Configuración de la Autenticación Pasiva con el Inicio de Sesión de VPN de Acceso Remoto en Firepower Device Manager

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Introducción

Este documento describe cómo configurar la autenticación pasiva en Firepower Threat Defense (FTD) a través de Firepower Device Manager (FDM) con inicios de sesión de VPN de acceso remoto (RA VPN) con AnyConnect.

Prerequisites

Requirements

Cisco recomienda que tenga conocimiento sobre estos temas:

- Administrador de dispositivos Firepower.
- VPN de acceso remoto.
- Política de identidad.

Componentes Utilizados

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

- Firepower Threat Defense (FTD) versión 7.0
- Cisco AnyConnect Secure Mobility Client versión 4.10
- Active Directory (AD)

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

Antecedentes

La política de identidad puede detectar usuarios asociados a una conexión. El método utilizado es la autenticación pasiva, ya que la identidad del usuario se obtiene de otros servicios de autenticación (LDAP).

En FDM, la autenticación pasiva puede funcionar con dos opciones diferentes:

- · Inicio de sesión de VPN de acceso remoto
- Cisco Identity Services Engine (ISE)

Configuración

Diagrama de la red



Remote user

Esta sección describe cómo configurar la autenticación pasiva en FDM.

Paso 1. Configurar el origen de identidad

Tanto si recopila la identidad del usuario de forma activa (mediante la solicitud de autenticación del usuario) como pasiva, debe configurar el servidor de Active Directory (AD) que tiene la información de identidad del usuario.

Navegue hasta > Identity Services y seleccione la opción ADpara agregar Active Directory.

Agregue la configuración de Active Directory:

Identity Realm is used for Identity Policies and Remote Access VPN. Any changes impact all features that use this realm.

Name	Туре	
AnyConnect_LDAP	Active Directory (AD)	~
Directory Username	Directory Password	
brazil		
e.g. user@example.com		
Base DN	AD Primary Domain	
CN=Users,dc=cmonterr,dc=local	cmonterr.local	
e.g. ou=user, dc=example, dc=com	e.g. example.com	
Directory Server Configuration		
192.168.26.202:389		Test 💌
Add another configuration		
	0.11.07	
	CANCEL	ОК

Paso 2. Configuración de RA VPN

La configuración de VPN de acceso remoto se puede revisar en este link

Paso 3. Configure el Método de Autenticación para los Usuarios de VPN de RA

En la configuración de RA VPN, seleccione el método de autenticación. El origen de integridad principal para la autenticación de usuario debe ser el AD.

Primary Identity Source	
Authentication Type	
AAA Only 🗸	
Primary Identity Source for User Authentication	Fallback Local Identity Source 🔔
AnyConnect_LDAP ~	LocalldentitySource ~
Strip Identity Source server from username	
Strip Group from Username	

Nota: En la configuración global de la VPN RA, desmarque la opción Omitir política de

control de acceso para el tráfico descifrado (**sysopt permit-vpn**) para permitir la posibilidad de utilizar la política de control de acceso para inspeccionar el tráfico que proviene de los usuarios de AnyConnect.

Certificate of Device Identity	Outside Interface	
AnyConnect_VPN ~	outside (GigabitEthe	ernet0/0) 🗸
Fully-qualified Domain Name for the Outside Interf	ace	Port
fdm.ravpn		443
e.g. ravpn.example.com		e.g. 8080
Bypass Access Control policy for decrypted traffic option bypasses the access control management of the authorization ACL downloaded from the AAA server Bypass Access Control policy for decrypted traffic and the authorization ACL downloaded from the AAA server NAT Exempt Discrete traffic and the access VPN users can connect to the internal networks +	Inside Networks The internal networks remulations pools must m both.	ote access VPN users are sions of the internal networks natch, either IPv4, IPv6, or
inside (GigabitEthernet0/1)	Ŧ	
	FDM_Local_network	¢

Paso 4. Configuración de la Política de Identidad para la Autenticación Pasiva

Debe crear la política de identidad para configurar la autenticación pasiva, la política debe tener los siguientes elementos:

- Origen de identidad de AD: Lo mismo que agrega en el paso número 1
- Acción: AUTENTICACIÓN PASIVA

Para configurar la regla de identidad, navegue hasta **Políticas>Identidad >**seleccione **[+]** para agregar una nueva regla de identidad.

• Defina las subredes de origen y de destino donde se aplica la autenticación pasiva.

Order Title 1 V AnyConnect	AD Identity Source	Action Passive Auth	PASSIVE AUTHEN For all types of con authentication serv	ITICATION inections, obtain user identity from o ices without prompting for usernam	other le and password.
Source / Destination			With Identity Source	es 🆛 Anyconnect	
SOURCE		DESTINATION			
Zones + Networks	+ Ports	+ Zones	+ Networks	+ Ports	+
ANY ANY	ANY	ANY	ANY	ANY	

Paso 5. Crear la regla de control de acceso en la política de control de acceso

Configure la regla de control de acceso para permitir o bloquear el tráfico en función de los usuarios.

Г				SOURCE			DESTINATION							
L	н	NAME	ACTION	ZONES	NETWORKS	PORTS	ZONES	NETWORKS	PORTS	APPLICATIONS	URLS	USERS		ACTIONS
>	1	Inside_Outside	→ Allow	inside_zone	ANY	ANY	outside_zone	ANY	ANY	ANY	ANY	brazil	S. C.	

Para configurar el grupo de usuarios para que tenga autenticación pasiva, seleccione la ficha Usuarios. Puede agregar un grupo de usuarios o un usuario individual.

Order Title	Action	
1 V Inside_Outside_Rule	Allow Y	
Source/Destination Applications URLs	Users Intrusion Policy File policy	Logging
AVAILABLE USERS	±	1 CONTROLLING ACCESS FOR USERS AND USER GROUPS
▼ Filter		If you configure identity policies to establish user identity based on source IP address, you can control access based on user name or user group membership. By controlling access based on user identity, you can apoly the appropriate access controls whether the user changes
Identity Sources Groups Users		workstations or obtains a different address through DHCP. If you base rules on group membership, user network access changes as users change roles in your organization, moving
AnyConnect_LDAP \ administrator	A	from one group to another.
📀 🧘 AnyConnect_LDAP \ brazil		
AnyConnect_LDAP \ calo-maintenance		

Implemente los cambios.

Verificación

Verifique que la conexión de prueba con AD sea correcta

Identity Realm is used for Identity Policies and Remote this realm.	Access VPN. Any changes impact all features that use
Name	Туре
AnyConnect_LDAP	Active Directory (AD)
Directory Username	Directory Password
brazil	
e.g. user@example.com	
Base DN	AD Primary Domain
CN=Users,dc=cmonterr,dc=local	cmonterr.local
e.g. ou=user, dc=example, dc=com	e.g. example.com
Directory Server Configuration	
192.168.26.202:389	*
Hostname / IP Address	Port
192.168.26.202	389
e.g. ad.example.com	
Interface	
inside (GigabitEthernet0/1) ~	
Encryption	Trusted CA certificate
NONE ~	Please select a certificate
TEST ✓ Connection to realm is successful Add another configuration	1
	CANCEL

Verifique que el usuario remoto pueda iniciar sesión con el cliente AnyConnect con sus credenciales de AD.

3	Cisco Ang	yConnect 192.168.27.44
	Group: Username: Password:	Anyconnect V brazil
		OK Cancel
🕙 Cisco	o AnyConneo	ct Secure Mobility Client 🗕 🗖 🗙

	VPN: Connected to 192.168.27.44. 192.168.27.44	~	Disconnect
00:00:58			IPv4
\$ (i)			allala cisco

Verifique que el usuario obtenga una dirección IP del conjunto VPN

firepower# sho	ow vpn-sessiondb anyconn	ect filter nam	me brazi	1
Session Type:	AnyConnect			
Username Assigned IP Protocol License Encryption Hashing Bytes Tx	: brazil : 192.168.19.1 : AnyConnect-Parent SSL- : AnyConnect Premium : AnyConnect-Parent: (1) : AnyConnect-Parent: (1) : 15818	Index Public IP Tunnel none SSL-Tunn none SSL-Tunn Bytes Rx	: 23 : 192.1 nel: (1) nel: (1) : 2494	.68.27.40 AES-GCM-256 SHA384
Group Policy : Login Time : Duration : Inactivity :	DfltGrpPolicy 13:22:20 UTC Wed Jul 2 0h:00m:13s 0h:00m:00s	Tunnel Group 1 2021	: Anyco	nnect
VLAN Mapping : Audt Sess ID :	: N/A : 000000000001700060f81f;	VLAN 8c	: none	
Security Grp : firepower#	none	Tunnel Zone	: 0	

Troubleshoot

Puede utilizar el **user_map_query.**plscript para validar que el FDM tiene la asignación ip de usuario

En el modo clish puede configurar:

system support identity- debugpara verificar si la redirección es correcta.

```
> system support identity-debug
Enable firewall-engine-debug too? [n]: y
Please specify an IP protocol:
Please specify a client IP address: 192.168.19.1
Please specify a client port:
Please specify a server IP address:
Please specify a server port:
Monitoring identity and firewall debug messages
192.168.19.1-62757 > 72.163.47.11-53 17 AS 1-1 I 0 Starting authentication (sfAuthCheckRules
params) with zones 2 -> 2, port 62757 -> 53, geo 14467064 -> 14467082
192.168.19.1-62757 > 72.163.47.11-53 17 AS 1-1 I 0 Retrieved ABP info:
192.168.19.1-62757 > 72.163.47.11-53 17 AS 1-1 I 0 abp src
192.168.19.1-62757 > 72.163.47.11-53 17 AS 1-1 I 0 abp dst
192.168.19.1-62757 > 72.163.47.11-53 17 AS 1-1 I 0 matched auth rule id = 130027046 user_id = 5
realm_id = 3
192.168.19.1-62757 > 72.163.47.11-53 17 AS 1-1 I 0 new firewall session
192.168.19.1-62757 > 72.163.47.11-53 17 AS 1-1 I 0 using HW or preset rule order 2,
'Inside_Outside_Rule', action Allow and prefilter rule 0
192.168.19.1-62757 > 72.163.47.11-53 17 AS 1-1 I 0 HitCount data sent for rule id: 268435458,
192.168.19.1-62757 > 72.163.47.11-53 17 AS 1-1 I 0 allow action
192.168.19.1-62757 > 8.8.8.8-53 17 AS 1-1 I 1 Starting authentication (sfAuthCheckRules params)
with zones 2 -> 2, port 62757 -> 53, geo 14467064 -> 14467082
192.168.19.1-62757 > 8.8.8-53 17 AS 1-1 I 1 Retrieved ABP info:
192.168.19.1-62757 > 8.8.8.8-53 17 AS 1-1 I 1 abp src
192.168.19.1-62757 > 8.8.8.8-53 17 AS 1-1 I 1 abp dst
192.168.19.1-62757 > 8.8.8.8-53 17 AS 1-1 I 1 matched auth rule id = 130027046 user_id = 5
realm id = 3
192.168.19.1-62757 > 8.8.8.8-53 17 AS 1-1 I 1 new firewall session
192.168.19.1-62757 > 8.8.8.8-53 17 AS 1-1 I 1 using HW or preset rule order 2,
'Inside_Outside_Rule', action Allow and prefilter rule 0
192.168.19.1-62757 > 8.8.8.8-53 17 AS 1-1 I 1 HitCount data sent for rule id: 268435458,
192.168.19.1-62757 > 8.8.8.8-53 17 AS 1-1 I 1 allow action
192.168.19.1-53015 > 20.42.0.16-443 6 AS 1-1 I 0 Starting authentication (sfAuthCheckRules
params) with zones 2 -> 2, port 53015 -> 443, geo 14467064 -> 14467082
192.168.19.1-53015 > 20.42.0.16-443 6 AS 1-1 I 0 Retrieved ABP info:
192.168.19.1-53015 > 20.42.0.16-443 6 AS 1-1 I 0 abp src
192.168.19.1-53015 > 20.42.0.16-443 6 AS 1-1 I 0 abp dst
192.168.19.1-53015 > 20.42.0.16-443 6 AS 1-1 I 0 matched auth rule id = 130027046 user_id = 5
realm_id = 3
192.168.19.1-53015 > 20.42.0.16-443 6 AS 1-1 I 0 new firewall session
192.168.19.1-53015 > 20.42.0.16-443 6 AS 1-1 I 0 using HW or preset rule order 2,
'Inside_Outside_Rule', action Allow and prefilter rule 0
192.168.19.1-53015 > 20.42.0.16-443 6 AS 1-1 I 0 HitCount data sent for rule id: 268435458,
192.168.19.1-53015 > 20.42.0.16-443 6 AS 1-1 I 0 allow action
192.168.19.1-52166 > 20.42.0.16-443 6 AS 1-1 I 1 deleting firewall session flags = 0x10001,
fwFlags = 0x102, session->logFlags = 010001
192.168.19.1-65207 > 72.163.47.11-53 17 AS 1-1 I 1 Starting authentication (sfAuthCheckRules
params) with zones 2 -> 2, port 65207 -> 53, geo 14467064 -> 14467082
192.168.19.1-65207 > 72.163.47.11-53 17 AS 1-1 I 1 Retrieved ABP info:
192.168.19.1-65207 > 72.163.47.11-53 17 AS 1-1 I 1 abp src
192.168.19.1-65207 > 72.163.47.11-53 17 AS 1-1 I 1 abp dst
192.168.19.1-65207 > 72.163.47.11-53 17 AS 1-1 I 1 matched auth rule id = 130027046 user_id = 5
realm_id = 3
192.168.19.1-65207 > 72.163.47.11-53 17 AS 1-1 I 1 new firewall session
192.168.19.1-65207 > 72.163.47.11-53 17 AS 1-1 I 1 using HW or preset rule order 2,
'Inside_Outside_Rule', action Allow and prefilter rule 0
192.168.19.1-65207 > 72.163.47.11-53 17 AS 1-1 I 1 HitCount data sent for rule id: 268435458,
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192.168.19.1-65207 > 72.163.47.11-53 17 AS 1-1 I 1 allow action
192.168.19.1-65207 > 8.8.8.8-53 17 AS 1-1 I 0 Starting authentication (sfAuthCheckRules params)
with zones 2 -> 2, port 65207 -> 53, geo 14467064 -> 14467082
192.168.19.1-65207 > 8.8.8-53 17 AS 1-1 I 0 Retrieved ABP info:
192.168.19.1-65207 > 8.8.8.8-53 17 AS 1-1 I 0 abp src
192.168.19.1-65207 > 8.8.8.8-53 17 AS 1-1 I 0 abp dst
192.168.19.1-65207 > 8.8.8.8-53 17 AS 1-1 I 0 matched auth rule id = 130027046 user_id = 5
realm_id = 3
192.168.19.1-65207 > 8.8.8.8-53 17 AS 1-1 I 0 new firewall session
192.168.19.1-65207 > 8.8.8.8-53 17 AS 1-1 I 0 using HW or preset rule order 2,
'Inside_Outside_Rule', action Allow and prefilter rule 0
192.168.19.1-65207 > 8.8.8.8-53 17 AS 1-1 I 0 HitCount data sent for rule id: 268435458,
192.168.19.1-65207 > 8.8.8.8-53 17 AS 1-1 I 0 allow action
192.168.19.1-65209 > 8.8.8.8-53 17 AS 1-1 I 0 Starting authentication (sfAuthCheckRules params)
with zones 2 -> 2, port 65209 -> 53, geo 14467064 -> 14467082
192.168.19.1-65209 > 8.8.8-53 17 AS 1-1 I 0 Retrieved ABP info:
192.168.19.1-65209 > 8.8.8.8-53 17 AS 1-1 I 0 abp src
192.168.19.1-65209 > 8.8.8.8-53 17 AS 1-1 I 0 abp dst
192.168.19.1-65209 > 8.8.8.8-53 17 AS 1-1 I 0 matched auth rule id = 130027046 user_id = 5
realm_id = 3
192.168.19.1-65209 > 8.8.8.8-53 17 AS 1-1 I 0 new firewall session
192.168.19.1-65209 > 8.8.8.8-53 17 AS 1-1 I 0 using HW or preset rule order 2,
'Inside_Outside_Rule', action Allow and prefilter rule 0
192.168.19.1-65209 > 8.8.8.8-53 17 AS 1-1 I 0 HitCount data sent for rule id: 268435458,
192.168.19.1-65209 > 8.8.8.8-53 17 AS 1-1 I 0 allow action
192.168.19.1-65211 > 72.163.47.11-53 17 AS 1-1 I 1 Starting authentication (sfAuthCheckRules
params) with zones 2 -> 2, port 65211 -> 53, geo 14467064 -> 14467082
192.168.19.1-65211 > 72.163.47.11-53 17 AS 1-1 I 1 Retrieved ABP info:
192.168.19.1-65211 > 72.163.47.11-53 17 AS 1-1 I 1 abp src
192.168.19.1-65211 > 72.163.47.11-53 17 AS 1-1 I 1 abp dst
192.168.19.1-65211 > 72.163.47.11-53 17 AS 1-1 I 1 matched auth rule id = 130027046 user_id = 5
realm_id = 3
192.168.19.1-65211 > 72.163.47.11-53 17 AS 1-1 I 1 new firewall session
192.168.19.1-65211 > 72.163.47.11-53 17 AS 1-1 I 1 using HW or preset rule order 2,
'Inside_Outside_Rule', action Allow and prefilter rule 0
192.168.19.1-65211 > 72.163.47.11-53 17 AS 1-1 I 1 HitCount data sent for rule id: 268435458,
192.168.19.1-65211 > 72.163.47.11-53 17 AS 1-1 I 1 allow action
192.168.19.1-61823 > 72.163.47.11-53 17 AS 1-1 I 1 Starting authentication (sfAuthCheckRules
params) with zones 2 -> 2, port 61823 -> 53, geo 14467064 -> 14467082
192.168.19.1-61823 > 72.163.47.11-53 17 AS 1-1 I 1 Retrieved ABP info:
192.168.19.1-61823 > 72.163.47.11-53 17 AS 1-1 I 1 abp src
192.168.19.1-61823 > 72.163.47.11-53 17 AS 1-1 I 1 abp dst
192.168.19.1-61823 > 72.163.47.11-53 17 AS 1-1 I 1 matched auth rule id = 130027046 user_id = 5
realm_id = 3
192.168.19.1-61823 > 72.163.47.11-53 17 AS 1-1 I 1 new firewall session
192.168.19.1-61823 > 72.163.47.11-53 17 AS 1-1 I 1 using HW or preset rule order 2,
'Inside_Outside_Rule', action Allow and prefilter rule 0
192.168.19.1-61823 > 72.163.47.11-53 17 AS 1-1 I 1 HitCount data sent for rule id: 268435458,
192.168.19.1-61823 > 72.163.47.11-53 17 AS 1-1 I 1 allow action
192.168.19.1-61823 > 8.8.8.8-53 17 AS 1-1 I 0 Starting authentication (sfAuthCheckRules params)
with zones 2 -> 2, port 61823 -> 53, geo 14467064 -> 14467082
192.168.19.1-61823 > 8.8.8-53 17 AS 1-1 I 0 Retrieved ABP info:
192.168.19.1-61823 > 8.8.8.8-53 17 AS 1-1 I 0 abp src
192.168.19.1-61823 > 8.8.8.8-53 17 AS 1-1 I 0 abp dst
192.168.19.1-61823 > 8.8.8.8-53 17 AS 1-1 I 0 matched auth rule id = 130027046 user_id = 5
realm_id = 3
192.168.19.1-61823 > 8.8.8-53 17 AS 1-1 I 0 new firewall session
192.168.19.1-61823 > 8.8.8.8-53 17 AS 1-1 I 0 using HW or preset rule order 2,
'Inside_Outside_Rule', action Allow and prefilter rule 0
192.168.19.1-61823 > 8.8.8.8-53 17 AS 1-1 I 0 HitCount data sent for rule id: 268435458,
192.168.19.1-61823 > 8.8.8.8-53 17 AS 1-1 I 0 allow action
192.168.19.1-57747 > 72.163.47.11-53 17 AS 1-1 I 1 deleting firewall session flags = 0x10001,
fwFlags = 0x102, session->logFlags = 010001
192.168.19.1-57747 > 72.163.47.11-53 17 AS 1-1 I 1 Logging EOF as part of session delete with
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```
rule_id = 268435458 ruleAction = 2 ruleReason = 0
192.168.19.1-57747 > 8.8.8.8-53 17 AS 1-1 I 0 deleting firewall session flags = 0x10001, fwFlags
= 0x102, session->logFlags = 010001
192.168.19.1-57747 > 8.8.8.8-53 17 AS 1-1 I 0 Logging EOF as part of session delete with rule_id
= 268435458 ruleAction = 2 ruleReason = 0
192.168.19.1-53038 > 20.42.0.16-443 6 AS 1-1 I 0 Starting authentication (sfAuthCheckRules
params) with zones 2 -> 2, port 53038 -> 443, geo 14467064 -> 14467082
192.168.19.1-53038 > 20.42.0.16-443 6 AS 1-1 I 0 Retrieved ABP info:
192.168.19.1-53038 > 20.42.0.16-443 6 AS 1-1 I 0 abp src
192.168.19.1-53038 > 20.42.0.16-443 6 AS 1-1 I 0 abp dst
192.168.19.1-53038 > 20.42.0.16-443 6 AS 1-1 I 0 matched auth rule id = 130027046 user_id = 5
realm_id = 3
192.168.19.1-53038 > 20.42.0.16-443 6 AS 1-1 I 0 new firewall session
192.168.19.1-53038 > 20.42.0.16-443 6 AS 1-1 I 0 using HW or preset rule order 2,
'Inside_Outside_Rule', action Allow and prefilter rule 0
192.168.19.1-53038 > 20.42.0.16-443 6 AS 1-1 I 0 HitCount data sent for rule id: 268435458,
192.168.19.1-53038 > 20.42.0.16-443 6 AS 1-1 I 0 allow action
192.168.19.1-57841 > 72.163.47.11-53 17 AS 1-1 I 1 deleting firewall session flags = 0x10001,
fwFlags = 0x102, session->logFlags = 010001
192.168.19.1-57841 > 72.163.47.11-53 17 AS 1-1 I 1 Logging EOF as part of session delete with
rule_id = 268435458 ruleAction = 2 ruleReason = 0
192.168.19.1-57841 > 8.8.8.8-53 17 AS 1-1 I 0 deleting firewall session flags = 0x10001, fwFlags
= 0x102, session->logFlags = 010001
192.168.19.1-57841 > 8.8.8.8-53 17 AS 1-1 I 0 Logging EOF as part of session delete with rule_id
= 268435458 ruleAction = 2 ruleReason = 0
192.168.19.1-64773 > 8.8.8.8-53 17 AS 1-1 I 0 Starting authentication (sfAuthCheckRules params)
with zones 2 -> 2, port 64773 -> 53, geo 14467064 -> 14467082
192.168.19.1-64773 > 8.8.8-53 17 AS 1-1 I 0 Retrieved ABP info:
192.168.19.1-64773 > 8.8.8.8-53 17 AS 1-1 I 0 abp src
192.168.19.1-64773 > 8.8.8.8-53 17 AS 1-1 I 0 abp dst
192.168.19.1-64773 > 8.8.8.8-53 17 AS 1-1 I 0 matched auth rule id = 130027046 user_id = 5
realm id = 3
192.168.19.1-64773 > 8.8.8-53 17 AS 1-1 I 0 new firewall session
192.168.19.1-64773 > 8.8.8.8-53 17 AS 1-1 I 0 using HW or preset rule order 2,
'Inside_Outside_Rule', action Allow and prefilter rule 0
192.168.19.1-64773 > 8.8.8.8-53 17 AS 1-1 I 0 HitCount data sent for rule id: 268435458,
192.168.19.1-64773 > 8.8.8.8-53 17 AS 1-1 I 0 allow action
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Información Relacionada

Configuración de VPN de acceso remoto en FTD administrado por FDM https://www.cisco.com/c/en/us/support/docs/security/anyconnect-secure-mobility-client/215532configure-remote-access-vpn-on-ftd-manag.html