

Configurar e solucionar problemas do WCCP no FTD usando o modelo predefinido

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Introdução

Este documento descreve as etapas de configuração e Troubleshooting para WCCP no FTD.

Pré-requisitos

Requisitos

A Cisco recomenda que você tenha conhecimento destes tópicos:

- Protocolo de Comunicação de Cache de Web (WCCP - Web Cache Communications Protocol) versão 2 (v2)
- Firepower Management Center (FMC)
- Firepower Threat Defense (FTD)

Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

- Centro de gerenciamento seguro de firewall (FMCv) v7.4.2
- Defesa contra ameaças de firewall seguroVirtual(FTDv) v7.4.2

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a rede estiver ativa, certifique-se de que você entenda o impacto potencial de qualquer comando.

Configurar

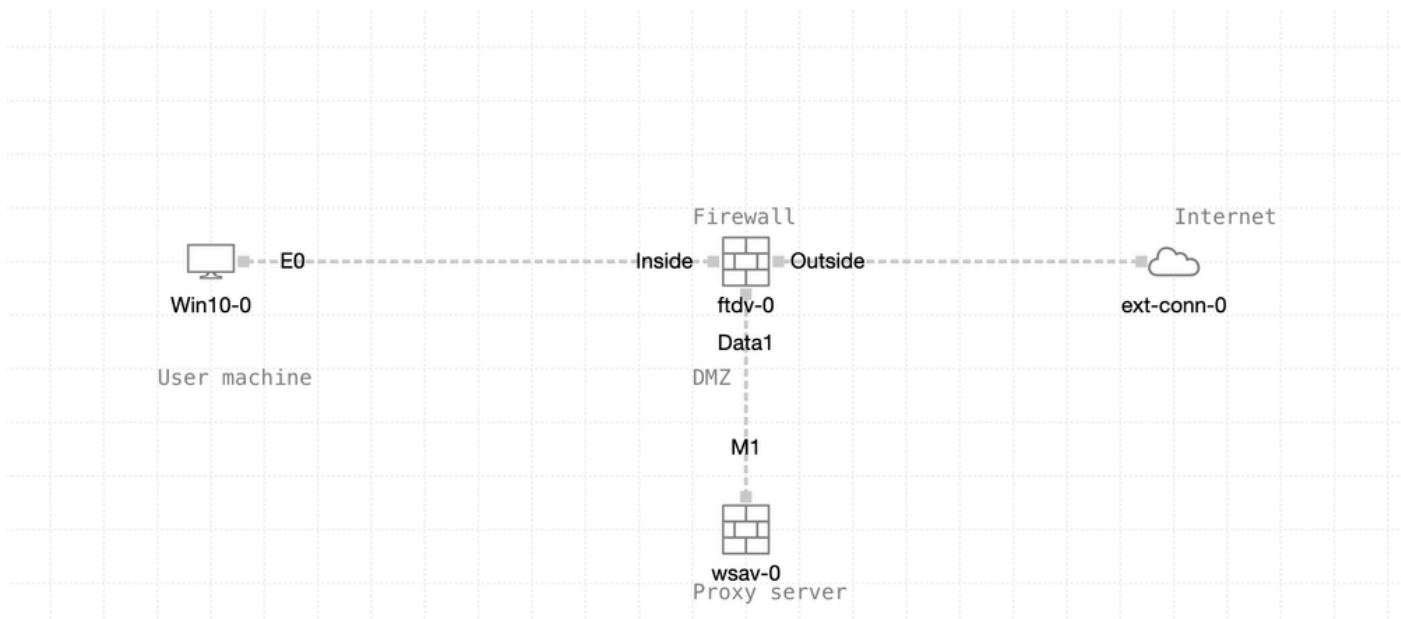
O Protocolo de Comunicação de Cache de Web (WCCP - Web Cache Communication Protocol) é usado para redirecionar o tráfego da Web para um servidor de cache. Geralmente, é implementado em dispositivos de rede, como roteadores e firewalls da Cisco, para redirecionar HTTP, HTTPS e FTD sobre solicitações HTTP para um servidor proxy.

O WCCP está disponível em diferentes versões, incluindo WCCP v1, v2 e v3, com cada versão oferecendo recursos e escalabilidade avançados.

Como funciona

- O computador do usuário Win10-0 faz uma solicitação HTTPS.
- Aqui, o Firewall FTD é o gateway para o PC do usuário. Ele recebe a solicitação HTTP/HTTPS.
- O FTD entende que a porta de destino é 443 e redireciona o tráfego para DMZ
- O DMZ encapsula o pacote com GRE e encaminha a solicitação ao servidor Proxy.
- O servidor proxy examina o cache ou inicia uma nova conexão com o servidor original e responde diretamente à máquina do usuário.

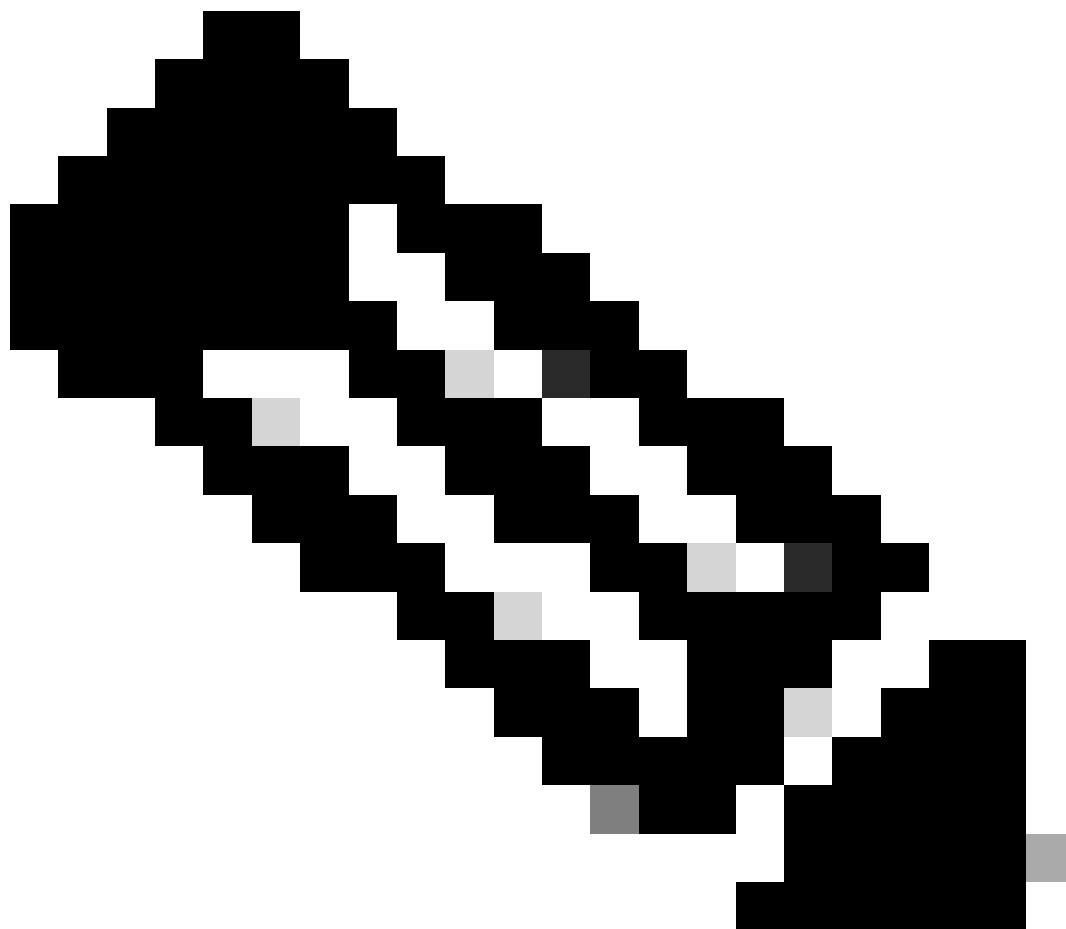
Diagrama de Rede



Topologia de rede

Configurações

Estas etapas demonstram a configuração do WCCP no FMC. O tráfego com as portas 80 e 443 deve ser redirecionado da zona Inside para a zona DMZ.



Note: O documento descreve as etapas para service-id dinâmico. As informações de porta foram obtidas do cliente WCCP.

Passo 1: Faça login na GUI do FMC e navegue para Object > Object Management > Access List > Extended >Add Extended Access List.

Crie duas listas de acesso estendidas.

1) Crie uma lista de acesso para redirecionar o tráfego do usuário e clique em Salvar.

Edit Extended Access List Object

Name

Redirect_traffic

Entries (3)

Add

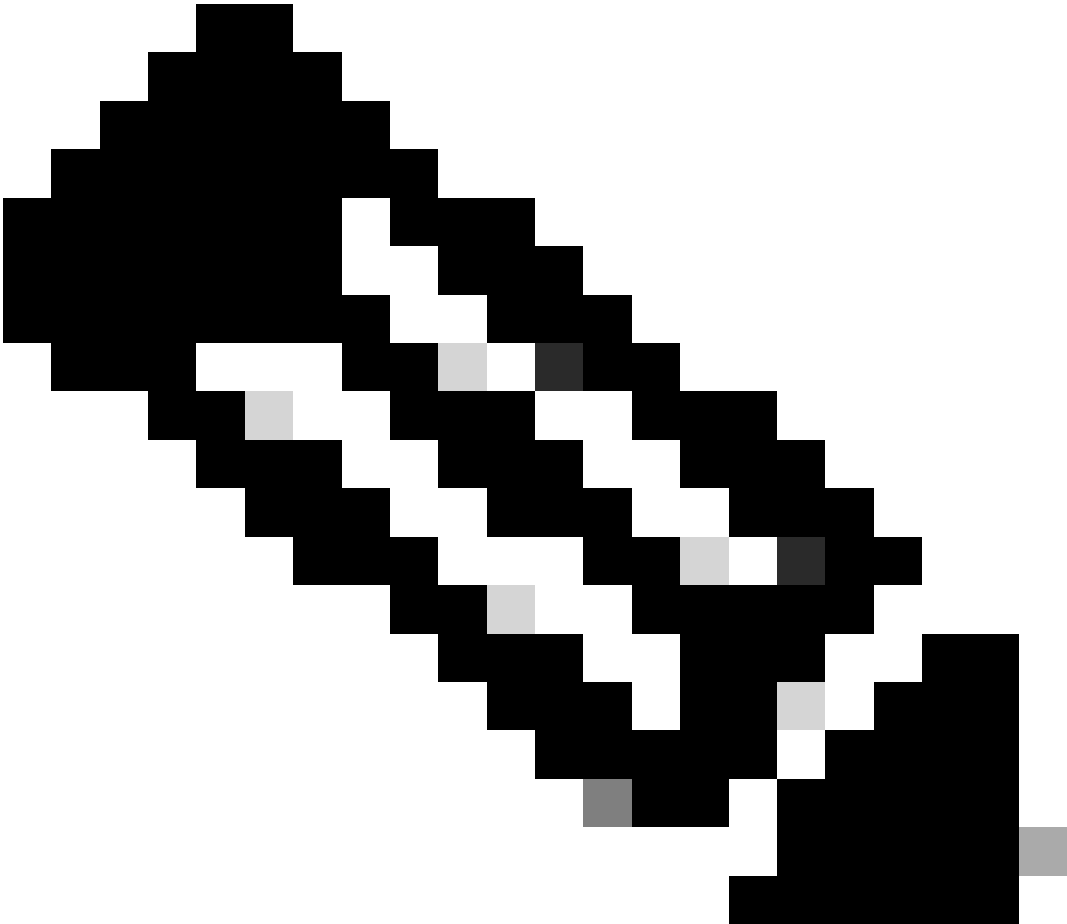
Sequence	Action	Source	Source Port	Destination	Destination Port	Application	Users	SGT	
1	Block	WSA_server	Any	Any	Any	Any	Any	Any	
2	Block	Any	Any	user_LAN	Any	Any	Any	Any	
3	Allow	Any	Any	Any	Any	Any	Any	Any	

☐ Allow Overrides

Cancel

Save

Redirecionar tráfego do usuário



Note: Esta lista de acesso garante que você tenha Bloqueio de ação para o tráfego que vem do cliente WCCP em direção ao FTD para evitar o loop na rede.

Além disso, você pode criar outra instrução com Action Block para garantir que a comunicação entre hosts internos não seja enviada ao servidor proxy.

A instrução final deve permitir todos os outros tráfegos qualificados para redirecionamento para o proxy.

2) Crie uma lista de acesso para identificar o cliente WCCP e clique em Save.

Name

WCCP-CLIENT

Entries (1)

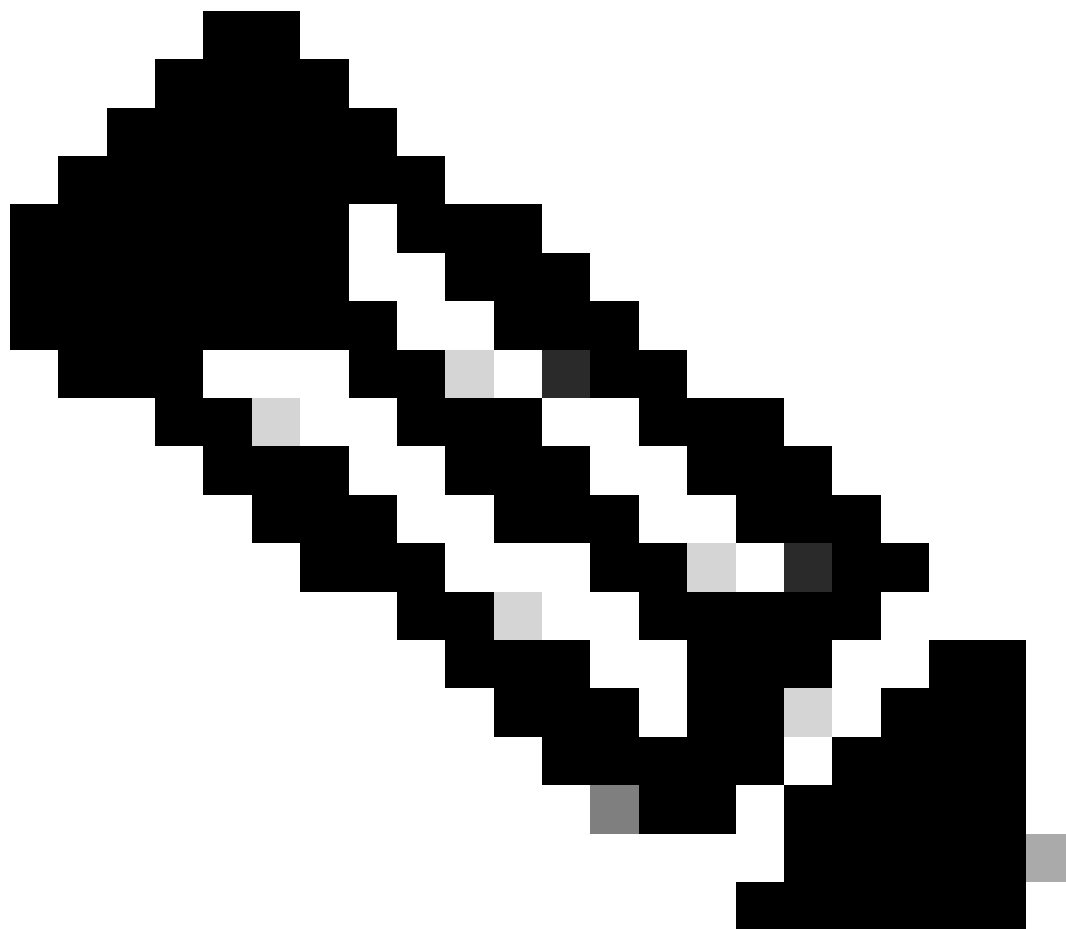
Add

Sequence	Action	Source	Source Port	Destination	Destination Port	Application	Users	SGT	
1	 Allow	WSA_server	Any	Any	Any	Any	Any	Any	 

☐ Allow Overrides

CancelSave

Lista de acesso para identificar o cliente WCCP



Note: Configuração de uma lista de acesso estendida para incluir os endereços IP do servidor WCCP.

Etapa 2: Navegue até Object > Object Management > FlexConfig > Text Object > Add Text Object para adicionar o serviço WCCP e Save.

Edit Text Object



Name:

wccp-service-object

Description:

Variable Type

Single

Count

1

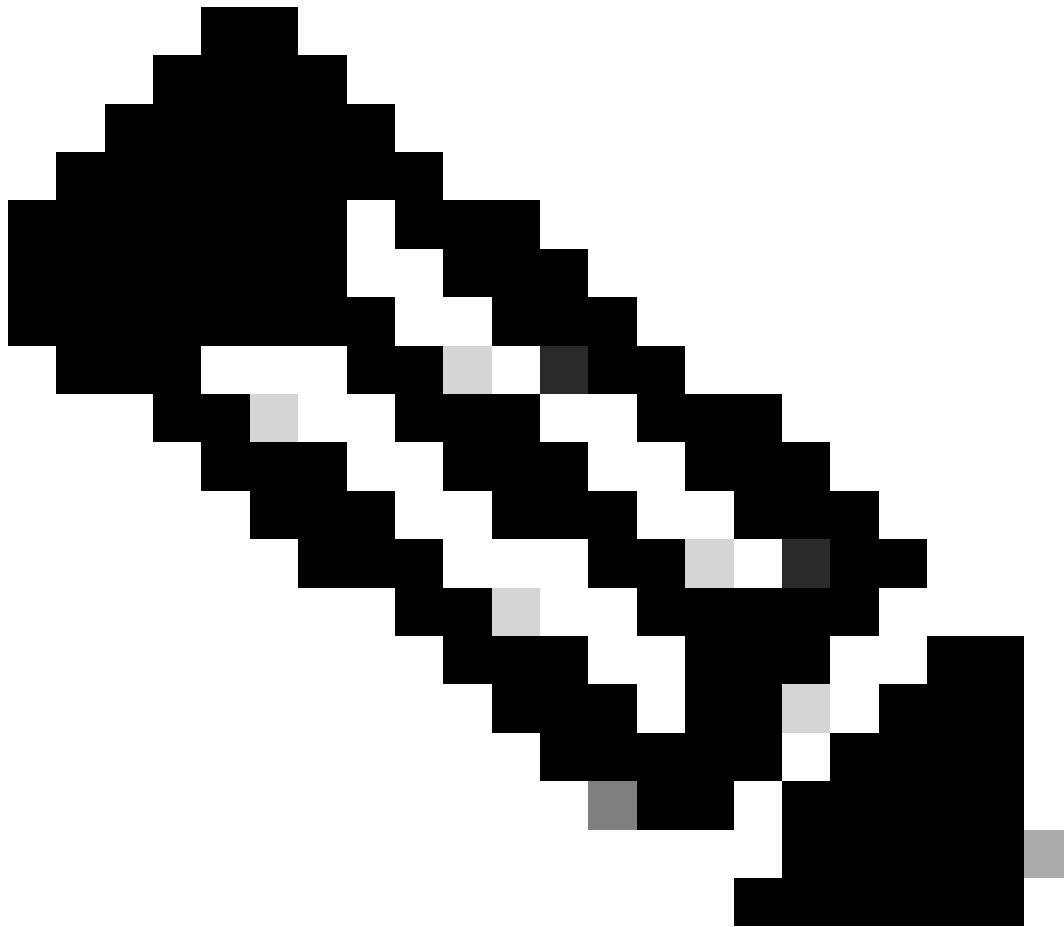
1	97

☐ Allow Overrides

Cancel

Save

Criando objeto de serviço wccp



Note: Neste exemplo, o ID de serviço é 97. É aconselhável selecionar um ID de serviço entre 90 e 97, já que estes são IDs de serviço personalizados que normalmente não entram em conflito com outros IDs de serviço atribuídos a protocolos específicos.

Para obter mais detalhes, consulte [WCCP no ASA: Conceitos, limitações e configuração](#)

Passo 3:

- Navegue até Object > Object Management > FlexConfig > Text Object e Search para isServiceIdentifier.

Text Object

Add Text Object

isServiceIdentifier

Text objects define free-form text strings that you use as variables in a FlexConfig object. These objects can have single values or be a list of multiple values.

Procurar isServiceIdentifier

- Modifique o isServiceIdentifier de false para true.
- isServiceIdentifier - Quando falso, usa o identificador standard web-cacheservice. Consulte o documento [Guia de configuração do Firepower Management Center](#)

Edit Text Object



Name:

isServiceIdentifier

Description:

A flag to identity whether to use service in wccp.

Variable Type

Single

Count

1



1	true

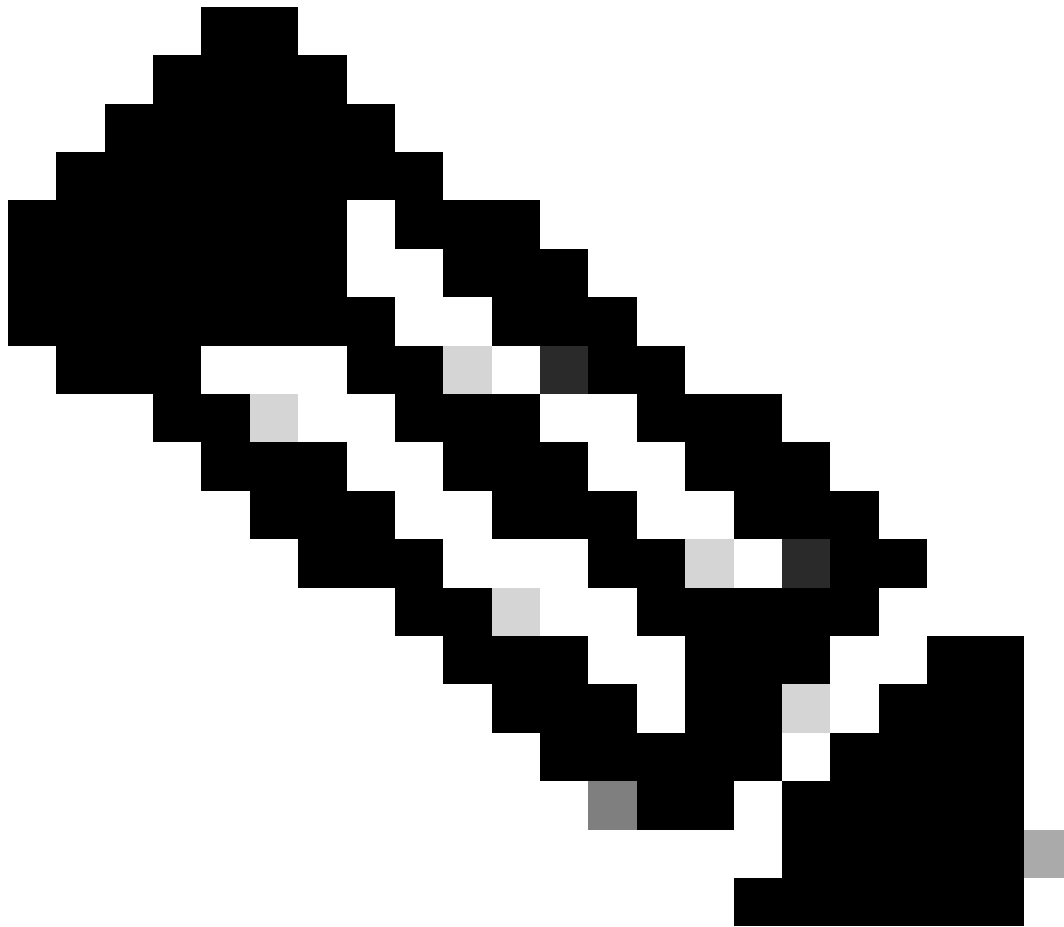
☒ Allow Overrides

► Override (0)

Cancel

Save

Modificar o valor de falso para verdadeiro



Note: Além disso, você pode criar um Objeto de Texto definido pelo usuário mostrado na Etapa 2.

Passo 4:

- Navegue até Object > Object Management > Flex Config > FlexConfig Object.
- Procure a palavra-chave wccp.
- Clique na opção Clone para o modelo Wccp_Configure.

Firewall Management Center
Objects / Object Management

Overview Analysis Policies Devices **Objects** Integration

Deploy 🔍 ⚙️ ? admin ✓ CISCO SECURE

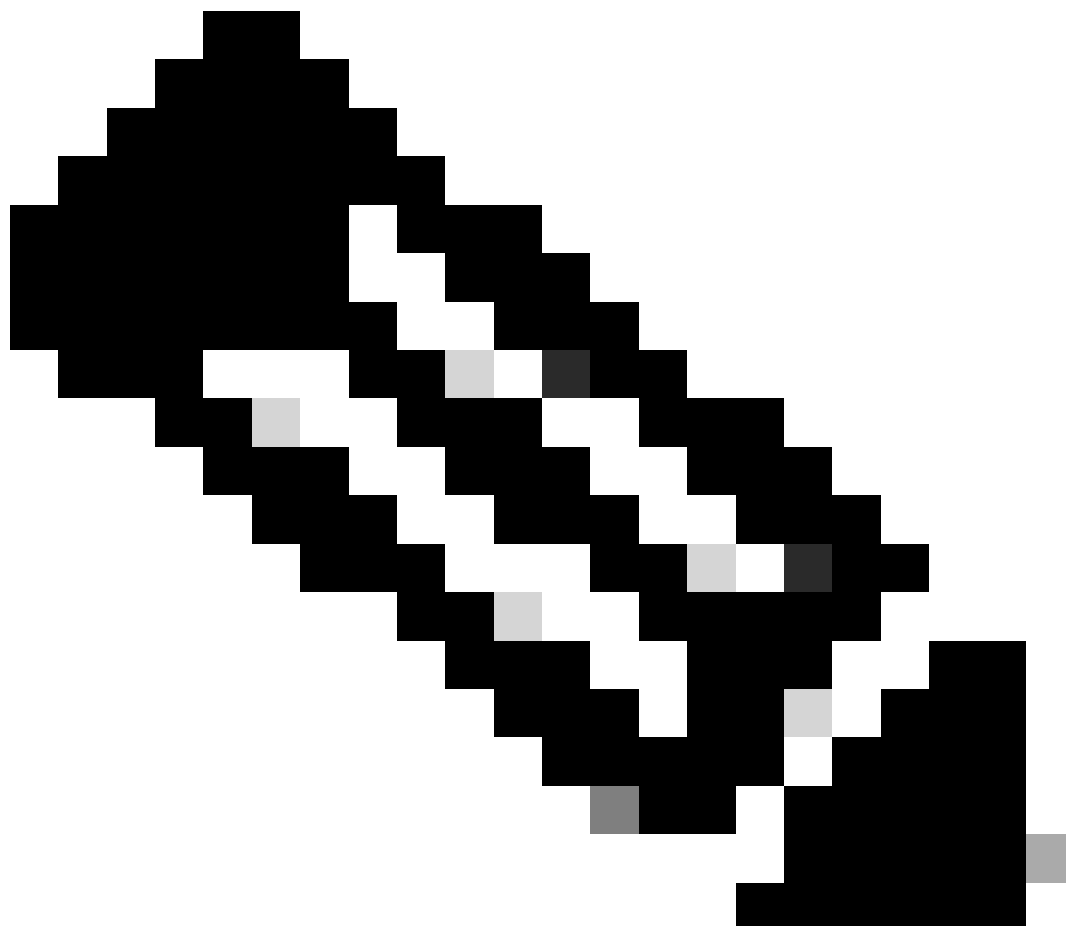
FlexConfig Object

Add FlexConfig Object 🔍 wccp X

FlexConfig Object include device configuration commands, variables, and scripting language instructions. It is used in FlexConfig policies.

Name	Description	
Wccp_Configure	The template is an example of wccp configur...	  
Wccp_Configure_Clear	Clears wccp configurations.	  

Clonar o modelo wccp_configure



Note: O objeto FlexConfig tem um modelo predefinido: Wccp_Configure. O modelo não pode ser anexado ao dispositivo. Você deve cloná-lo.

Passo 5:

- Remova as variáveis \$serviceIdentifier da terceira linha e forneça sua própria variável.

Add FlexConfig Object

Name:
Wccp_Configure_clone

Description:
The template is an example of wccp configuration. It can not be

⚠ Copy-pasting any rich text might introduce line breaks while generating CLI. Please verify the CLI before deployment.

Insert | Deployment: Once | Type: Append

```
#set( $service = "web-cache")
#if( $isServiceIdentifier == "true")
#set( $service = "$ServiceIdentifier")
#end
#set ( $wccpCli = "wccp")
#set ( $wccpCli = "$wccpCli $service")
####wccpGroupList is place-holder for extended ACL.
####Replace wccpGroupList with extended ACL defined in FMC by inserting policy-object of type extended ACL.
#if( $wccpGroupList )
#set( $wccpCli = "$wccpCli group-list $wccpGroupList")
#end
####wccpRedirectList is place-holder for extended ACL.
####Replace wccpRedirectList with extended ACL defined in FMC by inserting policy-object of type extended ACL.
#if( $wccpRedirectList )
#set( $wccpCli = "$wccpCli redirect-list $wccpRedirectList")
#end
```

▼ Variables

Name	Dimension	Default Value	Property (Type:Name)	Override	Description
isServiceIdentifier	SINGLE	true	FREEFORM:i...	false	A flag to determine if service ...
serviceIdentifier	SINGLE	1	FREEFORM:...	false	service identifier number is to...

Cancel Save

Remover o identificador de serviço

- Insira o Text Object ccp-service como a variável criada na etapa 2.
- No menu suspenso, selecione Inserir > Inserir objeto de política > Objeto de texto

Add FlexConfig Object

Name:

Wccp_Configure_clone

Description:

The template is an example of wccp configuration. It can not be

⚠ Copy-pasting any rich text might introduce line breaks while generating CLI. Please verify the CLI before deployment.

Insert ▾



Deployment:

Once ▾

Type:

Append

Insert Policy Object ▸

Text Object

Insert System Variable ▸

Network

Insert Secret Key

Security Zones

#set (\$wccpCli = "\$wccp

Standard ACL Object

####wccpGroupList is pl

####Replace wccpGroupLi

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defined in FMC by inserting policy-object of type extended ACL.

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defined in FMC by inserting policy-object of type extended ACL.

Inserir o objeto wccp-service como variável

- Forneça um Variable Name wccp-service.
- Procure wccp-service-object em Available Object.
- Adicione o objeto e salve-o.

Insert Text Object Variable



Variable Name:

wccp-service

Description:

Available Objects

🔍 wccp



wccp-service-object

wccpPassword

Add

Selected Object

wccp-service-object



Cancel

Save

Adicionar objeto de serviço wccp

Passo 6:

- Copie o nome da variável wccpGroupList e forneça sua própria variável.

Add FlexConfig Object

Name:

Description:

⚠ Copy-pasting any rich text might introduce line breaks while generating CLI. Please verify the CLI before deployment.

Insert ▾ |  Deployment: Type:

```
#set( $service = "web-cache")
#if( $isServiceIdentifier == "true")
#set( $service = "$wccp-service")
#end
#set ( $wccpCli = "wccp")
#set ( $wccpCli = "$wccpCli $service")
####wccpGroupList is place-holder for extended ACL.
####Replace wccpGroupList with extended ACL defined in FMC by inserting policy-object of type extended ACL.
#if( $wccpGroupList )
#set( $wccpCli = "$wccpCli group-list $wccpGroupList")
#end
####wccpRedirectList is place-holder for extended ACL.
####Replace wccpRedirectList with extended ACL defined in FMC by inserting policy-object of type extended ACL.
#if( $wccpRedirectList )
#set( $wccpCli = "$wccpCli redirect-list $wccpRedirectList")
#end
```

▼ Variables

Remover variável wccpGroupList predefinida

- No menu suspenso Inserir > Inserir objeto de política > Objeto de ACL estendida.

Add FlexConfig Object

Name:

Description:

⚠ Copy-pasting any rich text might introduce line breaks while generating CLI. Please verify the CLI before deployment.

Insert ▾ |  Deployment: Type:

Insert Policy Object ▸

- Text Object
- Insert System Variable ▸
- Network
- Insert Secret Key
- Security Zones
- Standard ACL Object
- Extended ACL Object**
- Route Map

```
#set ( $wccpCli = "$wccpCli $service")
####wccpGroupList is place-holder for extended ACL.
####Replace wccpGroupList with extended ACL defined in FMC by inserting policy-object of type extended ACL.
#if( $wccpGroupList )
#set( $wccpCli = "$wccpCli group-list $wccpGroupList")
#end
####wccpRedirectList is place-holder for extended ACL.
####Replace wccpRedirectList with extended ACL defined in FMC by inserting policy-object of type extended ACL.
#if( $wccpRedirectList )
#set( $wccpCli = "$wccpCli redirect-list $wccpRedirectList")
#end
```

▼ Variables

Adicionando ACL estendida wccpGroupList

- Cole o nome wccpGroupList que você copiou na etapa anterior da seção Nome da variável.

- Procure WCCP-CLIENT em Available Objects criados na etapa 1.
- Adicione e salve-o.

Insert Extended Access List Object Variable

Variable Name:

Description:

Available Objects ↻

Redirect_traffic

WCCP-CLIENT

Add

Selected Object

WCCP-CLIENT

Cancel

Save

Adicionar lista estendida de WCCP-CLIENT

Passo 7:

- Selecione wccpRedirectList para copiar e fornecer sua própria variável.

Add FlexConfig Object

Name:

Wccp_Configure_clone

Description:

The template is an example of wccp configuration. It can not be

⚠ Copy-pasting any rich text might introduce line breaks while generating CLI. Please verify the CLI before deployment.

Insert ▾



Deployment:

Once ▾

Type:

Append

```
#set( $service = "web-cache")
#if( $isServiceIdentifier == "true")
#set( $service = "$wccp-service")
#end
#set ( $wccpCli = "wccp")
#set ( $wccpCli = "$wccpCli $service")
####wccpGroupList is place-holder for extended ACL.
####Replace wccpGroupList with extended ACL defined in FMC by inserting policy-object of type extended ACL.
#if( $wccpGroupList )
#set( $wccpCli = "$wccpCli group-list $wccpGroupList")
#end
####wccpRedirectList is place-holder for extended ACL.
####Replace wccpRedirectList with extended ACL defined in FMC by inserting policy-object of type extended ACL.
→ #if( $wccpRedirectList )
#set( $wccpCli = "$wccpCli redirect-list $wccpRedirectList")
#end
```

Remover wccpRedirectList

- No menu suspenso, selecione Insert > Insert Policy Object > Extended ACL Object .

Add FlexConfig Object

Name:

Wccp_Configure_clone

Description:

The template is an example of wccp configuration. It can not be

⚠ Copy-pasting any rich text might introduce line breaks while generating CLI. Please verify the CLI before deployment.

Insert ▾



Deployment:

Once ▾

Type:

Append

Insert Policy Object ▸

Text Object

Insert System Variable ▸

Network

Insert Secret Key

Security Zones

Insert Policy Object ▸

Standard ACL Object

Insert Policy Object ▸

Extended ACL Object

Insert Policy Object ▸

Route Map

```
#set ( $wccpCli = "$wccpCli $service")
####wccpGroupList is place-holder for extended ACL.
####Replace wccpGroupList with extended ACL defined in FMC by inserting policy-object of type extended ACL.
#if( $wccpGroupList )
#set( $wccpCli = "$wccpCli group-list $wccpGroupList")
#end
####wccpRedirectList is place-holder for extended ACL.
####Replace wccpRedirectList with extended ACL defined in FMC by inserting policy-object of type extended ACL.
#if( $wccpRedirectList )
#set( $wccpCli = "$wccpCli redirect-list $wccpRedirectList")
#end
```

▼ Variables

Selecionar objeto de ACL estendida para wccpRedirectList

- Cole wccpRedirectList em Nome da Variável.

- Procure Redirect_traffic em Available Object.
- Selecione Add e Save.

Insert Extended Access List Object Variable

Variable Name:

wccpRedirectList

Description:

Available Objects

Search

Redirect_traffic

WCCP-CLIENT

Add

Selected Object

Redirect_traffic

Cancel

Save

Adicionar ACL Redirect_traffic

Passo 8:

- Remover **@wccpPassword**

Add FlexConfig Object

Name:

Wccp_Configure_clone

Description:

The template is an example of wccp configuration. It can not be

⚠ Copy-pasting any rich text might introduce line breaks while generating CLI. Please verify the CLI before deployment.

Insert ▾



Deployment:

Once ▾

Type:

Append ▾

```
####wccpGroupList is place-holder for extended ACL.
####Replace wccpGroupList with extended ACL defined in FMC by inserting policy-object of type extended ACL.
#if( $wccpGroupList )
#set( $wccpCli = "$wccpCli group-list $wccpGroupList")
#end
####wccpRedirectList is place-holder for extended ACL.
####Replace wccpRedirectList with extended ACL defined in FMC by inserting policy-object of type extended ACL.
#if( $wccpRedirectList )
#set( $wccpCli = "$wccpCli redirect-list $wccpRedirectList")
#end

#set( $wccpCli = "$wccpCli password @wccpPassword ")

$wccpCli

#### Assigning wccp onto interface
#foreach( $interfaceName in $security-zone)
```

Removida a senha wccp predefinida

- Selecione a chave no menu suspenso Insert > Insert Secret Key.

Add FlexConfig Object

Name:

Wccp_Configure_clone

Description:

The template is an example of wccp configuration. It can not be

⚠ Copy-pasting any rich text might introduce line breaks while generating CLI. Please verify the CLI before deployment.

Insert ▾



Deployment:

Once ▾

Type:

Append ▾

Insert Policy Object ▸

Insert System Variable ▸

Insert Secret Key

```
ace-holder for extended ACL.
st with extended ACL defined in FMC by inserting policy-object of type extended ACL.
Cli group-list $wccpGroupList")
place-holder for extended ACL.
####Replace wccpRedirectList with extended ACL defined in FMC by inserting policy-object of type extended ACL.
#if( $wccpRedirectList )
#set( $wccpCli = "$wccpCli redirect-list $wccpRedirectList")
#end

#set( $wccpCli = "$wccpCli password ")

$wccpCli

#### Assigning wccp onto interface
#foreach( $interfaceName in $security-zone)
```

▼ Variables

Selecionar chave secreta

- Clique em Add Secret Key.

Insert Secret Key

?

Add Secret Key

	Name	
☐	wccpPassword	 

Cancel

Save

Adicionar chave secreta

- Insira um nome em Nome da chave secreta.
- Digite a senha.
- Insira a mesma senha em Confirmar senha e clique em Adicionar.

Add Secret Key



Secret Key name:*

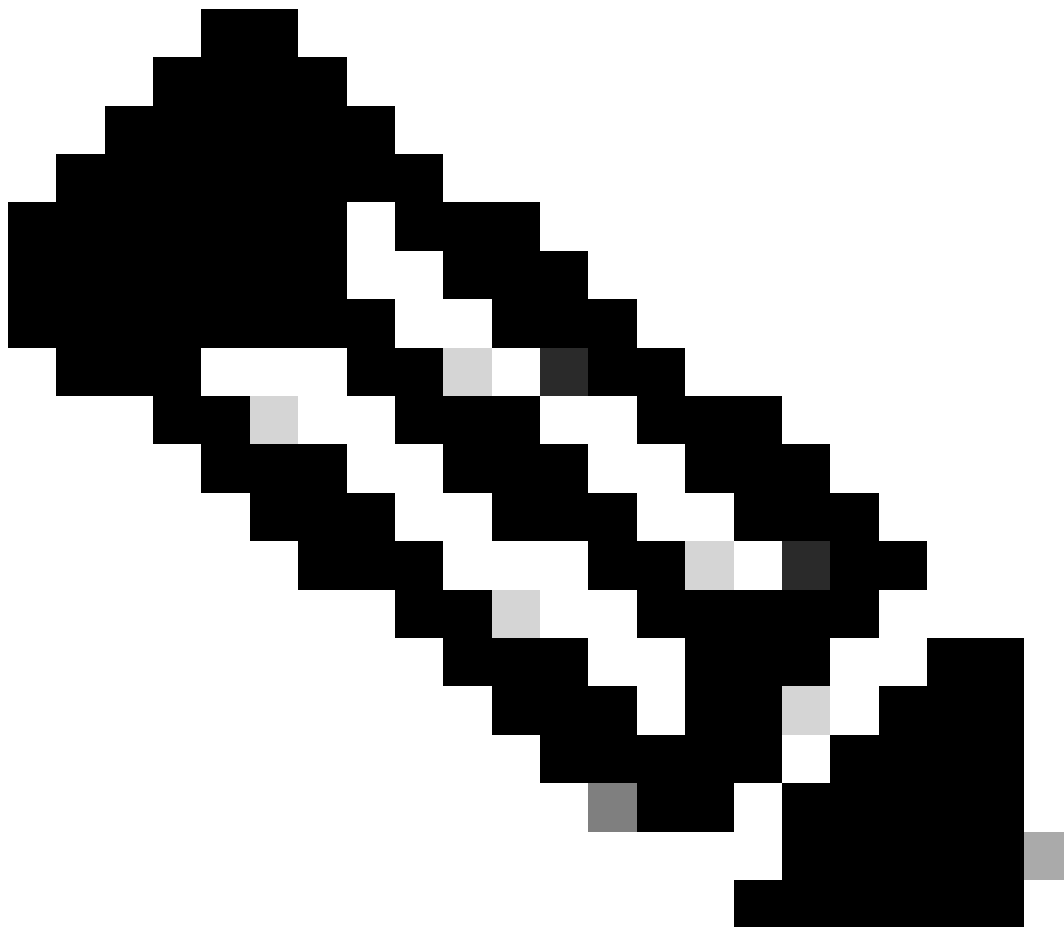
Password:*

Confirm Password *:*

Cancel

Add

Adicionar chave secreta definida pelo usuário



Note: Neste exemplo, a interface interna pertence a Security Zone in.

Etapa 9:

- Copie a zona de segurança predefinida e substitua \$ zona de segurança por sua própria variável.

Edit FlexConfig Object



Name:

Wccp_Configure_clone

Description:

The template is an example of
wccp configuration. It can not

⚠ Copy-pasting any rich text might introduce line breaks while generating CLI. Please verify the CLI before deployment.

Insert ▾



Deployment:

Once ▾

Type:

Append ▾

```
#####  
#set( $wccpCli = "$wccpCli group-list $wccpGroupList")  
#end  
###wccpRedirectList is place-holder for extended ACL.  
###Replace wccpRedirectList with extended ACL defined in FMC by inserting policy-object of type extended ACL.  
#if( $wccpRedirectList )  
#set( $wccpCli = "$wccpCli redirect-list $wccpRedirectList")  
#end  
  
#set( $wccpCli = "$wccpCli password @wccppassword ")  
  
$wccpCli  
  
### Assigning wccp onto interface  
#foreach( $interfaceName in $security-zone)  
wccp interface $interfaceName $service redirect in  
#end
```

▼ Variables

Name	Dimension	Default Value	Property (Type:Name)	Override	Description
wccpGroupList	SINGLE	WCCP-CLIENT	EXD_ACL:W...	false	
wccp-service	SINGLE	97	FREEFORM:...	false	
interfaceName	SINGLE	in	SECURITYZ...	false	
security-zone	SINGLE	in	SECURITYZ...	false	

Copie o nome security-zone

- Selezione Security Zones no menu suspenso e Insert > Insert Policy Object.

Add FlexConfig Object

Name:

Wccp_Configure_clone

Description:

The template is an example of wccp configuration. It can not be

⚠ Copy-pasting any rich text might introduce line breaks while generating CLI. Please verify the CLI before deployment.

Insert ▾



Deployment:

Once ▾

Type:

Append

Insert Policy Object ▸

Insert System Variable ▸

Insert Secret Key

Text Object

Network

Security Zones

Standard ACL Object

Extended ACL Object

Route Map

```
#set( $wccpCli = "$wccpCli\nwccp interface $interfaceName $service redirect in\n#end\n\n#### Assigning wccp onto interface\n#foreach( in $security-zone)\nwccp interface $interfaceName $service redirect in\n#end
```

▼ Variables

Selecionar a zona de segurança

- Cole o nome da variável como security-zone
- Em Objetos Disponíveis, selecione a interface a Adicionar.
- Click Save.

Insert Security Zone Variable



Variable Name:

security-zone

Description:

Available Objects

Search

dmz

in

out

Add

Selected Object

in



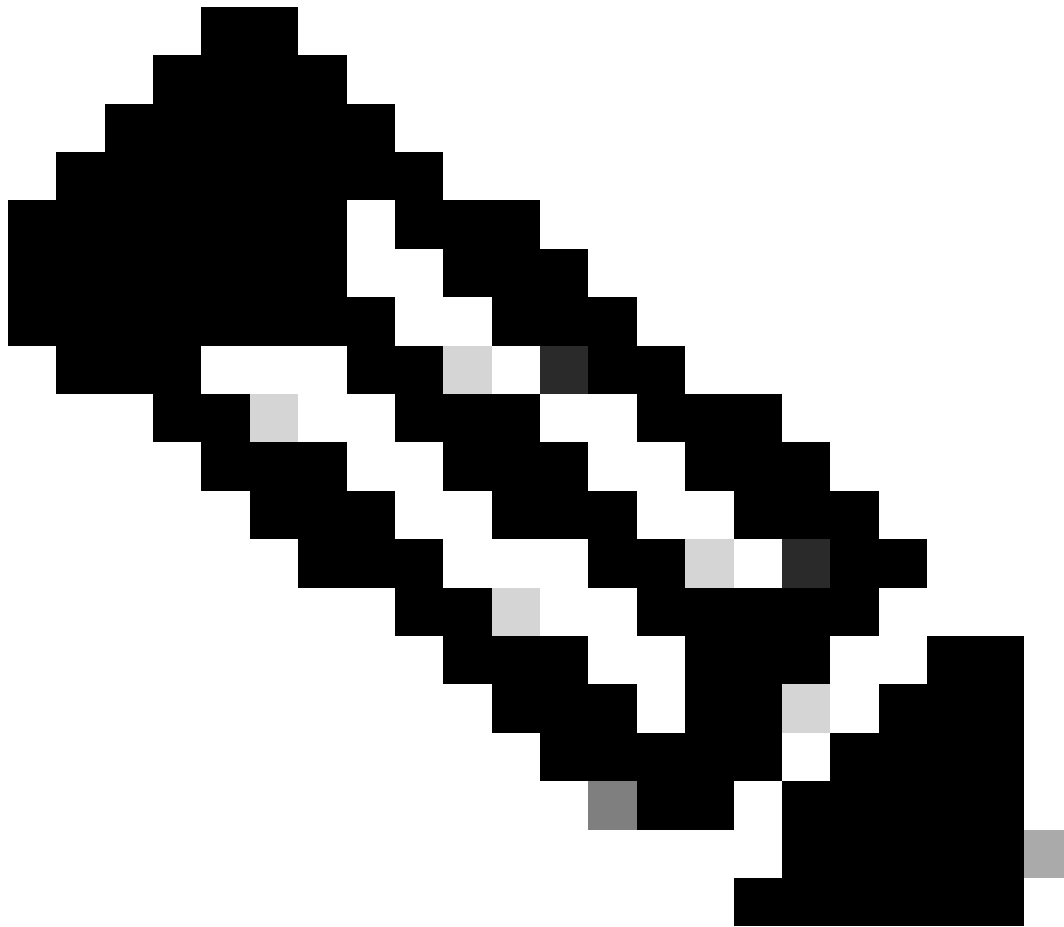
Cancel

Save

Adicionando zona de segurança

Etapa 10:

- Navegue até Devices > FlexConfig, clique em New Policy ou Edit uma política existente.
- Selecione o objeto Wccp_configure_clone configurado e clique em > para atribuí-lo.
- Click Save.



Note: Para uma nova política, assegure-se de atribuir a política ao dispositivo FTD. Para uma política existente, a política já deve ter sido atribuída.

WCCP_config

Enter Description

Migrate Config Preview Config Save Cancel

Policy Assignments (1)

Available FlexConfig FlexConfig Object

User Defined

- Wccp_Configure_clone

System Defined

- Default_DNS_Configure
- Default_Inspection_Protocol_Disable
- Default_Inspection_Protocol_Enable
- DHCPv6_Prefix_Delegation_Configure
- DHCPv6_Prefix_Delegation_UnConfigure
- DNS_Configure
- DNS_UnConfigure
- Eigrp_Configure
- Eigrp_Interface_Configure
- Eigrp_UnConfigure
- Eigrp_Unconfigure_All

Selected Prepend FlexConfigs

#	Name	Description
---	------	-------------

Selected Append FlexConfigs

#	Name	Description
1	Wccp_Configure_clone	The template is an example of wccp configuration. It can not be used as it is for deployment. User needs to copy this, modify text-object and create objects expected by the templa...

Atribuir o FlexConfig configurado ao dispositivo

Etapa 11: Navegue até Implantar > Selecionar o dispositivo FTD > clique em Implantar.

Verificar

Passo 1: Verifique a configuração atual.

Inicie a sessão no FTD CLI e execute o comando `show running-config wccp`.

Exemplo de configuração:

```
wccp 97 redirect-list Redirect_traffic group-list WCCP-CLIENT password *****  
wccp interface inside 97 redirect in
```

Para garantir que a configuração tenha a senha correta, execute os comandos.

- 1) `system support diagnostic-cli`
- 2) `enable`
- 3) Pressione Enter sem senha
- 4) `more system:running-config | include wccp`

Passo 2: Verifique o status do WCCP

Executar o comando `show wccp`

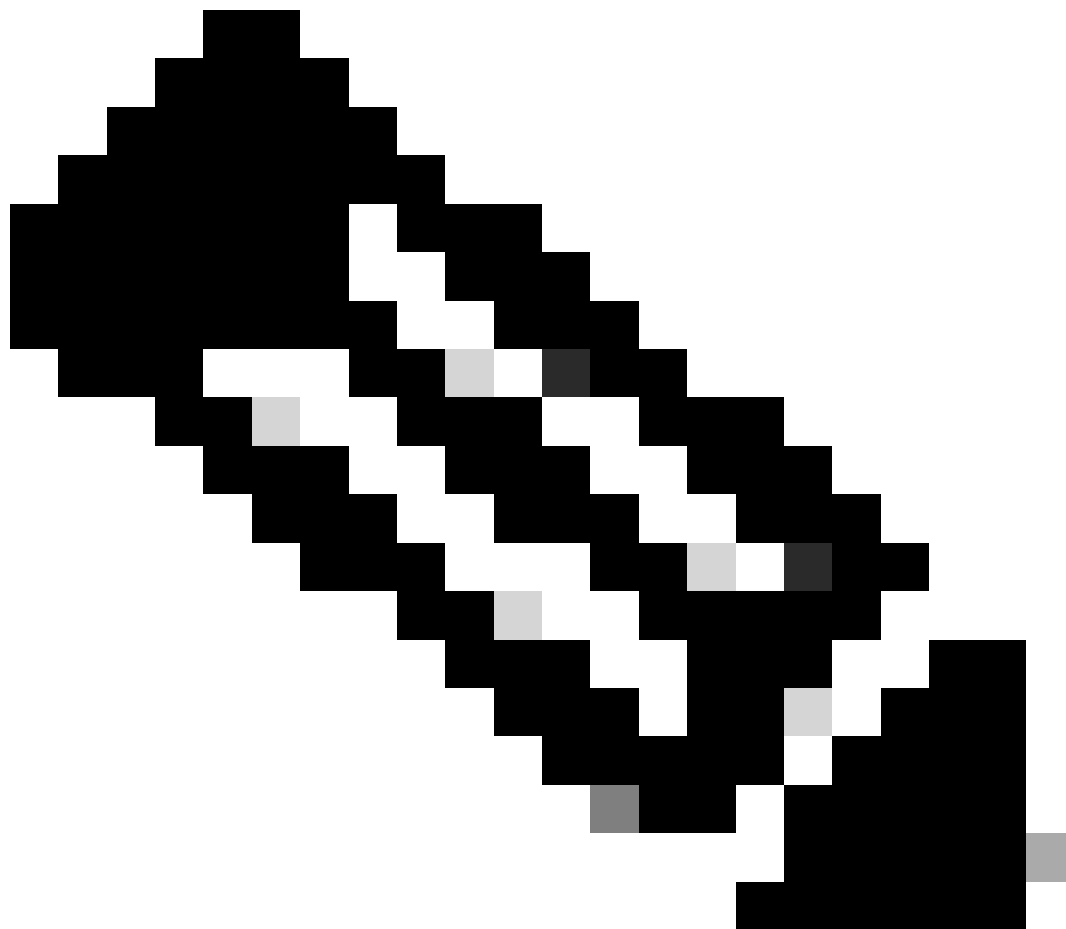
```
Global WCCP information:  
  Router information:  
    Router Identifier:      -not yet determined-  
    Protocol Version:      2.0  
  
  Service Identifier: 97  
    Number of Cache Engines: 1  
    Number of routers:      2  
    Total Packets Redirected: 0  
    Redirect access-list:    Redirect_traffic  
    Total Connections Denied Redirect: 0  
    Total Packets Unassigned: 0  
    Group access-list:       WCCP-CLIENT  
    Total Messages Denied to Group: 0  
    Total Authentication failures: 0  
    Total Bypassed Packets Received: 0
```

Executar o comando `show wccp 97 service`

WCCP service information definition:

Type: Dynamic
Id: 97
Priority: 240
Protocol: 6
Options: 0x00000012

Hash: DstIP
Alt Hash: -none-
Ports: Destination:: 80 443 0 0 0 0 0 0



Note: Aqui 97 é o service-id. Certifique-se de que você pode ver o número de porta aprendido do cliente WCCP em Portas: seção.

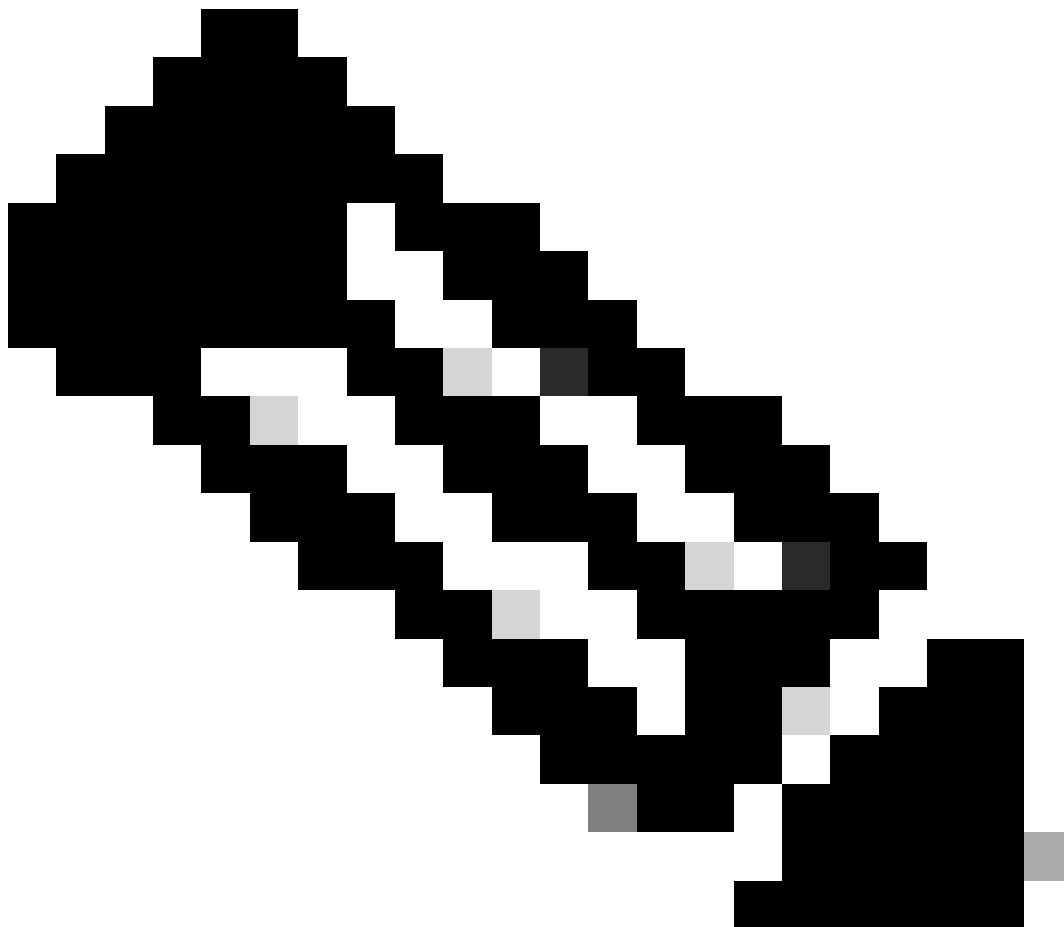
3) Run the command `show wccp 97 view`

Troubleshooting

Passo 1: Verifique se o FTD tem a rota da mesma interface que recebeu a solicitação do WCCP do servidor Proxy.

Neste exemplo, o tráfego é redirecionado para a interface dmz.

```
>show route  
S      10.xx.xx.xx 255.yyy.yyy.yyy [1/0] via 10.zz.zz.z, dmz
```



Note: Aqui 10.xx.xx.xx é o IP do servidor proxy, 255.yyy.yyy.yyy é a máscara de rede, 10.zz.zz.z é o gateway do próximo salto.

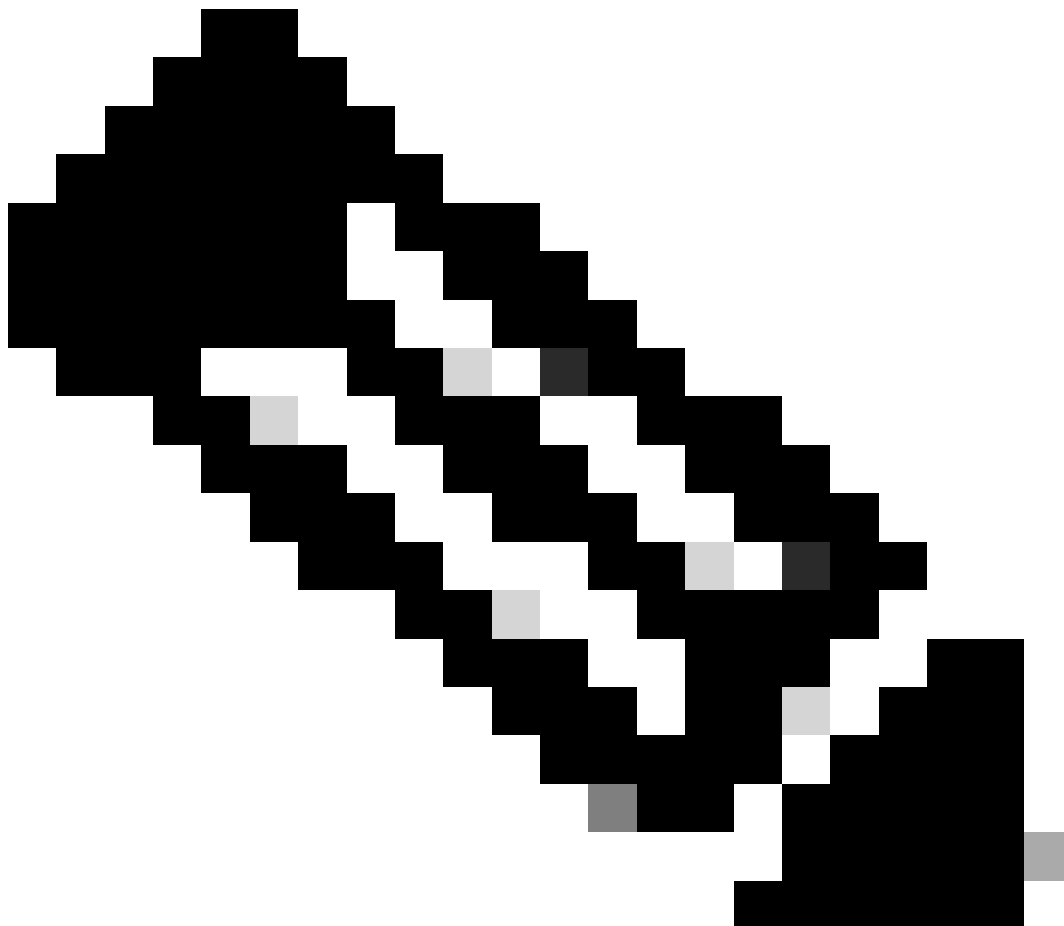
Passo 2: Realize as capturas na interface interna e dmz para garantir que o tráfego seja redirecionado.

Captura na interface interna para a porta 443

```
capture capinside interface inside trace detail match tcp any any eq 443
```

Capturar na interface dmz:

```
capture capdmz interface dmz trace detail match gre any any
```



Note: Na interface dmz, você deve filtrar com o protocolo GRE. O pacote de redirecionamento é encapsulado em um pacote GRE para o cliente wccp.

Passo 3: Depuração para wccp

Execute os comandos:

debug wccp event debu wccp packet

O bug da Cisco [IDCSCvn90518](#) foi levantado para aprimoramento para ter o suporte do FDM e do modo nativo do FMC para a configuração do WCCP.

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