器。

必要條件

需求

本文件沒有特定需求。

採用元件

本文中的資訊係根據以下軟體和硬體版本：

- 運行8.3及更高版本的思科自適應安全裝置(ASA)。
- 採用Cisco IOS®軟體版本12.4(20)T的Cisco 1841路由器

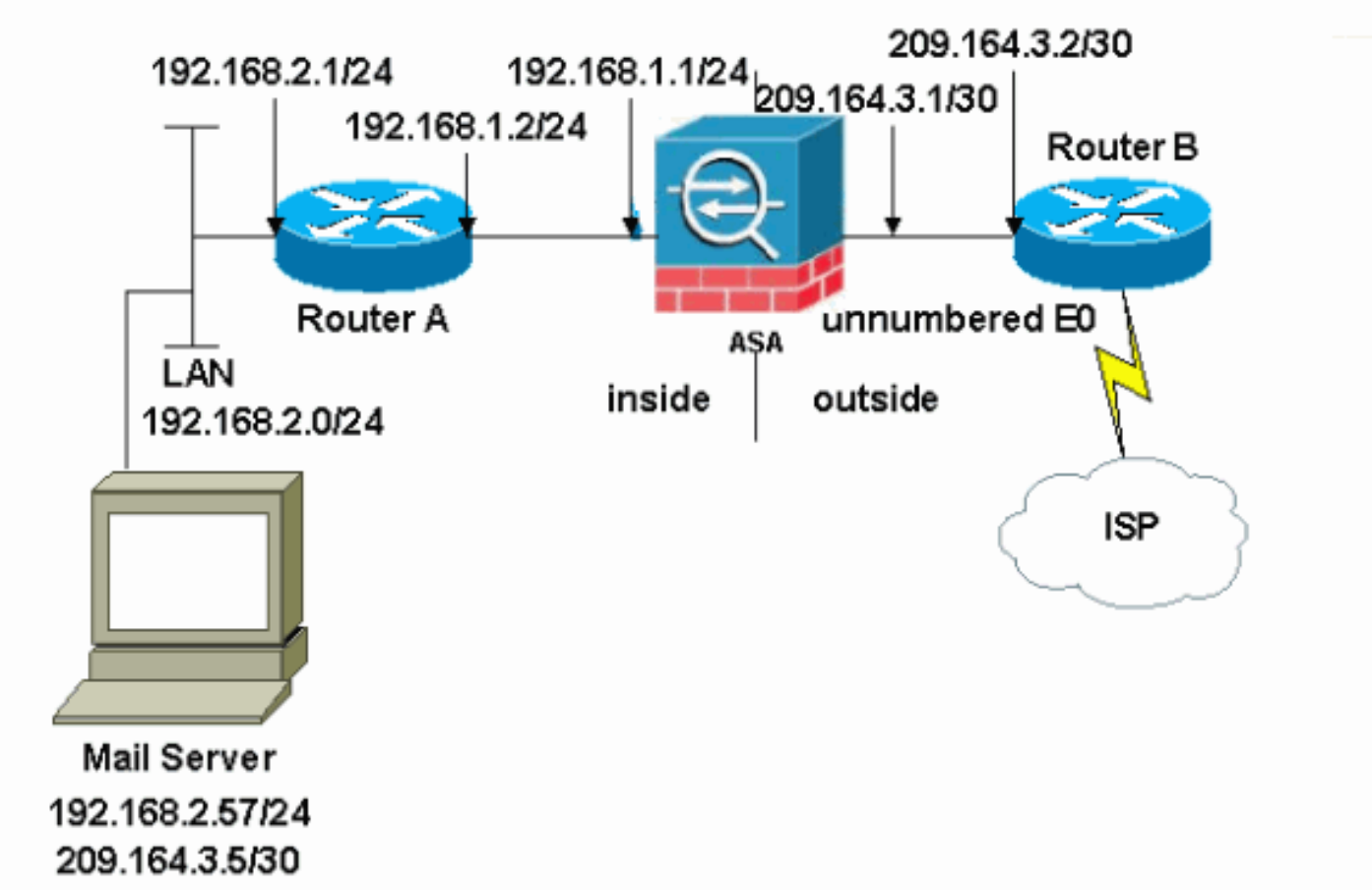
本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路正在作用，請確保您已瞭解任何指令可能造成的影響。

設定

本節提供用於設定本文件中所述功能的資訊。

網路圖表

本檔案會使用以下網路設定：



注意：此配置中使用的IP編址方案在Internet上不能合法路由。這些地址是在實驗室環境中使用的RFC 1918地址。

本示例中使用的網路設定包含具有內部網路(192.168.1.0/24)和外部網路(209.164.3.0/30)的ASA。IP地址為209.64.3.5的郵件伺服器位於內部網路中。

組態

本檔案會使用以下設定：

- ASA
- 路由器B

ASA

```
ASA#show run
: Saved
:
ASA Version 8.3(1)
!
hostname ASA
enable password 8Ry2YjIyt7RRXU24 encrypted
passwd 2KFQnbNIdI.2KYOU encrypted
```

```
names
!
interface Ethernet0
 shutdown
 no nameif
 no security-level
 no ip address
!
interface Ethernet1
 shutdown
 no nameif
 no security-level
 no ip address
!
interface Ethernet2
 shutdown
 no nameif
 no security-level
 no ip address
!
!--- Define the IP address for the inside interface. interface Ethernet3 nameif inside
 security-level 100
 ip address 192.168.1.1 255.255.255.0
!

!--- Define the IP address for the outside interface. interface Ethernet4 nameif outside
 security-level 0
 ip address 209.164.3.1 255.255.255.252
!
interface Ethernet5
 shutdown
 no nameif
 no security-level
 no ip address
!
passwd 2KFQnbNIdI.2KYOU encrypted
ftp mode passive


!--- Create an access list that permits Simple !--- Mail Transfer Protocol (SMTP) traffic from anywhere
to the host at 209.164.3.5 (our server). The name of this list is !--- smtp. Add additional lines to th
access list as required. !--- Note: There is one and only one access list allowed per !--- interface pe
direction, for example, inbound on the outside interface. !--- Because of limitation, any additional li
that need placement in !--- the access list need to be specified here. If the server !--- in question i
SMTP, replace the occurrences of SMTP with !--- www, DNS, POP3, or whatever else is required.


access-list smtp extended permit tcp any host 209.164.3.5 eq smtp

pager lines 24
mtu inside 1500
mtu outside 1500
no failover
no asdm history enable
arp timeout 14400

!--- Specify that any traffic that originates inside from the !--- 192.168.2.x network NATs (PAT) to
209.164.3.129 if !--- such traffic passes through the outside interface. object network obj-192.168.2.0
  subnet 192.168.2.0 255.255.255.0
  nat (inside,outside) dynamic 209.164.3.129

!--- Define a static translation between 192.168.2.57 on the inside and !--- 209.164.3.5 on the outside
These are the addresses to be used by !--- the server located inside the ASA. object network obj-192.16
  host 192.168.2.57
```

```
  nat (inside,outside) static 209.164.3.5

!--- Apply the access list named smtp inbound on the outside interface. access-group smtp in interface
outside

!--- Instruct the ASA to hand any traffic destined for 192.168.x.x !--- to the router at 192.168.1.2. r
inside 192.168.0.0 255.255.0.0 192.168.1.2 1

!--- Set the default route to 209.164.3.2. !--- The ASA assumes that this address is a router address.
outside 0.0.0.0 0.0.0.0 209.164.3.2 1

timeout xlate 3:00:00
timeout conn 1:00:00 half-closed 0:10:00 udp 0:02:00 icmp 0:00:02
timeout sunrpc 0:10:00 h323 0:05:00 h225 1:00:00 mgcp 0:05:00
timeout mgcp-pat 0:05:00 sip 0:30:00 sip_media 0:02:00
timeout uauth 0:05:00 absolute
no snmp-server location
no snmp-server contact
snmp-server enable traps snmp authentication linkup linkdown coldstart
telnet timeout 5
ssh timeout 5
console timeout 0
!
class-map inspection_default
 match default-inspection-traffic
!
!
!--- SMTP/ESMTP is inspected as "inspect esmtp" is included in the map. policy-map global_policy class
inspection_default inspect dns maximum-length 512 inspect ftp inspect h323 h225 inspect h323 ras inspec
netbios inspect rsh inspect rtsp inspect skinny inspect esmtp
  inspect sqlnet
  inspect sunrpc
  inspect tftp
  inspect sip
  inspect xdmcp
!

!--- SMTP/ESMTP is inspected as "inspect esmtp" is included in the map. service-policy global_policy gl
Cryptochecksum:f96eaf0268573bd1af005e1db9391284 : end
```

路由器B

```
Current configuration:
 !
 version 12.4
 service timestamps debug uptime
 service timestamps log uptime
 no service password-encryption
 !
 hostname 2522-R5
 !
 enable secret 5 $1$N0F3$XE2aJhJlCbLWYloDwNvcV.
 !
 ip subnet-zero
 !
 !
 !
 !
 !
 interface Ethernet0

!--- Sets the IP address of the Ethernet interface to 209.164.3.2. ip address 209.164.3.2 255.255.255.2
interface Serial0 !--- Instructs the serial interface to use !--- the address of the Ethernet interface
the need arises. ip unnumbered ethernet 0 ! interface Serial1 no ip address no ip directed-broadcast !
classless !--- Instructs the router to send all traffic !--- destined for 209.164.3.x to 209.164.3.1. i
```

```
route 209.164.3.0 255.255.255.0 209.164.3.1

!--- Instructs the router to send !--- all other remote traffic out serial 0. ip route 0.0.0.0 0.0.0.
0
 !
 !
 line con 0
  transport input none
 line aux 0
  autoselect during-login
 line vty 0 4
  exec-timeout 5 0
  password ww
  login
 !
 end
```

註：路由器A的配置未新增。您只需為介面上提供IP地址，並將預設網關設定為192.168.1.1（即ASA的內部介面）。

ESMTP TLS配置

注意：如果您對電子郵件通訊使用傳輸層安全(TLS)加密，則ASA中的ESMTP檢查功能（預設情況下啟用）會丟棄資料包。要允許啟用TLS的電子郵件，請按照此輸出所示禁用ESMTP檢查功能。如需詳細資訊，請參閱Cisco錯誤ID CSCtn08326。

```
ciscoasa(config)#
policy-map global_policy

ciscoasa(config-pmap)#class inspection_default
ciscoasa(config-pmap-c)#no inspect esmtp
ciscoasa(config-pmap-c)#exit
ciscoasa(config-pmap)#exit
```

注意：在ASA 8.0.3版及更高版本中，可使用allow-tls命令來允許啟用了inspect esmtp的TLS電子郵件，如下所示：

```
policy-map type inspect esmtp tls-esmtp
parameters
allow-tls
inspect esmtp tls-esmtp
```

驗證

目前沒有適用於此組態的驗證程序。

疑難排解

logging buffered 7命令將消息定向到ASA控制檯。如果與郵件伺服器的連線存在問題，請檢查控制檯調試消息以找到傳送站和接收站的IP地址以確定問題。

相關資訊

- Cisco ASA 5500系列調適型安全裝置
- 要求建議 (RFC)
- 技術支援與文件 - Cisco Systems