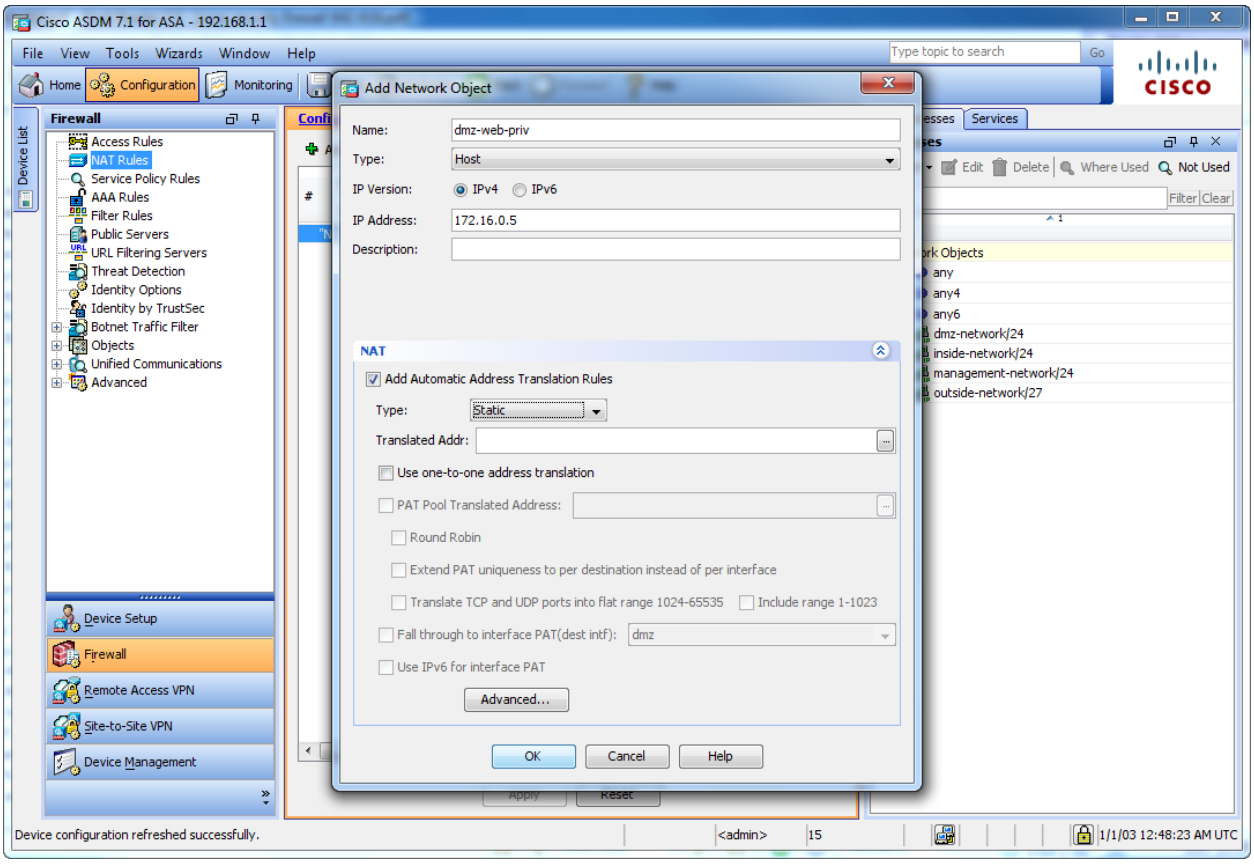
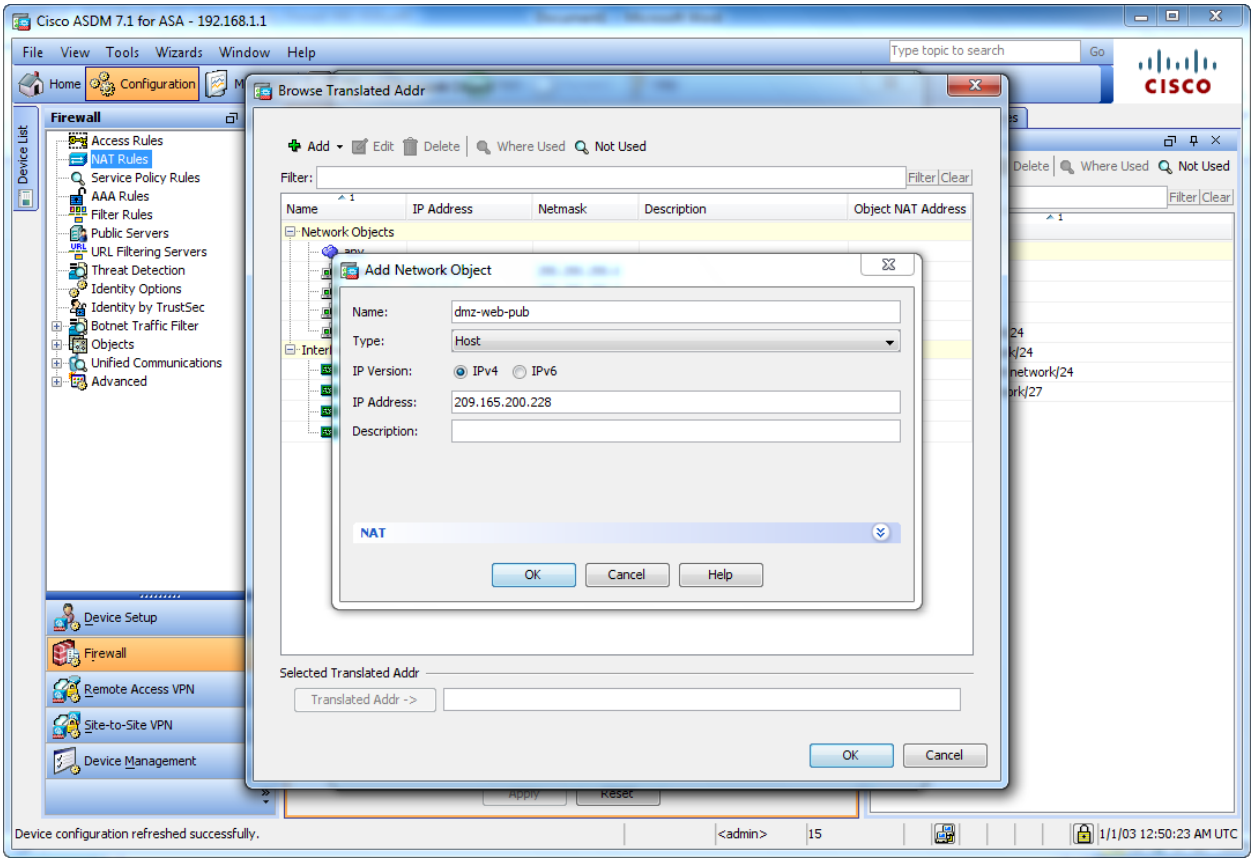
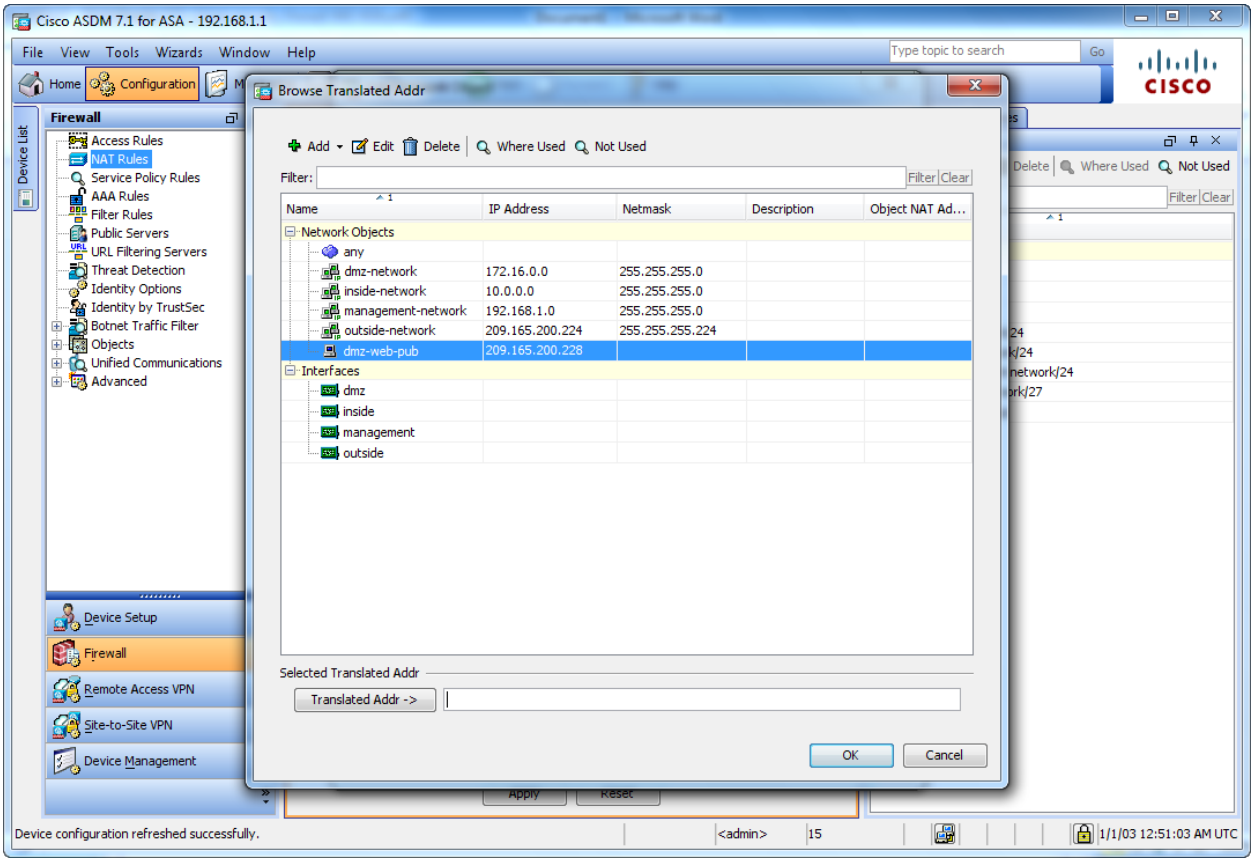
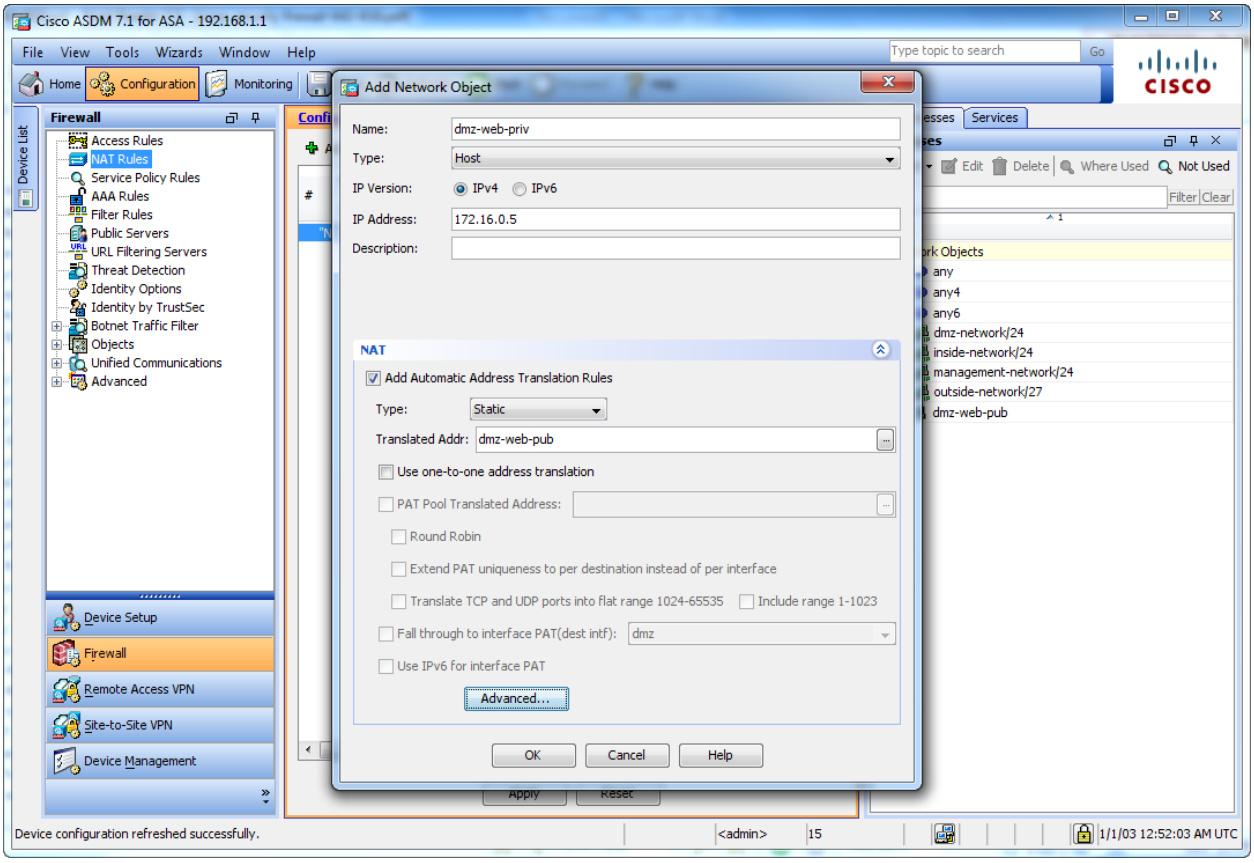
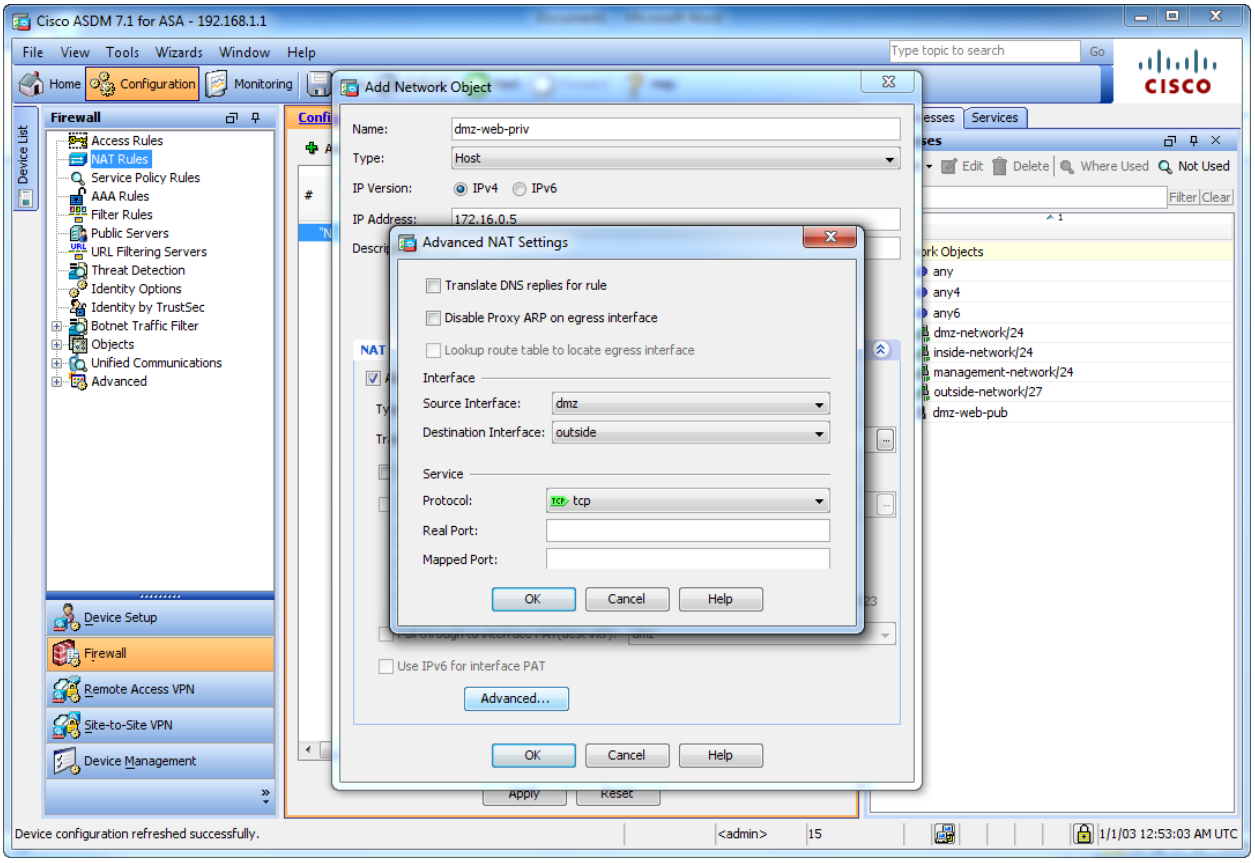
Cấu hình static nat với object từ phiên bản 8.3 trở lên

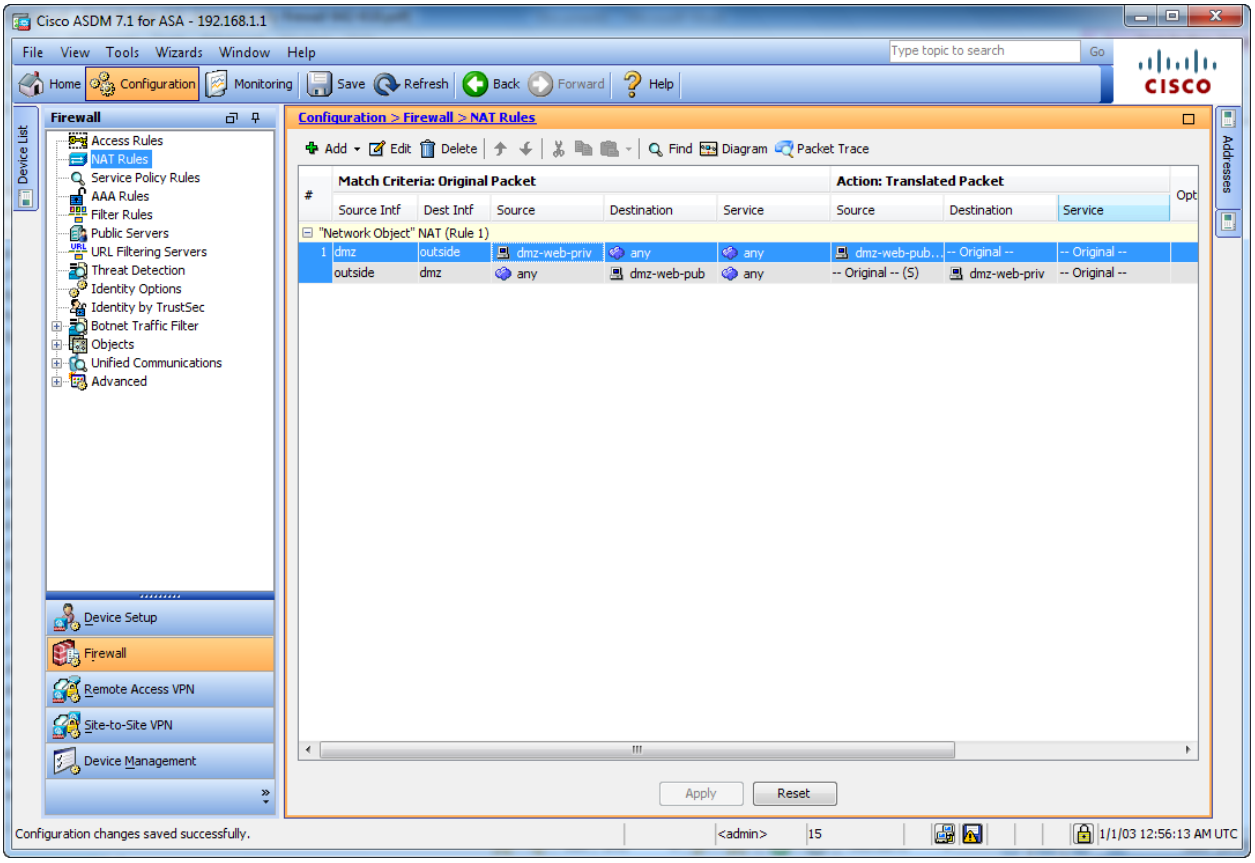


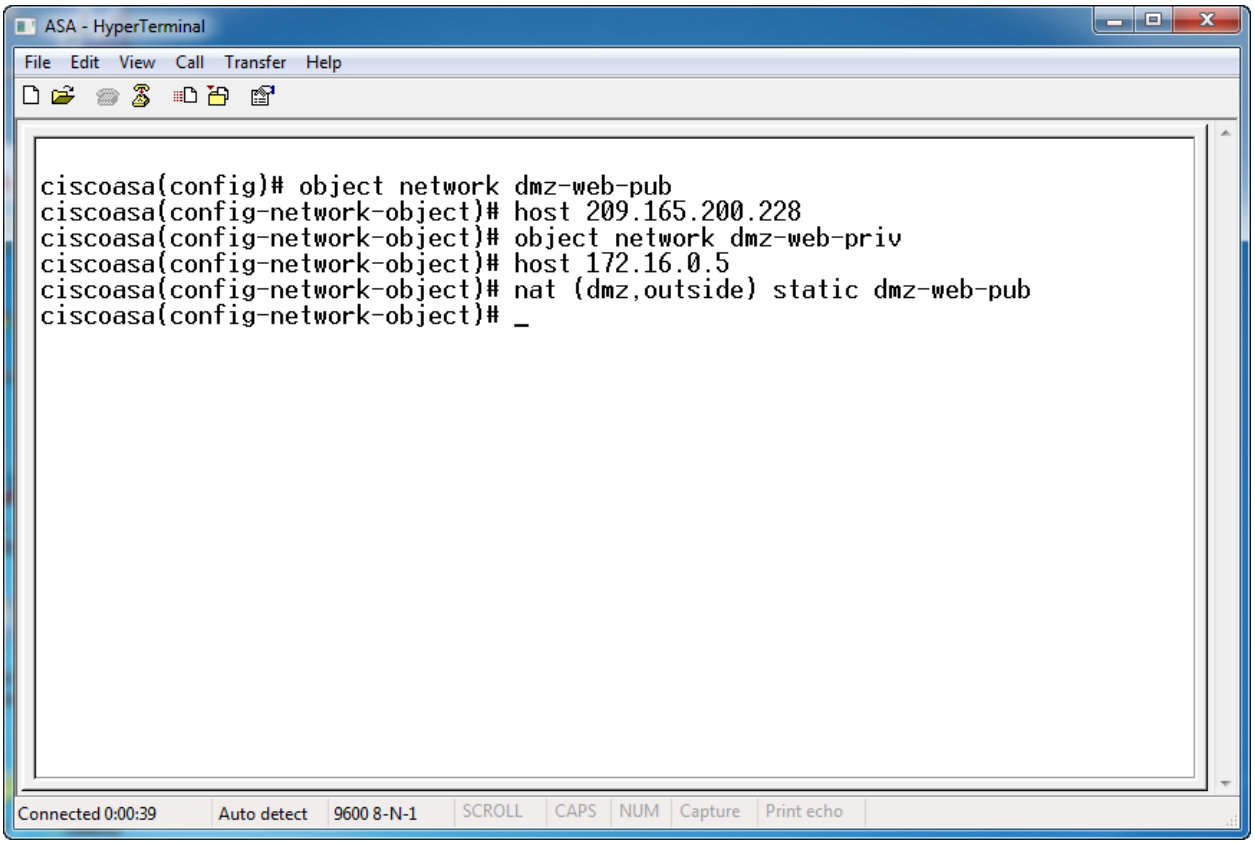

Cisco ASDM 7.1 for ASA - 192.168.1.1
File View Tools Wizards Window Help
Home Configuration
Firewall
Access Rules
NAT Rules
Service Policy Rules
AAA Rules
Filter Rules
Public Servers
URL Filtering Servers
Threat Detection
Identity Options
Identity by TrustSec
Botnet Traffic Filter
Objects
Unified Communications
Advanced
Device Setup
Firewall
Remote Access VPN
Site-to-Site VPN
Device Management
Browse Translated Addr
Add Edit Delete Where Used Not Used
Filter:
Name
IP Address
Netmask
Description
Object NAT Address
Network Objects
Add Network Object
Name: dmz-web-pub
Type: Host
IP Version: IPv4 IPv6
IP Address: 209.165.200.228
Description:
NAT
OK Cancel Help
Selected Translated Addr
Translated Addr ->
OK Cancel
Device configuration refreshed successfully.
<admin>
15
1/1/03 12:50:23 AM UTC


Cisco ASDM 7.1 for ASA - 192.168.1.1
File View Tools Wizards Window Help
Home Configuration
Browse Translated Addr
Add Edit Delete Where Used Not Used
Filter: Filter Clear
Name IP Address Netmask Description Object NAT Ad...
Network Objects
any
dmz-network 172.16.0.0 255.255.255.0
inside-network 10.0.0.0 255.255.255.0
management-network 192.168.1.0 255.255.255.0
outside-network 209.165.200.224 255.255.255.224
dmz-web-pub 209.165.200.228
Interfaces
dmz
inside
management
outside
Selected Translated Addr
Translated Addr ->
OK Cancel
Firewall
Access Rules
NAT Rules
Service Policy Rules
AAA Rules
Filter Rules
Public Servers
URL Filtering Servers
Threat Detection
Identity Options
Identity by TrustSec
Botnet Traffic Filter
Objects
Unified Communications
Advanced
Device Setup
Firewall
Remote Access VPN
Site-to-Site VPN
Device Management
Apply Reset
Device configuration refreshed successfully.
<admin> 15
1/1/03 12:51:03 AM UTC

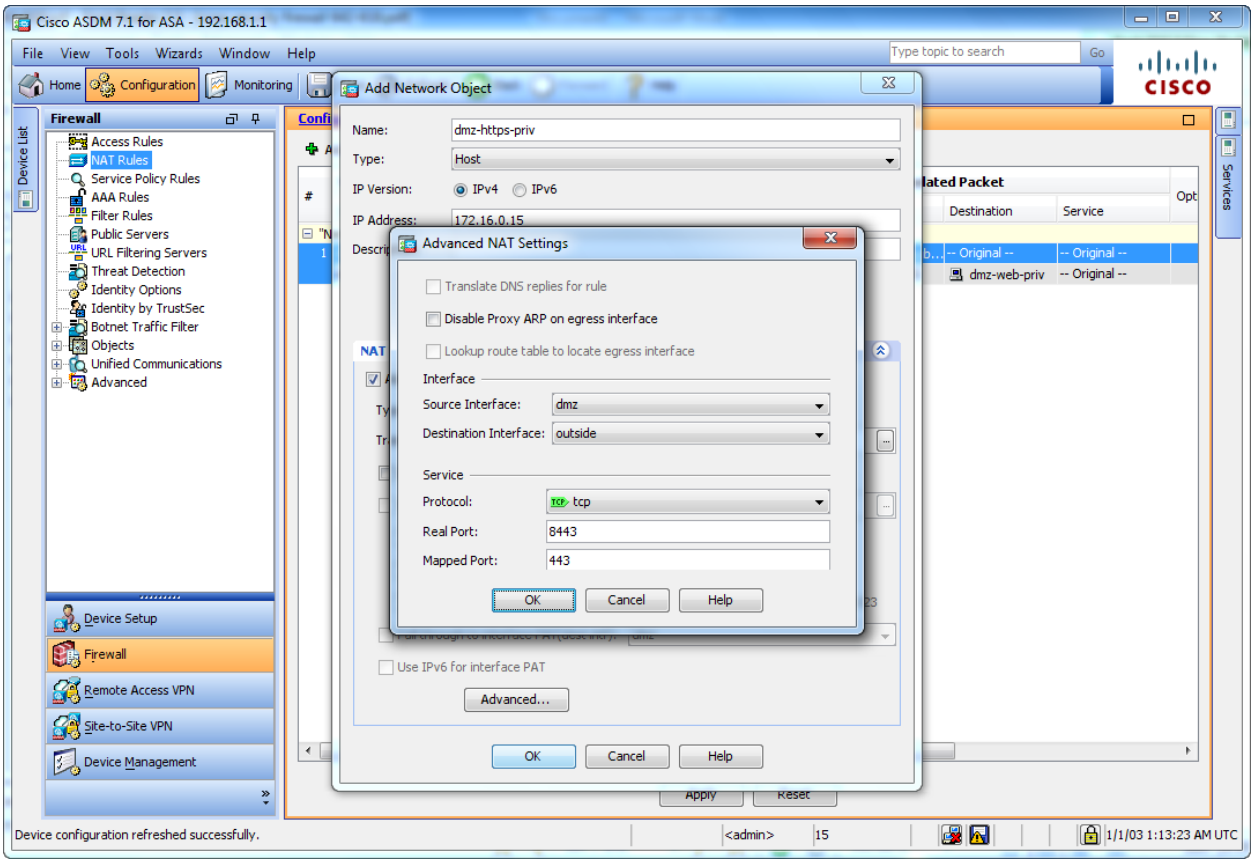

Cisco ASDM 7.1 for ASA - 192.168.1.1
File View Tools Wizards Window Help
Home Configuration Monitoring
Add Network Object
Name: dmz-web-priv
Type: Host
IP Version: IPv4 IPv6
IP Address: 172.16.0.5
Description:
NAT
Add Automatic Address Translation Rules
Type: Static
Translated Addr: dmz-web-pub
Use one-to-one address translation
PAT Pool Translated Address:
Round Robin
Extend PAT uniqueness to per destination instead of per interface
Translate TCP and UDP ports into flat range 1024-65535
Include range 1-1023
Fall through to interface PAT(dest intf): dmz
Use IPv6 for interface PAT
Advanced...
OK
Cancel
Help
Firewall
Access Rules
NAT Rules
Service Policy Rules
AAA Rules
Filter Rules
Public Servers
URL Filtering Servers
Threat Detection
Identity Options
Identity by TrustSec
Botnet Traffic Filter
Objects
Unified Communications
Advanced
Device Setup
Firewall
Remote Access VPN
Site-to-Site VPN
Device Management
Services
Edit
Delete
Where Used
Not Used
Filter
Clear
any
any4
any6
dmz-network/24
inside-network/24
management-network/24
outside-network/27
dmz-web-pub
Device configuration refreshed successfully.
<admin>
15
1/1/03 12:52:03 AM UTC

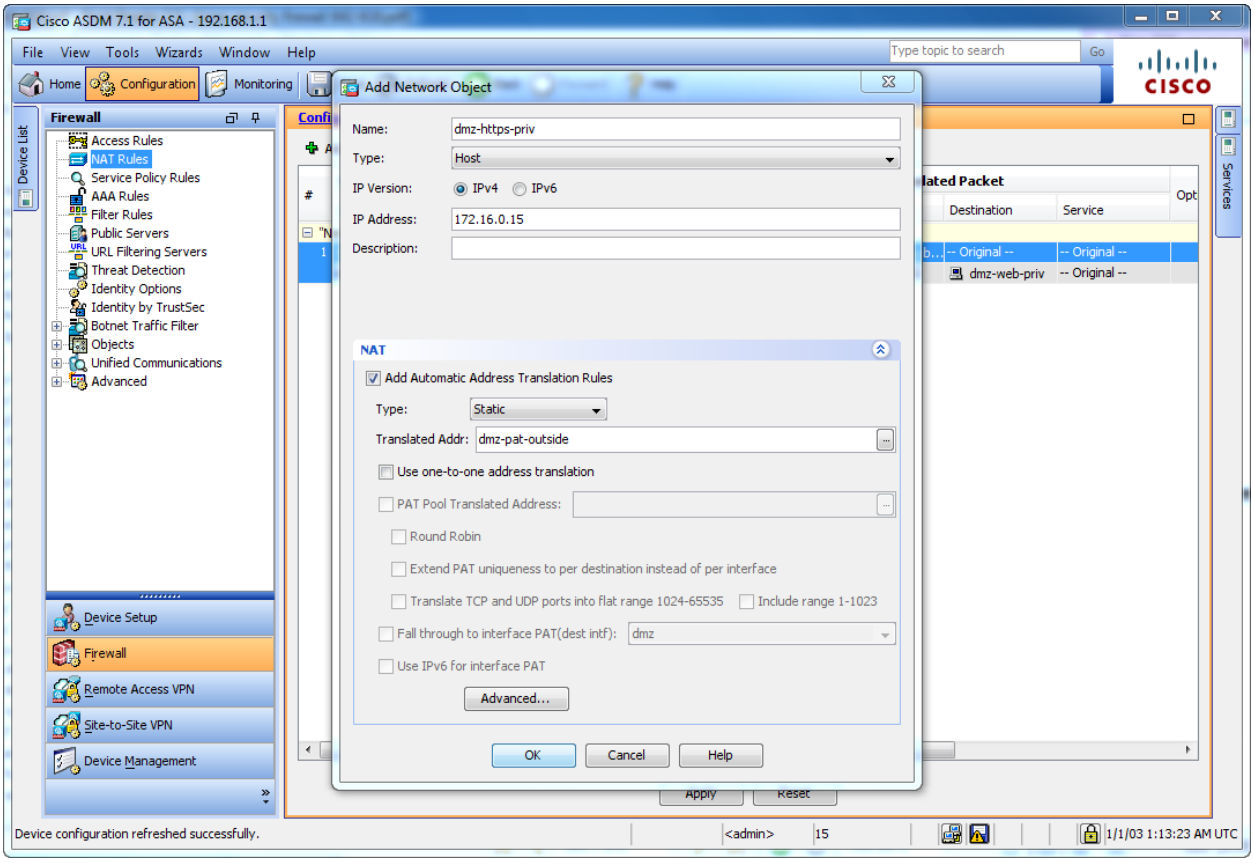

Cisco ASDM 7.1 for ASA - 192.168.1.1
File View Tools Wizards Window Help
Home Configuration Monitoring
Add Network Object
Name: dmz-web-priv
Type: Host
IP Version: IPv4 IPv6
IP Address: 172.16.0.5
Advanced NAT Settings
Translate DNS replies for rule
Disable Proxy ARP on egress interface
Lookup route table to locate egress interface
Interface
Source Interface: dmz
Destination Interface: outside
Service
Protocol: tcp
Real Port:
Mapped Port:
OK Cancel Help
Use IPv6 for interface PAT
Advanced...
OK Cancel Help
Firewall
Access Rules
NAT Rules
Service Policy Rules
AAA Rules
Filter Rules
Public Servers
URL Filtering Servers
Threat Detection
Identity Options
Identity by TrustSec
Botnet Traffic Filter
Objects
Unified Communications
Advanced
Device Setup
Firewall
Remote Access VPN
Site-to-Site VPN
Device Management
Apply Reset
Device configuration refreshed successfully.
<admin>
15
1/1/03 12:53:03 AM UTC

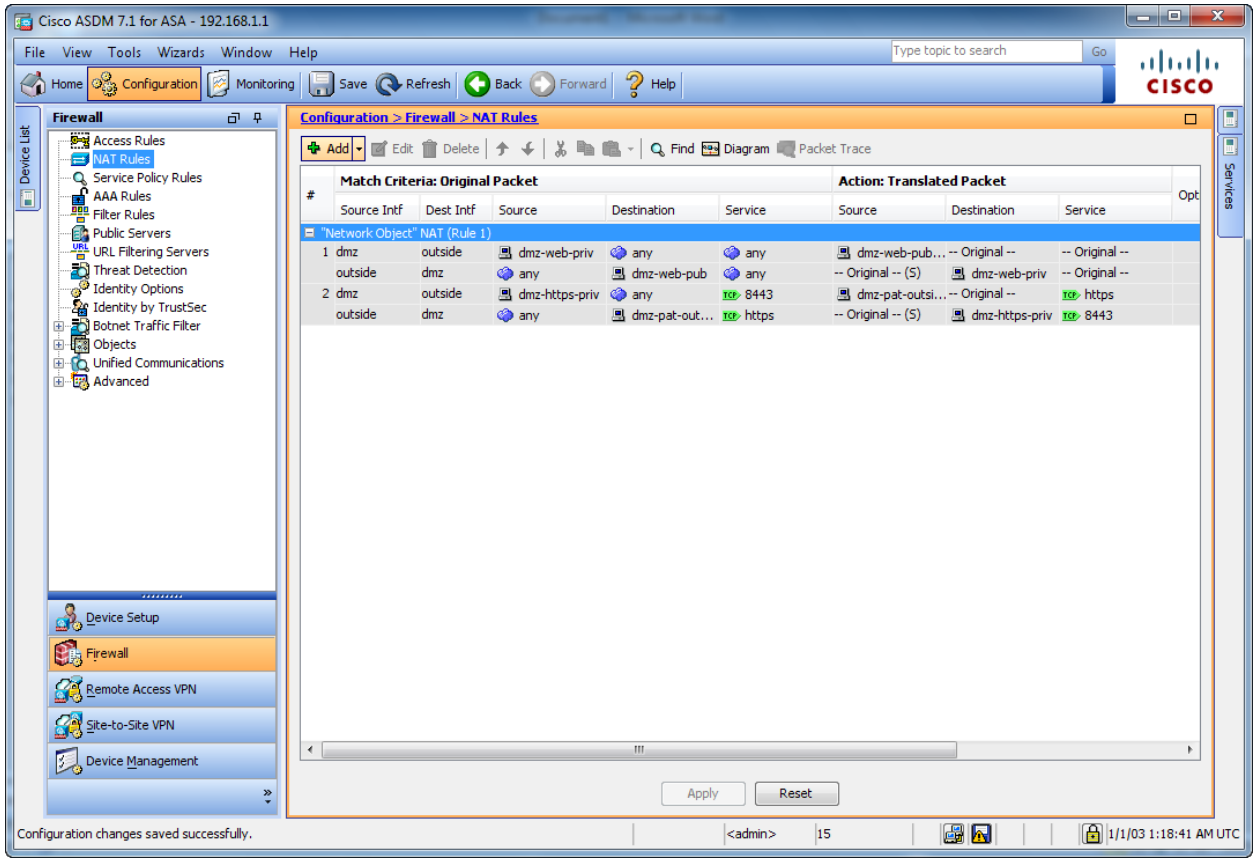

Cisco ASDM 7.1 for ASA - 192.168.1.1
File View Tools Wizards Window Help
Type topic to search
Go
Home Configuration Monitoring Save Refresh Back Forward Help
CISCO
Device List
Firewall
Access Rules
NAT Rules
Service Policy Rules
AAA Rules
Filter Rules
Public Servers
URL Filtering Servers
Threat Detection
Identity Options
Identity by TrustSec
Botnet Traffic Filter
Objects
Unified Communications
Advanced
Device Setup
Firewall
Remote Access VPN
Site-to-Site VPN
Device Management
Configuration > Firewall > NAT Rules
Add Edit Delete Find Diagram Packet Trace
Match Criteria: Original Packet
Action: Translated Packet
Source Intf Dest Intf Source Destination Service Source Destination Service Opt
"Network Object" NAT (Rule 1)
1 dmz outside dmz-web-priv any any dmz-web-pub... -- Original -- -- Original --
outside dmz any dmz-web-pub any -- Original -- (S) dmz-web-priv -- Original --
Apply Reset
Addresses
Configuration changes saved successfully.
<admin> 15
1/1/03 12:56:13 AM UTC

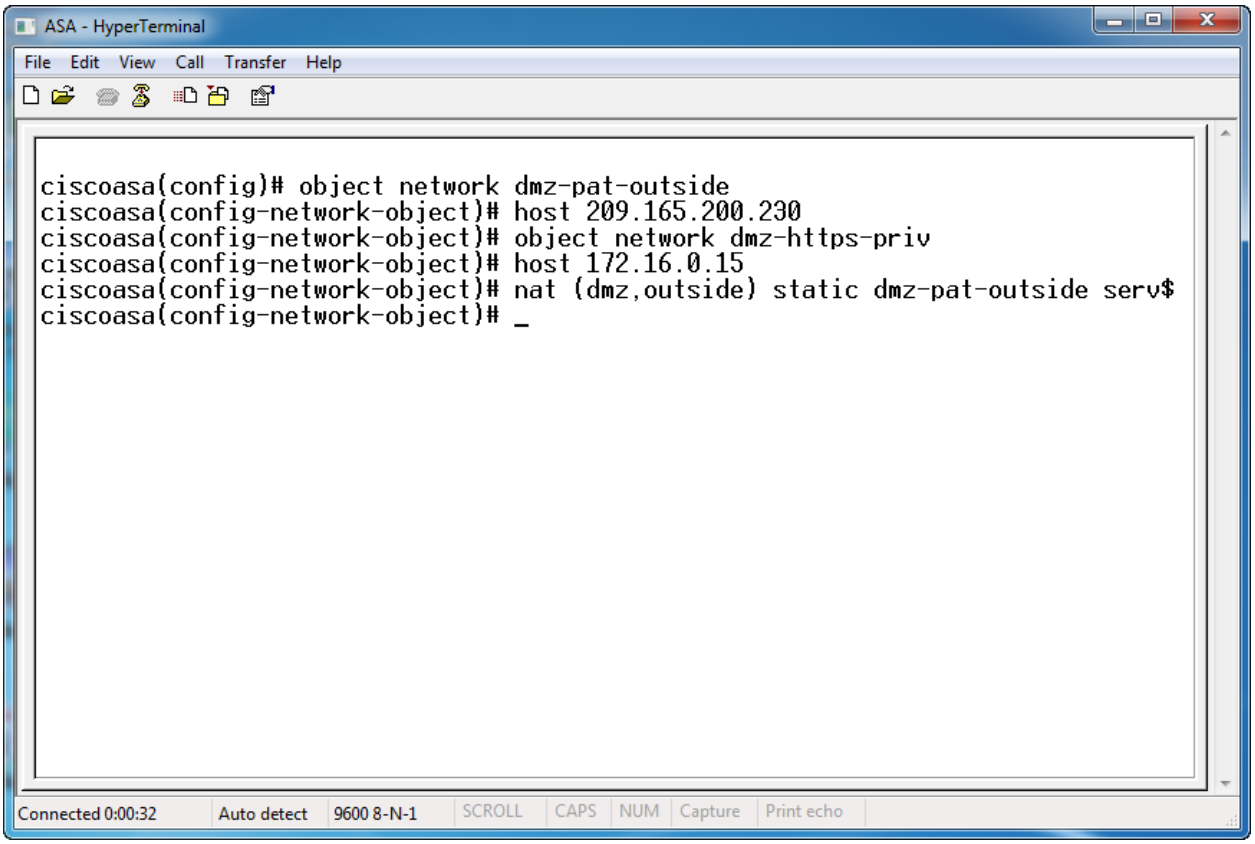

ASA - HyperTerminal
File Edit View Call Transfer Help
ciscoasa(config)# object network dmz-web-pub
ciscoasa(config-network-object)# host 209.165.200.228
ciscoasa(config-network-object)# object network dmz-web-priv
ciscoasa(config-network-object)# host 172.16.0.5
ciscoasa(config-network-object)# nat (dmz,outside) static dmz-web-pub
ciscoasa(config-network-object)# _
Connected 0:00:39
Auto detect
9600 8-N-1
SCROLL
CAPS
NUM
Capture
Print echo

Cấu hình static pat

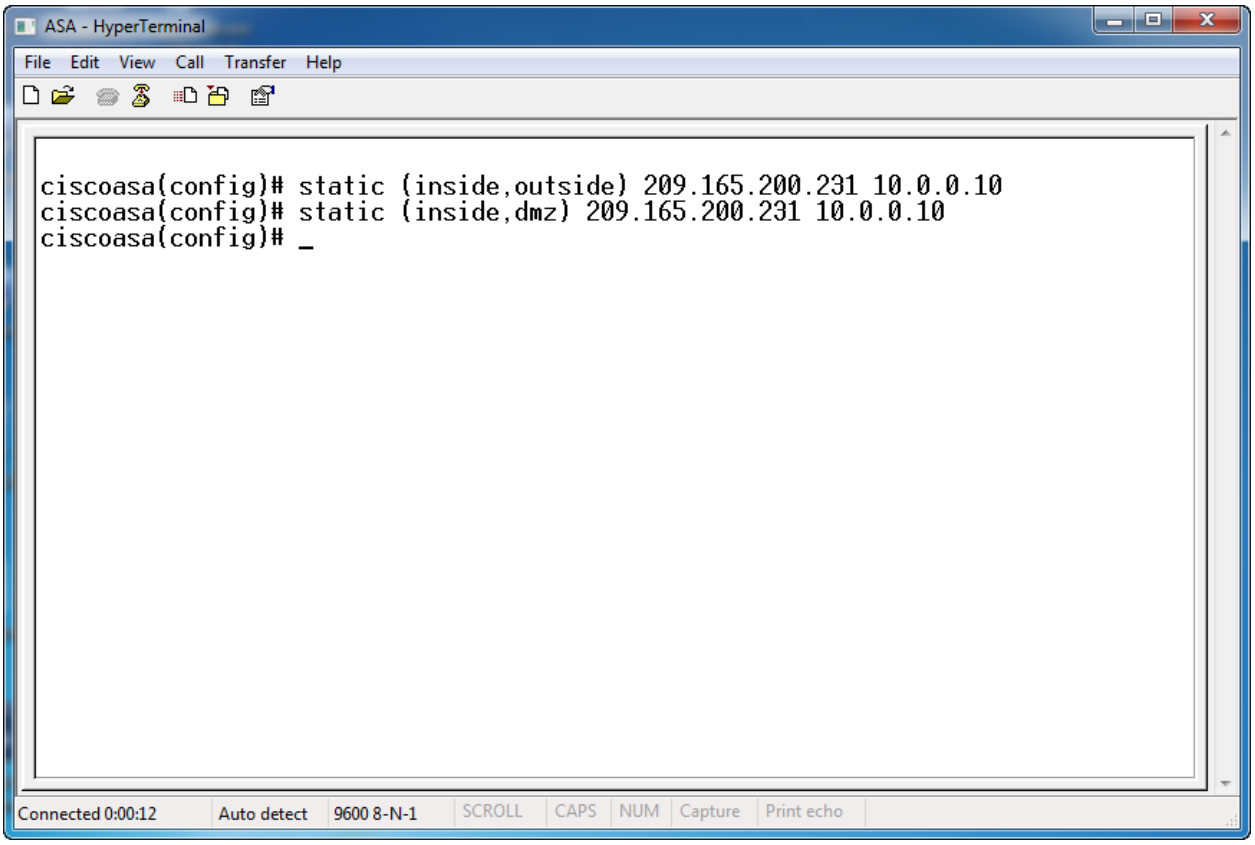



Cisco ASDM 7.1 for ASA - 192.168.1.1
File View Tools Wizards Window Help
Home Configuration Monitoring
Add Network Object
Name: dmz-https-priv
Type: Host
IP Version: IPv4 IPv6
IP Address: 172.16.0.15
Description:
NAT
Add Automatic Address Translation Rules
Type: Static
Translated Addr: dmz-pat-outside
Use one-to-one address translation
PAT Pool Translated Address:
Round Robin
Extend PAT uniqueness to per destination instead of per interface
Translate TCP and UDP ports into flat range 1024-65535
Include range 1-1023
Fall through to interface PAT(dest intf): dmz
Use IPv6 for interface PAT
Advanced...
OK
Cancel
Help
Firewall
Access Rules
NAT Rules
Service Policy Rules
AAA Rules
Filter Rules
Public Servers
URL Filtering Servers
Threat Detection
Identity Options
Identity by TrustSec
Botnet Traffic Filter
Objects
Unified Communications
Advanced
Device Setup
Firewall
Remote Access VPN
Site-to-Site VPN
Device Management
Destination
Service
dmz-web-priv
Apply
Reset
Device configuration refreshed successfully.
<admin>
15
1/1/03 1:13:23 AM UTC

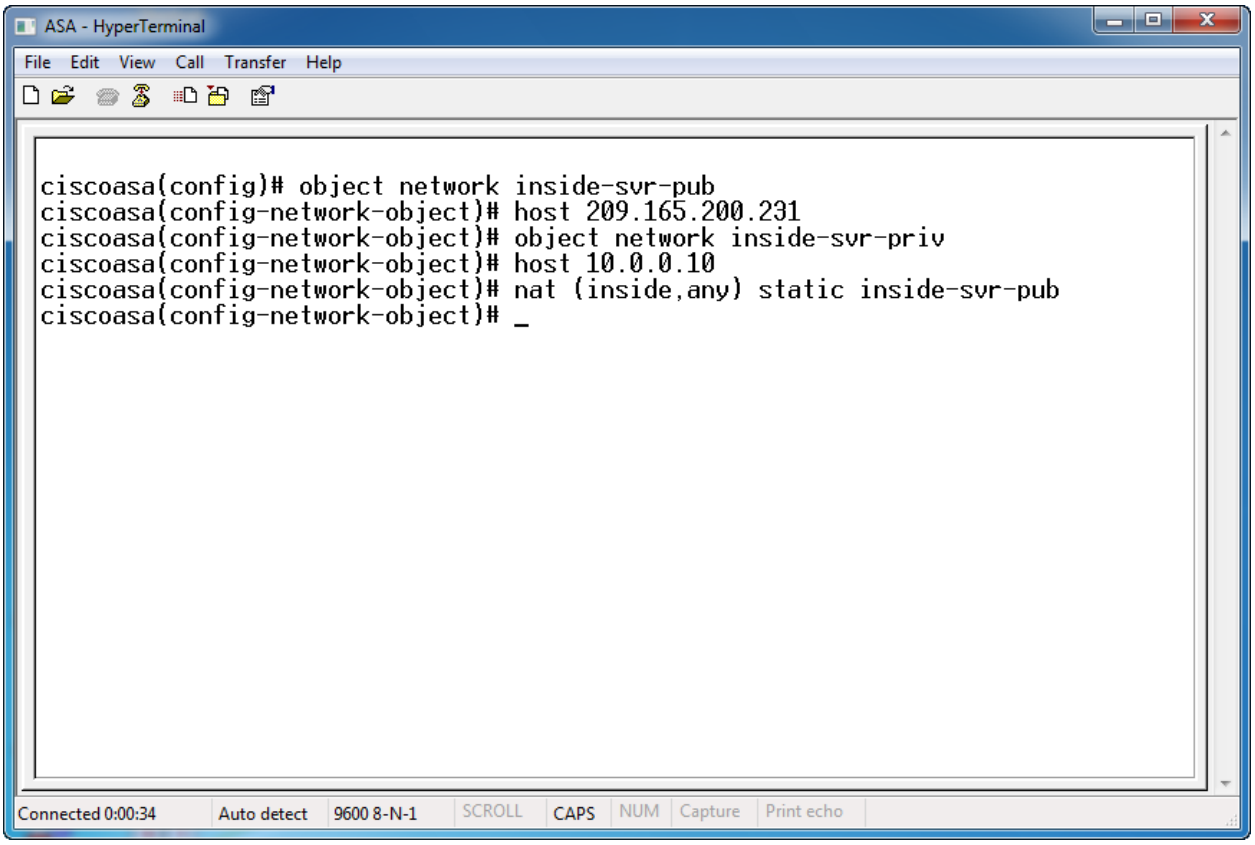

Cisco ASDM 7.1 for ASA - 192.168.1.1
File View Tools Wizards Window Help
Type topic to search
Go
Home Configuration Monitoring Save Refresh Back Forward Help
CISCO
Device List
Firewall
Access Rules
NAT Rules
Service Policy Rules
AAA Rules
Filter Rules
Public Servers
URL Filtering Servers
Threat Detection
Identity Options
Identity by TrustSec
Botnet Traffic Filter
Objects
Unified Communications
Advanced
Device Setup
Firewall
Remote Access VPN
Site-to-Site VPN
Device Management
Configuration > Firewall > NAT Rules
Add Edit Delete Find Diagram Packet Trace
Match Criteria: Original Packet Action: Translated Packet Opt
Source Intf Dest Intf Source Destination Service Source Destination Service
"Network Object" NAT (Rule 1)
1 dmz outside dmz-web-priv any any dmz-web-pub... -- Original -- -- Original --
outside dmz any dmz-web-pub any -- Original -- (S) dmz-web-priv -- Original --
2 dmz outside dmz-https-priv any 8443 dmz-pat-outsi... -- Original -- https
outside dmz any dmz-pat-out... https -- Original -- (S) dmz-https-priv 8443
Apply Reset
Services
Configuration changes saved successfully.
<admin> 15 1/1/03 1:18:41 AM UTC


ASA - HyperTerminal
File Edit View Call Transfer Help
ciscoasa(config)# object network dmz-pat-outside
ciscoasa(config-network-object)# host 209.165.200.230
ciscoasa(config-network-object)# object network dmz-https-priv
ciscoasa(config-network-object)# host 172.16.0.15
ciscoasa(config-network-object)# nat (dmz,outside) static dmz-pat-outside serv$
ciscoasa(config-network-object)# _
Connected 0:00:32
Auto detect
9600 8-N-1
SCROLL
CAPS
NUM
Capture
Print echo

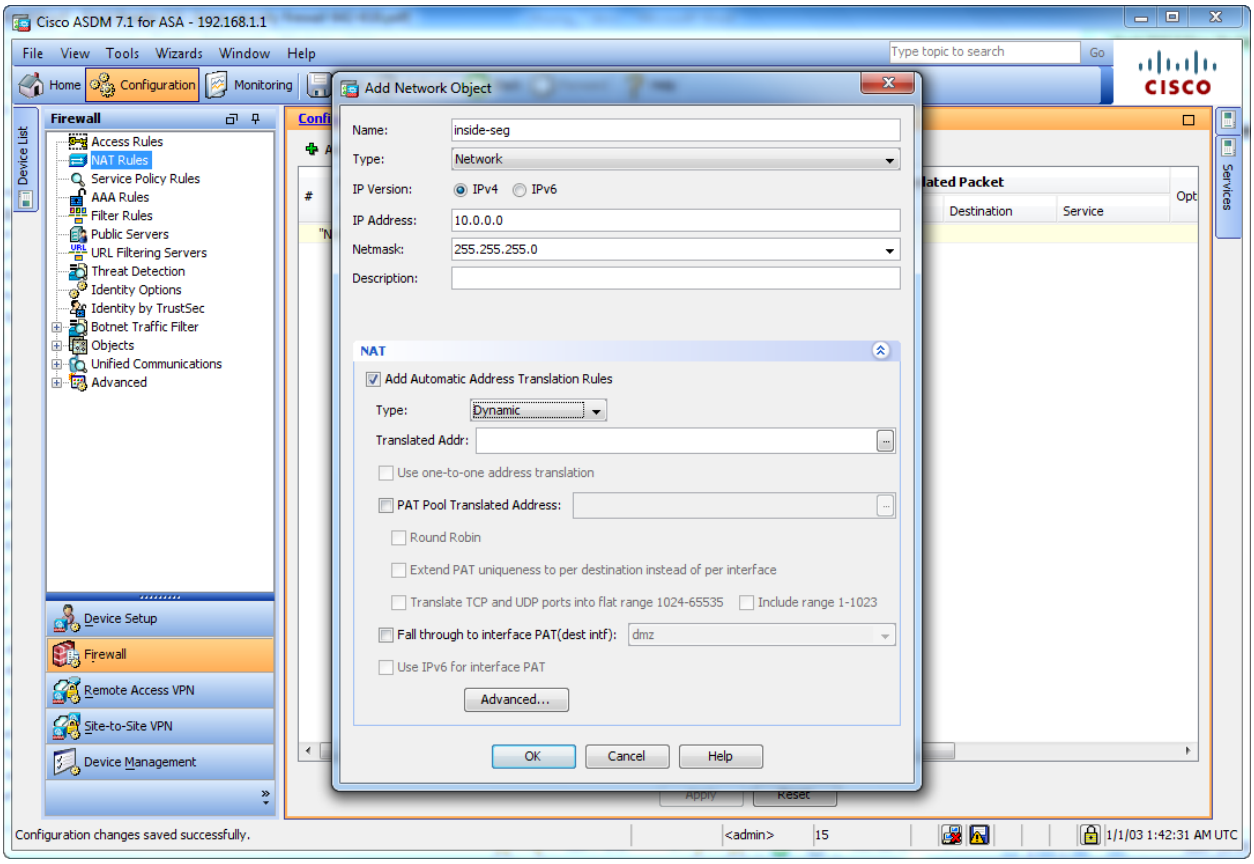
Cấu hình static trên IOS 8.2 trở xuống

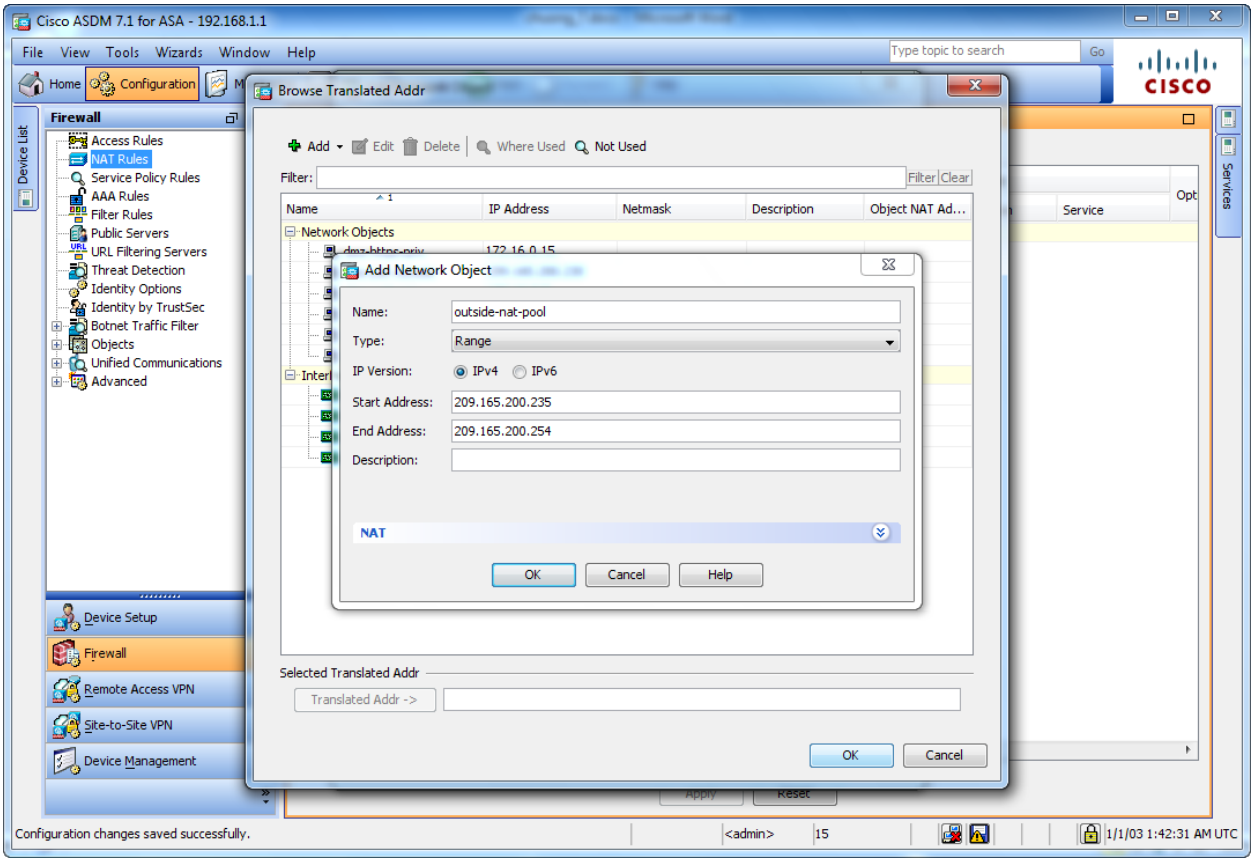


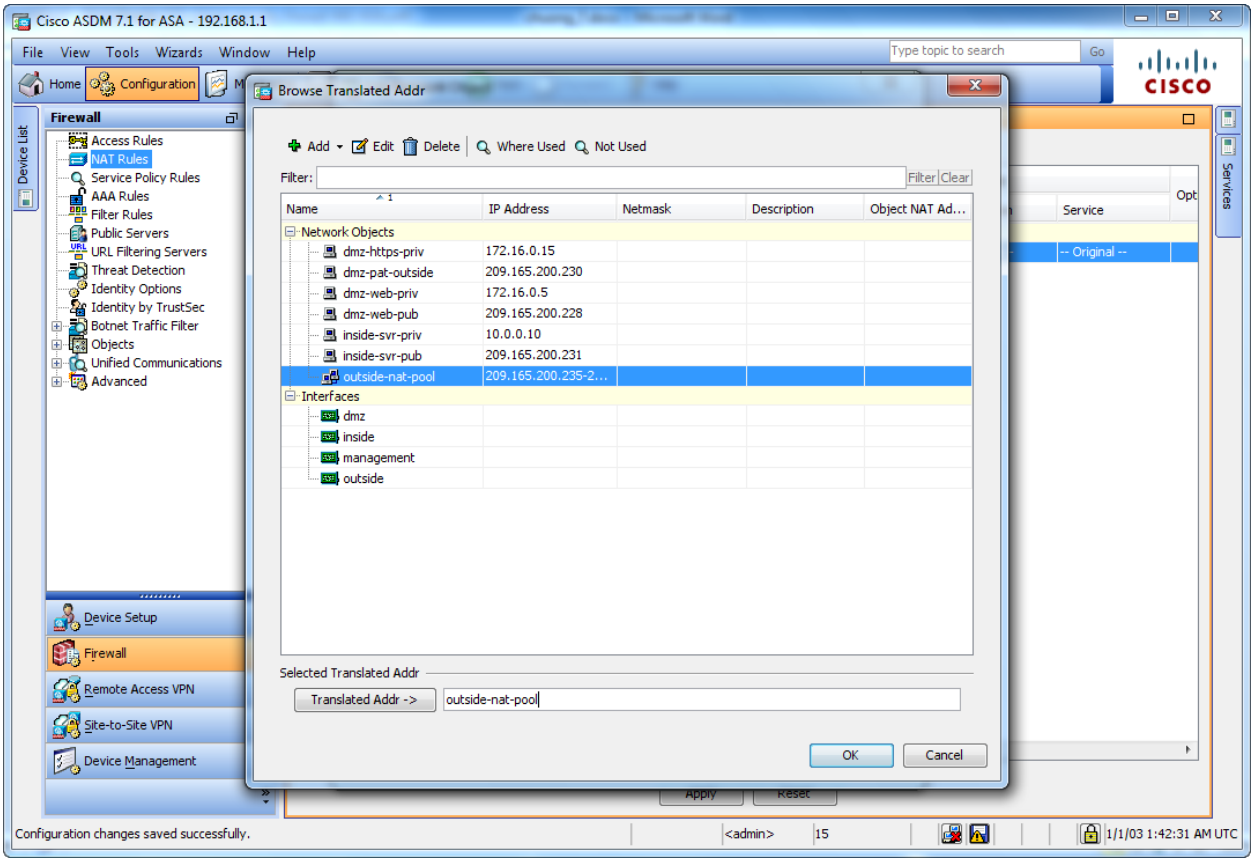
Cấu hình static với IOS 8.3 trở lên

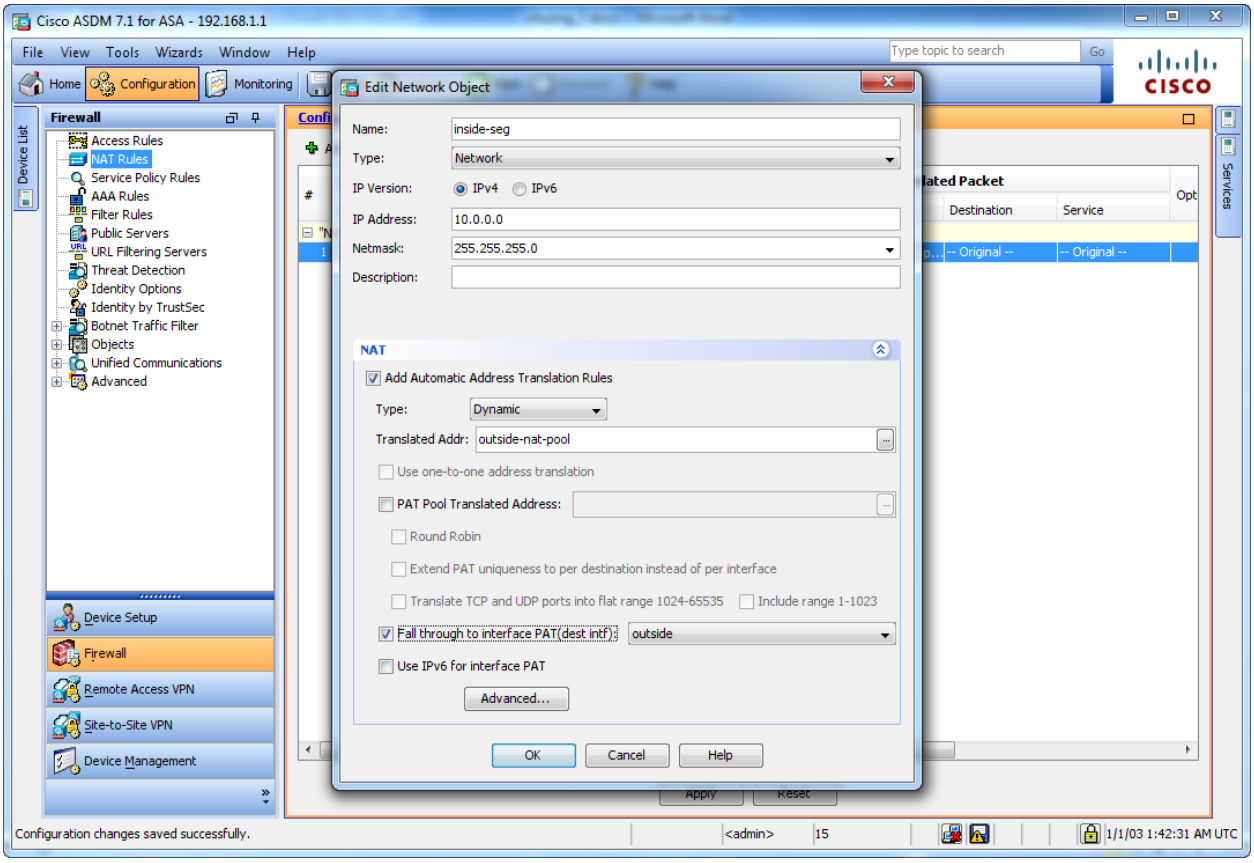


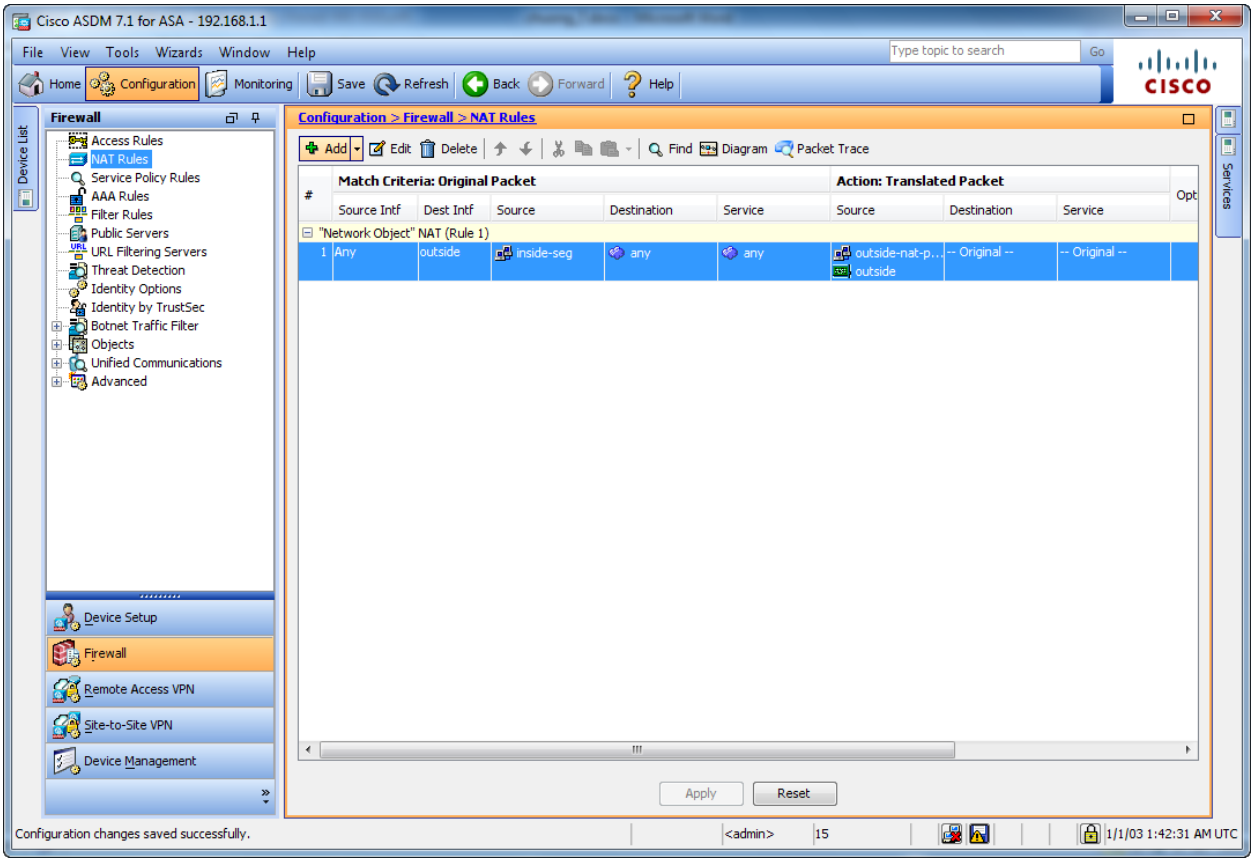
Cấu hình dynamic NAT



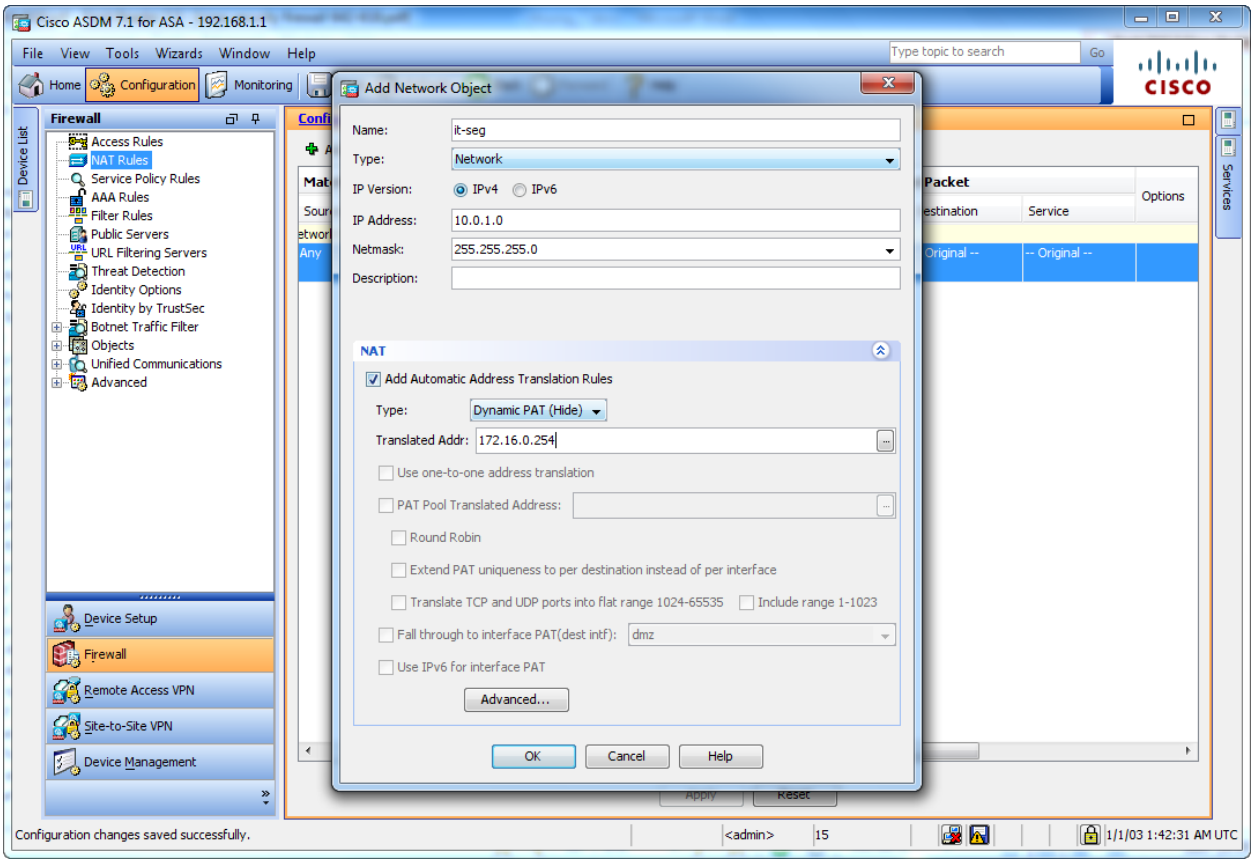

Cisco ASDM 7.1 for ASA - 192.168.1.1
File View Tools Wizards Window Help
Home Configuration
Browse Translated Addr
Add Edit Delete Where Used Not Used
Filter: Filter Clear
Name IP Address Netmask Description Object NAT Ad...
Network Objects
Add Network Object
Name: outside-nat-pool
Type: Range
IP Version: IPv4 IPv6
Start Address: 209.165.200.235
End Address: 209.165.200.254
Description:
NAT
OK Cancel Help
Selected Translated Addr
Translated Addr ->
OK Cancel
Firewall
Access Rules
NAT Rules
Service Policy Rules
AAA Rules
Filter Rules
Public Servers
URL Filtering Servers
Threat Detection
Identity Options
Identity by TrustSec
Botnet Traffic Filter
Objects
Unified Communications
Advanced
Device Setup
Firewall
Remote Access VPN
Site-to-Site VPN
Device Management
Service
Apply Reset
Configuration changes saved successfully.
<admin>
15
1/1/03 1:42:31 AM UTC

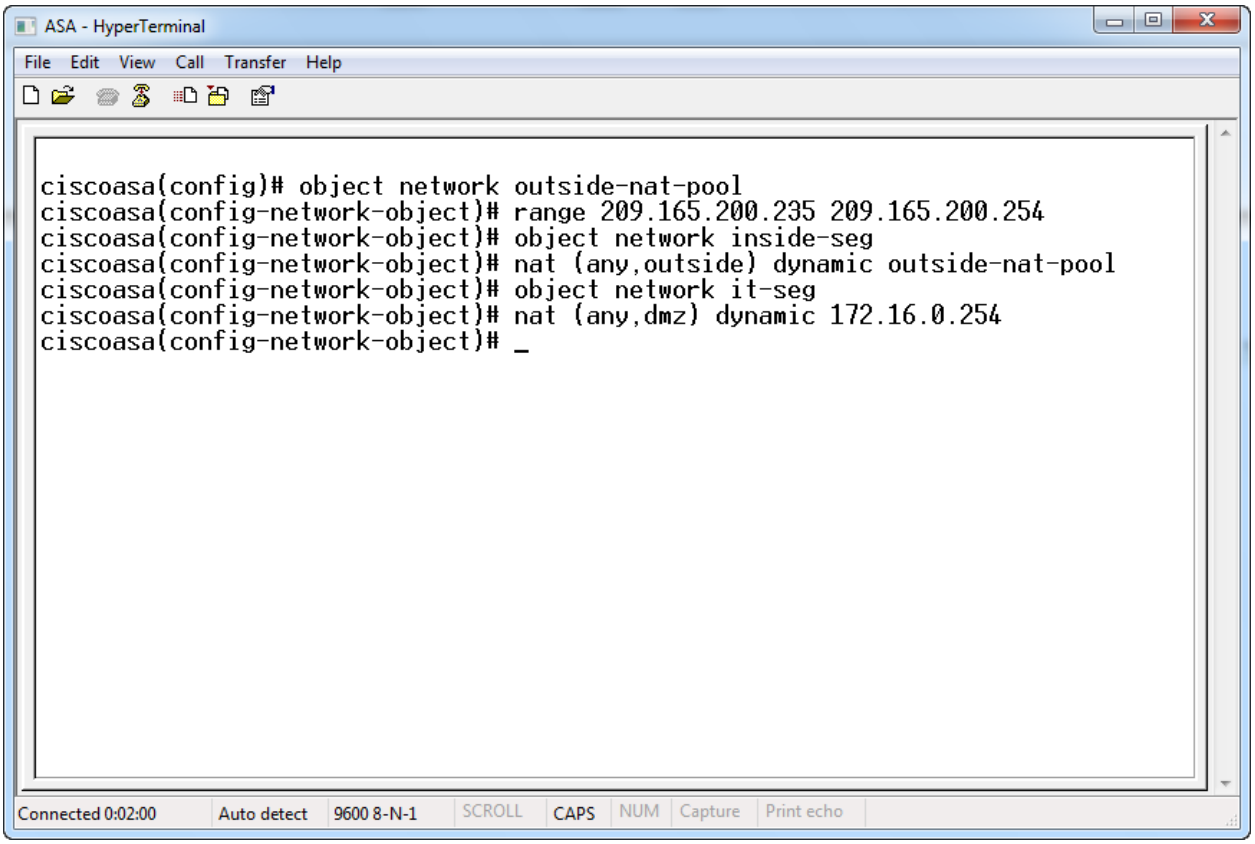

Cisco ASDM 7.1 for ASA - 192.168.1.1
File View Tools Wizards Window Help
Type topic to search
Go
Home
Configuration
CISCO
Firewall
Access Rules
NAT Rules
Service Policy Rules
AAA Rules
Filter Rules
Public Servers
URL Filtering Servers
Threat Detection
Identity Options
Identity by TrustSec
Botnet Traffic Filter
Objects
Unified Communications
Advanced
Device List
Services
Device Setup
Firewall
Remote Access VPN
Site-to-Site VPN
Device Management
Service
-- Original --
Apply
Reset
Browse Translated Addr
Add
Edit
Delete
Where Used
Not Used
Filter:
Filter
Clear
Name
IP Address
Netmask
Description
Object NAT Ad...
Network Objects
dmz-https-priv 172.16.0.15
dmz-pat-outside 209.165.200.230
dmz-web-priv 172.16.0.5
dmz-web-pub 209.165.200.228
inside-svr-priv 10.0.0.10
inside-svr-pub 209.165.200.231
outside-nat-pool 209.165.200.235-2...
Interfaces
dmz
inside
management
outside
Selected Translated Addr
Translated Addr ->
outside-nat-pool
OK
Cancel
Configuration changes saved successfully.
<admin>
15
1/1/03 1:42:31 AM UTC

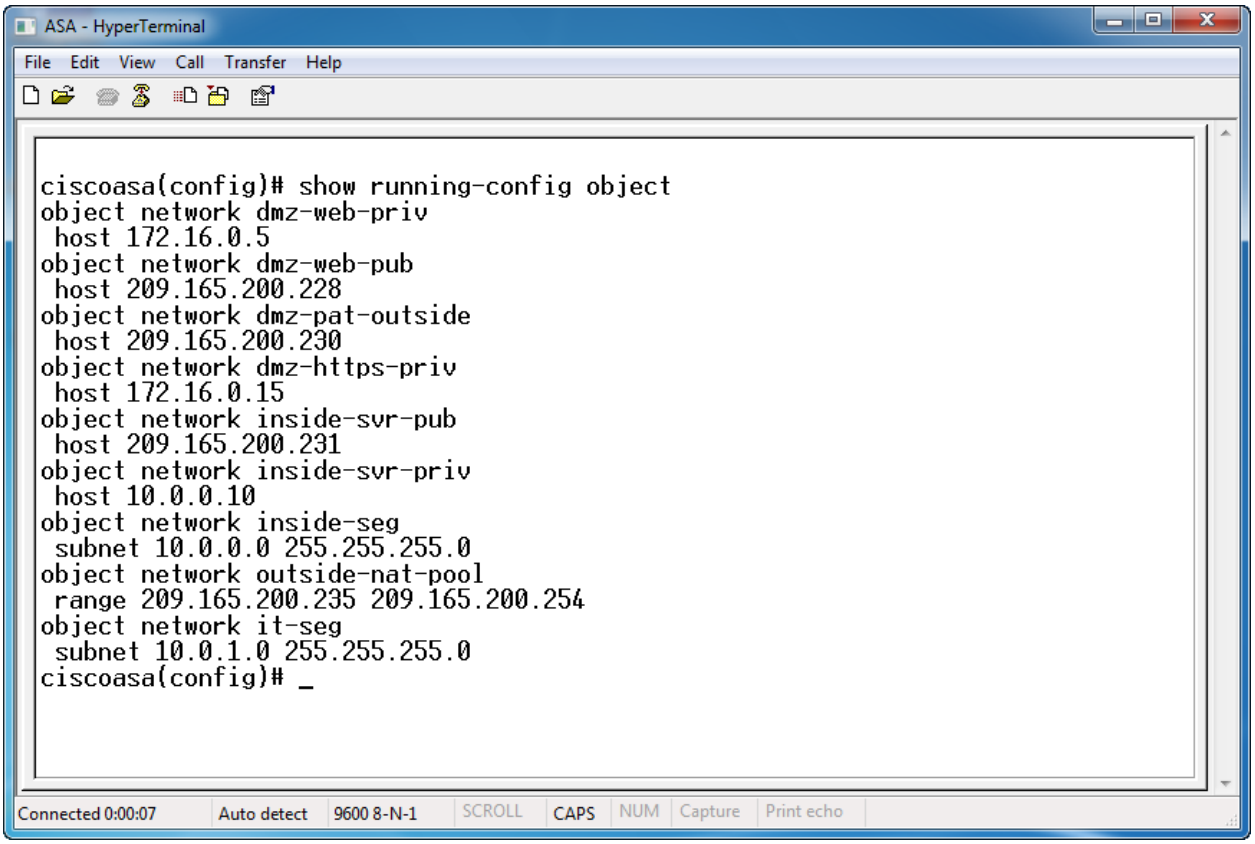

Cisco ASDM 7.1 for ASA - 192.168.1.1
File View Tools Wizards Window Help
Home Configuration Monitoring
Edit Network Object
Name: inside-seg
Type: Network
IP Version: IPv4 IPv6
IP Address: 10.0.0.0
Netmask: 255.255.255.0
Description:
NAT
Add Automatic Address Translation Rules
Type: Dynamic
Translated Addr: outside-nat-pool
Use one-to-one address translation
PAT Pool Translated Address:
Round Robin
Extend PAT uniqueness to per destination instead of per interface
Translate TCP and UDP ports into flat range 1024-65535
Include range 1-1023
Fall through to interface PAT(dest intf):
outside
Use IPv6 for interface PAT
Advanced...
OK
Cancel
Help
Firewall
Access Rules
NAT Rules
Service Policy Rules
AAA Rules
Filter Rules
Public Servers
URL Filtering Servers
Threat Detection
Identity Options
Identity by TrustSec
Botnet Traffic Filter
Objects
Unified Communications
Advanced
Device Setup
Firewall
Remote Access VPN
Site-to-Site VPN
Device Management
Destination
Service
-- Original --
Apply
Reset
Configuration changes saved successfully.
<admin>
15
1/1/03 1:42:31 AM UTC


Cisco ASDM 7.1 for ASA - 192.168.1.1
File View Tools Wizards Window Help
Type topic to search
Go
Home Configuration Monitoring Save Refresh Back Forward Help
CISCO
Device List
Firewall
Access Rules
NAT Rules
Service Policy Rules
AAA Rules
Filter Rules
Public Servers
URL Filtering Servers
Threat Detection
Identity Options
Identity by TrustSec
Botnet Traffic Filter
Objects
Unified Communications
Advanced
Device Setup
Firewall
Remote Access VPN
Site-to-Site VPN
Device Management
Configuration > Firewall > NAT Rules
Add Edit Delete Find Diagram Packet Trace
Match Criteria: Original Packet Action: Translated Packet Opt
Source Intf Dest Intf Source Destination Service Source Destination Service
"Network Object" NAT (Rule 1)
1 Any outside inside-seg any any outside-nat-p... -- Original -- -- Original --
outside
Apply Reset
Configuration changes saved successfully.
<admin> 15
1/1/03 1:42:31 AM UTC
Services

Cấu hình dynamic PAT (HIDE)




ASA - HyperTerminal
File Edit View Call Transfer Help
ciscoasa(config)# object network outside-nat-pool
ciscoasa(config-network-object)# range 209.165.200.235 209.165.200.254
ciscoasa(config-network-object)# object network inside-seg
ciscoasa(config-network-object)# nat (any,outside) dynamic outside-nat-pool
ciscoasa(config-network-object)# object network it-seg
ciscoasa(config-network-object)# nat (any,dmz) dynamic 172.16.0.254
ciscoasa(config-network-object)# _
Connected 0:02:00
Auto detect
9600 8-N-1
SCROLL
CAPS
NUM
Capture
Print echo


ASA - HyperTerminal
File Edit View Call Transfer Help
ciscoasa(config)# show running-config object
object network dmz-web-priv
 host 172.16.0.5
object network dmz-web-pub
 host 209.165.200.228
object network dmz-pat-outside
 host 209.165.200.230
object network dmz-https-priv
 host 172.16.0.15
object network inside-svr-pub
 host 209.165.200.231
object network inside-svr-priv
 host 10.0.0.10
object network inside-seg
 subnet 10.0.0.0 255.255.255.0
object network outside-nat-pool
 range 209.165.200.235 209.165.200.254
object network it-seg
 subnet 10.0.1.0 255.255.255.0
ciscoasa(config)# _
Connected 0:00:07
Auto detect
9600 8-N-1
SCROLL
CAPS
NUM
Capture
Print echo