

Security Configuration Benchmark For

Cisco Firewall VPN Services

Version 1.0.0 November 2011

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Overview

This document, Security Configuration Benchmark for Firewall VPN Services 1.0 provides prescriptive guidance for establishing a secure configuration posture for Cisco Firewalls versions 7.2 – 8.4 running on Cisco ASA. This guide was tested against Cisco ASA 8.4 installed by asa842-k8.bin. To obtain the latest version of this guide, please visit http://cisecurity.org. If you have questions, comments, or have identified ways to improve this guide, please write us at feedback@cisecurity.org.

Consensus Guidance

This benchmark was created using a consensus review process comprised of volunteer and contract subject matter experts. Consensus participants provide perspective from a diverse set of backgrounds including consulting, software development, audit and compliance, security research, operations, government, and legal.

Each CIS benchmark undergoes two phases of consensus review. The first phase occurs during initial benchmark development. During this phase, subject matter experts convene to discuss, create, and test working drafts of the benchmark. This discussion occurs until consensus has been reached on benchmark recommendations. The second phase begins after the benchmark has been released to the public Internet. During this phase, all feedback provided by the Internet community is reviewed by the consensus team for incorporation in to the CIS benchmark. If you are interested in participating in the consensus review process, please send us a note to feedback@cisecurity.org.

Intended Audience

This benchmark is intended for system and application administrators, security specialists, auditors, help desk, and platform deployment personnel who plan to develop, deploy, assess, or secure solutions that incorporate *Security Configuration Benchmark for Firewall VPN Services 1.0.0* on a Cisco ASA platform.

Acknowledgements

This benchmark exemplifies the great things a community of users, vendors, and subject matter experts can accomplish through consensus collaboration. The CIS community thanks the entire consensus team with special recognition to the following individuals who contributed greatly to the creation of this guide:

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Typographic Conventions

The following typographical conventions are used throughout this guide:

Convention	Meaning
Stylized Monospace font	Used for blocks of code, command, and script examples. Text should be interpreted exactly as presented.
Monospace font	Used for inline code, commands, or examples. Text should be interpreted exactly as presented.
<italic brackets="" font="" in=""></italic>	Italic texts set in angle brackets denote a variable requiring substitution for a real value.
Italic font	Used to denote the title of a book, article, or other publication.
Note	Additional information or caveats

Configuration Levels

This section defines the configuration levels that are associated with each benchmark recommendation. Configuration levels represent increasing levels of security assurance.

Level-I Benchmark settings/actions

Level-I Benchmark recommendations are intended to:

- be practical and prudent;
- provide a clear security benefit; and
- do not negatively inhibit the utility of the technology beyond acceptable means

Level-II Benchmark settings/actions

Level-II Benchmark recommendations exhibit one or more of the following characteristics:

- are intended for environments or use cases where security is paramount
- acts as defense in depth measure
- may negatively inhibit the utility or performance of the technology

Scoring Status

This section defines the scoring statuses used within this document. The scoring status indicates whether compliance with the given recommendation is discernible in an automated manner.

Scorable

The platform's compliance with the given recommendation can be determined via automated means.

Not Scorable

The platform's compliance with the given recommendation cannot be determined via automated means.

1. Recommendations

1.1 Remote Access IPSEC VPN (Levels 1 and 2, Scorable)

Description:

IPSEC is a common technology that is used to provide secure communication for remote workers over the public Internet.

Rationale:

Configuration of a remote access VPN should be accomplished in a manner that will provide maximum confidentiality and integrity for sensitive information.

Platform:

FW

Dependencies:

FW: None

1.1.1 Create an IKEv1 Policy (Level 1, Scorable)

Description:

Create a policy which defines the parameters for the IKE negotiation.

Rationale:

Ensure the use of sufficient encryption and hashing algorithms, RSA group, and authentication method to protect the IKE SA negotiation.

NOTE: This example only covers pre-shared key authentication. Cisco also offers several asynchronous measures as well.

Platform:

FW

Dependencies:

FW: None

Remediation:

Perform the following to configure the ISAKMP policy...

hostname(config) # crypto ikev1 policy priority

Audit:

Perform the following to determine IKEv1 policy configuration:

hostname# show crypto isakmp policy

Default Value:

There is no ISAKMP policy by default.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4

3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.1.1 Set IKEv1 Authentication type (Level 1, Scorable)

Description:

Set the authentication type for the ISAKMP exchange.

Rationale:

Cisco provides the ability to authenticate the ISAKMP exchange using a pre-shared key or through the use of public key infrastructure (PKI).

As not all organizations have a trusted, internal PKI infrastructure, the subsequent configurations in this guide uses pre-shared keys.

Platform:

FW

Dependencies:

FW: 1.1.1 Create an IKEv1 Policy

Remediation:

Perform the following to configure the encryption level...

```
hostname(config-ikev1-policy)) # authentication {crack | pre-share |
rsa-sig}
```

Audit:

Perform the following to determine if the encryption is set properly:

```
hostname# show crypto isakmp policy
```

Default Value:

There is no ISAKMP policy by default.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.1.2 Set IKEv1 Encryption Level (Level 1, Scorable)

Description:

Set the encryption level for IKE negotiation.

Rationale:

Ensure the encryption algorithm is sufficient to protect the IKE negotiation to the level necessary for the organization. AES128 or greater is recommended.

Platform:

FW

Dependencies:

FW: 1.1.1 Create an IKEv1 Policy

Remediation:

Perform the following to configure the encryption level...

```
hostname(config-ikev1-policy)# encryption
{aes | aes-192 | aes-256 | des | 3des}
```

Audit:

Perform the following to determine if the encryption is set properly:

```
hostname# show crypto isakmp policy
```

Default Value:

There is no ISAKMP policy by default.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.1.3 Set IKEv1 Hash (Level 1, Scorable)

Description:

Set the hash algorithm for ISAKMP.

Rationale:

Ensure the hash algorithm is sufficient to protect the IKE negotiation to the level necessary for the organization. SHA1 or greater is recommended.

Platform:

FW

Dependencies:

FW: 1.1.1 Create an IKEv1 Policy

Remediation:

Perform the following to configure the encryption level...

```
hostname(config-ikev1-policy)# hash {md5 | sha}
```

Audit:

Perform the following to determine if the hash algorithm is set properly:

```
hostname# show crypto isakmp policy
```

Default Value:

SHA1 is the default when not explicitly configured in an ISAKMP policy.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.1.4 Set IKEv1 Diffie-Hellman Group (Level 1, Scorable)

Description:

Set the Diffie-Hellman (DF) Group for the IKEv1 exchange.

- 1 Specifies the 768-bit DH group.
- 2 Specifies the 1024-bit DH group.
- 5 Specifies the 1536-bit DH group.

Rationale:

The DF should be sufficiently strong to protect the IPSec keys during the exchange. A minimum of Group 2 is recommended.

Platform:

FW

Dependencies:

FW: 1.1.1 Create an IKEv1 Policy

Remediation:

Perform the following to configure the encryption level...

```
hostname(config-ikev1-policy)# group
{1 | 2 | 5}
```

Audit:

Perform the following to determine if the hash algorithm is set properly:

```
hostname# show crypto isakmp policy
```

Default Value:

Group 1 is the default when not explicitly configured in the ISAKMP policy.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.1.5 Set the IKEv1 SA Lifetime (Level 1, Scorable)

Description:

Set the lifetime for the ISAKMP SA.

Rationale:

The lifetime determines when the IKE Security Association (SA) expires. Ensure to balance having a shorter expiration time to limit the exposure to attacks directed at the SA with a longer lifetime to limit the number IKE SA negotiation times.

Platform:

FW

Dependencies:

FW: 1.1.1 Create an IKEv1 Policy

Remediation:

Perform the following to configure the IKEv1 SA timeout...

```
hostname(config-ikev1-policy)# lifetime {seconds}
```

Audit:

Perform the following to determine if the hash algorithm is set properly:

```
hostname# show crypto isakmp policy
```

Default Value:

86,400 seconds is the default when not explicitly configured in the ISAKMP policy.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.1.6 Configure IKEv1 Transform Set (Level 1, Scorable)

Description:

Define the IKEv1 transform set.

Rationale:

The transform set specifies the IKEv1 encryption and hash mechanism to use in order to protect the IPSEC session establishment.

ESP using AES128 or greater is recommended.

Platform:

FW

Dependencies:

FW: None

Remediation:

Perform the following to configure the transform set...

```
hostname(config) # crypto ipsec ikev1 transform-set transform-set-name encryption-method [authentication]
```

Audit:

Perform the following to determine if the proposal is set properly:

```
hostname# show crypto ipsec transform-set
```

Default Value:

There is no transform set by default.

Additional References:

1. NSA Router Security Configuration Guide

- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.1.7 Configure the IKEv1 Interface (Level 1, Scorable)

Description:

Set the firewall interface used to perform the ISAKMP exchange.

Rationale:

An external interface must be configured to terminate VPN connections and respond to ISAKMP key exchanges. More than one interface may be chosen to support the VPN process.

Platform:

FW

Dependencies:

FW: 1.1.1 Create an IKEv1 Policy

Remediation:

Perform the following to configure the encryption level...

hostname(config) # crypto ikev1 enable interface-name

Audit:

Perform the following to determine if the hash algorithm is set properly:

hostname# show crypto isakmp policy

Default Value:

RSA signature authentication is the default when not explicitly configured in an ISAKMP policy.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.2 Create an IKEv2 Policy (Level 1, Scorable)

Description:

Create a policy which defines the parameters for the IKE negotiation.

Rationale:

Ensure the use of sufficient encryption and hashing algorithms, RSA group, and authentication method to protect the IKEv2 SA negotiation.

NOTE: This example only covers pre-shared key authentication. Cisco also offers several asynchronous measures as well.

Platform:

FW

Dependencies:

FW: None

Remediation:

Perform the following to configure the ISAKMP policy...

```
hostname(config)# crypto ikev2 policy priority
```

Audit:

Perform the following to determine IKEv1 policy configuration:

```
hostname# show crypto isakmp policy
```

Default Value:

There is no ISAKMP policy by default.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.2.1 Set IKEv2 Authentication type (Level 1, Scorable)

Description:

Set the authentication type for the IKEv2 exchange.

Rationale:

Cisco provides the ability to authenticate the ISAKMP exchange using a pre-shared key or through the use of public key infrastructure (PKI).

As not all organizations have a trusted, internal PKI infrastructure, the subsequent configurations in this guide uses pre-shared keys.

Platform:

FW

Dependencies:

FW: 1.1.1 Create an IKEv1 Policy

Remediation:

Perform the following to configure the encryption level...

```
hostname(config-ikev2-policy)) # authentication {crack | pre-share |
rsa-sig}
```

Audit:

Perform the following to determine if the encryption is set properly:

```
hostname# show crypto isakmp policy
```

Default Value:

There is no ISAKMP policy by default.

Additional References:

1. NSA Router Security Configuration Guide

- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.2.2 Set IKEv2 Encryption Level (Level 1, Scorable)

Description:

Set the encryption level for IKEv2 negotiation.

Rationale:

Ensure the encryption algorithm is sufficient to protect the IKE negotiation to the level necessary for the organization. AES128 or greater is recommended.

Platform:

FW

Dependencies:

FW: 1.1.1 Create an IKEv1 Policy

Remediation:

Perform the following to configure the encryption level...

```
hostname(config-ikev2-policy)# encryption
{aes | aes-192 | aes-256 | des | 3des}
```

Audit:

Perform the following to determine if the encryption is set properly:

```
hostname# show crypto isakmp policy
```

Default Value:

There is no ISAKMP policy by default.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.2.3 Set IKEv2 Hash (Level 1, Scorable)

Description:

Set the hash algorithm for ISAKMP.

Rationale:

Ensure the hash algorithm is sufficient to protect the IKE negotiation to the level necessary for the organization. SHA1 or greater is recommended.

Platform:

FW

Dependencies:

FW: 1.1.1 Create an IKEv1 Policy

Remediation:

Perform the following to configure the encryption level...

```
hostname(config-ikev2-policy)# hash {md5 | sha}
```

Audit:

Perform the following to determine if the hash algorithm is set properly:

```
hostname# show crypto isakmp policy
```

Default Value:

SHA1 is the default when not explicitly configured in an ISAKMP policy.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.2.4 Set IKEv2 Diffie-Hellman Group (Level 1, Scorable)

Description:

Set the Diffie-Hellman (DF) Group for the IKEv1 exchange.

- 1 Specifies the 768-bit DH group.
- 2 Specifies the 1024-bit DH group.
- 5 Specifies the 1536-bit DH group.

Rationale:

The DF should be sufficiently strong to protect the IPSec keys during the exchange. A minimum of Group 2 is recommended.

Platform:

FW

Dependencies:

FW: 1.1.1 Create an IKEv1 Policy

Remediation:

Perform the following to configure the encryption level...

```
hostname(config-ikev2-policy)# group
{1 | 2 | 5}
```

Audit:

Perform the following to determine if the hash algorithm is set properly:

```
hostname# show crypto isakmp policy
```

Default Value:

Group 1 is the default when not explicitly configured in the ISAKMP policy.

Additional References:

1. NSA Router Security Configuration Guide

- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.2.5 Set the IKEv2 SA Lifetime (Level 1, Scorable)

Description:

Set the lifetime for the ISAKMP SA.

Rationale:

The lifetime determines when the IKE Security Association (SA) expires. Ensure to balance having a shorter expiration time to limit the exposure to attacks directed at the SA with a longer lifetime to limit the number IKE SA negotiation times.

Platform:

FW

Dependencies:

FW: 1.1.1 Create an IKEv1 Policy

Remediation:

Perform the following to configure the IKEv1 SA timeout...

```
hostname(config-ikev2-policy)# lifetime
{seconds}
```

Audit:

Perform the following to determine if the hash algorithm is set properly:

```
hostname# show crypto isakmp policy
```

Default Value:

86,400 seconds is the default when not explicitly configured in the ISAKMP policy.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.2.6 Configure IKEv2 proposal (Level 1, Scorable)

Description:

Define the IKEv1 transform set.

Rationale:

The transform set specifies the IKEv2 encryption and hash mechanism to use in order to protect the IPSEC session establishment.

ESP using AES128 or greater is recommended.

Platform:

FW

Dependencies:

FW: None

Remediation:

Perform the following to configure the transform set...

```
hostname(config)# crypto ipsec ikev2 ipsec-proposal
proposal_name
```

Audit:

Perform the following to determine if the proposal is set properly:

```
hostname# show crypto ipsec transform-set
```

Default Value:

There is no transform set by default.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.2.7 Configure IKEv2 proposal encryption and integrity (Level 1, Scorable)

Description:

Define the IKEv1 transform set.

Rationale:

The transform set specifies the IKEv2 encryption and hash mechanism to use in order to protect the IPSEC session establishment.

ESP using AES128 or greater is recommended.

Platform:

FW

Dependencies:

FW: None

Remediation:

Perform the following to configure the transform set...

```
hostname(config-ipsec=proposal)# protocol {esp} {encryption {des | 3des | aes | aes-192 | aes-256 | null} | integrity {md5 | sha-1}
```

Audit:

Perform the following to determine if the proposal is set properly:

```
hostname# show crypto ipsec transform-set
```

Default Value:

There is no transform set by default.

Additional References:

1. NSA Router Security Configuration Guide

- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.2.8 Configure the IKEv2 Interface (Level 1, Scorable)

Description:

Set the firewall interface used to perform the IKEv2 exchange.

Rationale:

An external interface must be configured to terminate VPN connections and respond to IKEv2 key exchanges. More than one interface may be chosen to support the VPN process.

Platform:

FW

Dependencies:

FW: 1.1.1 Create an IKEv1 Policy

Remediation:

Perform the following to configure the encryption level...

hostname(config) # crypto ikev2 enable interface-name

Audit:

Perform the following to determine if the hash algorithm is set properly:

hostname# show crypto isakmp policy

Default Value:

RSA signature authentication is the default when not explicitly configured in an ISAKMP policy.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.3 Define the ISAKMP Key (Level 1, Scorable)

Description:

Define the ISAKMP pre-shared key that the peer's will use to authenticate each other.

Rationale:

Since this key controls authentication between peers, it is necessary to create a key of sufficient complexity to deter guessing.

NOTE: This key will show in clear-text in the configuration.

Platform:

FW

Dependencies:

FW: None

Remediation:

Perform the following to configure the ISAKMP key...

hostname(config) # crypto isakmp key <key string> <peer ip address>

Audit:

Perform the following to determine if the proposal is set properly:

hostname# show crypto isakmp key

Default Value:

There is no ISAKMP key set by default.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.4 Define the IPSEC Transform Set (Level 1, Scorable)

Description:

Define the IPSEC transform set.

Rationale:

The transform set specifies the IPSEC security protocol(s) and other algorithms and settings to apply to traffic protected by IPSEC.

ESP using AES128 or greater is recommended.

Platform:

FW

Dependencies:

FW: None

Remediation:

Perform the following to configure the transform set...

hostname(config)# crypto ipsec transform-set <transform_set_name>
{transform_option}

Audit:

Perform the following to determine if the proposal is set properly:

hostname# show crypto ipsec transform-set

Default Value:

There is no transform set by default.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.5 Define the Match ACL (Level 1, Scorable)

Description:

Define the ACL that the crypto map will use to determine which traffic to protect.

Rationale:

This is a required step to the crypto map process.

Platform:

FW

Dependencies:

FW: None

Remediation:

Perform the following to configure the global crypto peer IP...

```
hostname(config) # ip access-list extended <match_acl_name>
hostname(config-nacl) # permit ip <source_network> <source_network_mask>
<destination_network> <destination_network_mask>
```

Audit:

Perform the following to determine if the peer is set properly:

```
hostname# show ip access-list <match_acl_name>
```

Default Value:

There is no peer set by default.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.6 Define the Global Crypto Map (Level 1, Scorable)

Description:

Define the global crypto map.

Rationale:

The crypto map defines items such as which traffic to protect, IPSEC peers, transform sets, and key and SA management.

Platform:

FW

Dependencies:

FW: None

Remediation:

Perform the following to configure the global crypto map...

```
hostname(config)# crypto map <crypto_map_name> <sequence_number> ipsec-
isakmp
```

Audit:

Perform the following to determine if the proposal is set properly:

hostname# show crypto map

Default Value:

There is no transform set by default.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.6.1 Define the IPSEC Peer IP (Level 1, Scorable)

Description:

Define the global crypto map.

Rationale:

The transform

Platform:

FW

Dependencies:

FW: 1.1.6 Define the Global Crypto Map

Remediation:

Perform the following to configure the global crypto peer IP...

hostname(config-crypto-map) # set peer <peer ip address>

Audit:

Perform the following to determine if the peer is set properly:

hostname# show crypto map

Default Value:

There is no peer set by default.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.6.2 Define the IPSEC Transform Set (Level 1, Scorable)

Description:

Define the transform set.

Rationale:

The transform set

Platform:

FW

Dependencies:

FW: 1.1.6 Define the Global Crypto Map

Remediation:

Perform the following to configure the global crypto peer IP...

hostname(config-crypto-map) # set transform-set <transform set name>

Audit:

Perform the following to determine if the peer is set properly:

hostname# show crypto map

Default Value:

There is no transform set by default.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.6.3 Apply the IPSEC Match ACL (Level 1, Scorable)

Description:

Apply the ACL that the crypto map will use to determine which traffic to protect.

Rationale:

The transform

Platform:

FW

Dependencies:

FW: 1.1.5 Define the Match ACL

1.1.6 Define the Global Crypto Map

Remediation:

Perform the following to configure the global crypto peer IP...

hostname(config-crypto-map) # match address <match acl name>

Audit:

Perform the following to determine if the peer is set properly:

hostname# show crypto map

Default Value:

There is no match address set by default.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

1.1.7 Apply the Crypto Map to the Interface (Level 1, Scorable)

Description:

Configure the appropriate interface to activate IPSec protection.

Rationale:

The transform

Platform:

FW

Dependencies:

FW: 1.1.6 Define the Global Crypto Map

Remediation:

Perform the following to configure the global crypto peer IP...

hostname(config-if) # crypto map <crypto_map_name>

Audit:

Perform the following to determine if the peer is set properly:

hostname# sh int

Default Value:

There is no interface crypto map set by default.

Additional References:

- 1. NSA Router Security Configuration Guide
- 2. ASA 5500 Series Configuration Guide using the CLI 8.4
- 3. CIS Cisco ASA, FWSM, and PIX Benchmark v2.2.0

Remote Access SSL VPN (Levels 1 and 2, Scorable)

Description:

Rationale:

Platform:

FW

Dependencies:

FW: None

Appendix A: References

- 1. National Security Agency (2009). NSA Router Security Configuration Guide. http://www.nsa.gov/ia/files/routers/C4-040R-02.pdf. Last accessed November 9, 2010.
- 2. United States Department of Justice (2009). US Department of Justice Cybercrime Appendix A Sample Network Login Banner. http://www.cybercrime.gov/ssmanual/06ssma.html#AppA. Last accessed November 9, 2010.
- 3. Cisco ASA 5500 Series Configuration Guide using the CLI, 8.2 <a href="http://www.cisco.com/en/US/docs/security/asa/asa82/configuration/guide/co

Appendix B: Change History

Date	Version	Changes for this version
November 18, 2011	1.0.0-A1	Initial draft