17. Cisco Firepower 与ISE PIC整合实战

教主VIP，聊点高级的!

教主技术进化论 2022

主讲人：*现任明教教主*

北京乾颐堂网络实验室出品

1. ISE PIC技术介绍
2. 环境介绍
3. AD, FMC, ISE整合
4. FMC策略

1. ISE PIC技术介绍

ISE-PIC Overview

Passive Identity Connector (ISE-PIC) offers a centralized, one-stop installation and implementation enabling you to easily and simply configure your network in order to receive and share user identity information[接收并分享用户身份信息给不同的安全产品] with a variety of different security product subscribers such as Cisco Firepower Management Center (FMC) and Stealthwatch. As the full broker for passive identification, ISE-PIC collects user identities from different provider sources, such as Active Directory Domain Controllers (AD DC), maps the user login information to the relevant IP addresses in use and then shares that mapping information with any of the subscriber security products that you have configured.[ISE-PIC从不同的提供源, 例如:AD域控制器, 收集用户登录信息, 并且映射到IP地址, 然后分享给配置的订阅者]

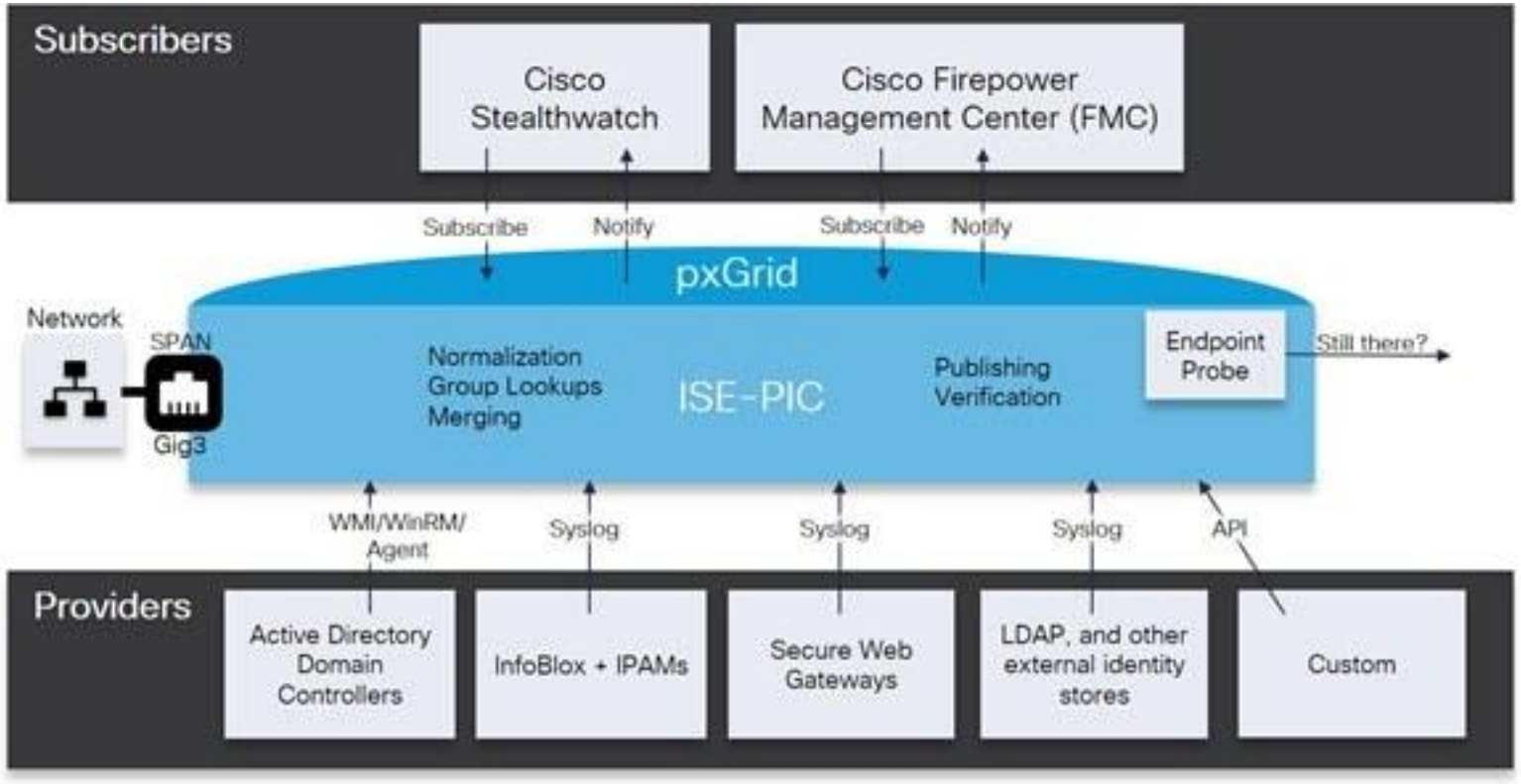
What is Passive Identity?

Products such as the Cisco Identity Services Engine (ISE), which provide an authentication, authorization and accounting (AAA) server, and utilize technologies such as 802.1X or Web Authentication, communicate directly with the user or endpoint[主动认证直接和用户或者终端通信], requesting access to the network, and then using their login credentials in order to verify and actively authenticate their identity.

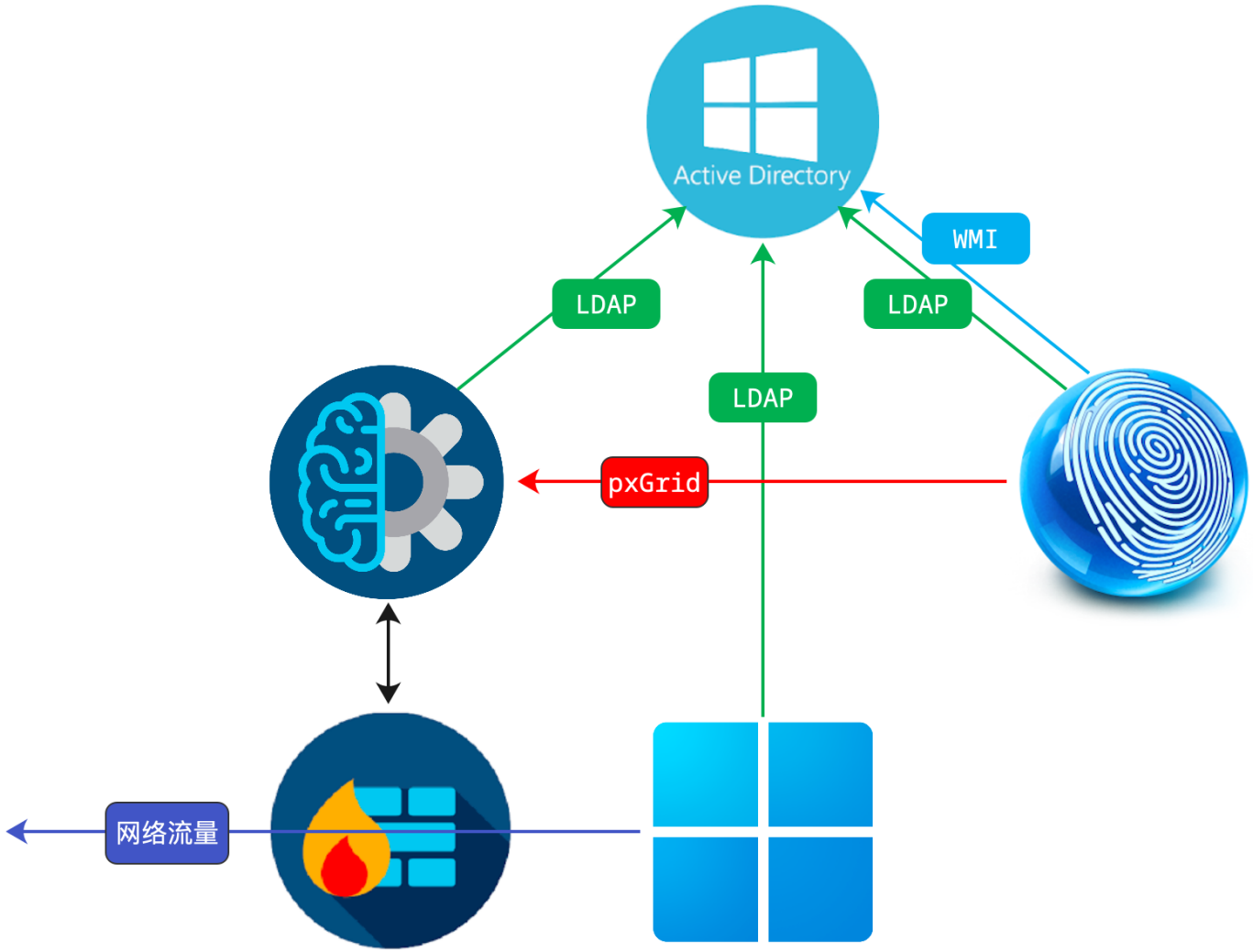
Passive identity services do not authenticate users directly[被动身份服务不直接认证用户], but rather gather user identities and IP addresses from external authentication servers such as Active Directory, known as providers, and then share that information with subscribers[从外部认证服务器, 例如AD, 收集用户和IP信息, 并分享这些信息给订阅者]. ISE-PIC first receives the user identity information from the provider, usually based on the user login and password, and then performs the necessary checks and services in order to match the user identity with the relevant IP address, thereby delivering the authenticated IP address to the subscriber.

Passive Identity Connector (ISE-PIC) Flow

1. Provider performs the authentication of the user or endpoint.
2. Provider sends authenticated user information to ISE-PIC.
3. ISE-PIC normalizes, performs lookups, merges, parses and maps user information to IP addresses and publishes mapped details to pxGrid.
4. pxGrid subscribers receive the mapped user details.



流程示意图



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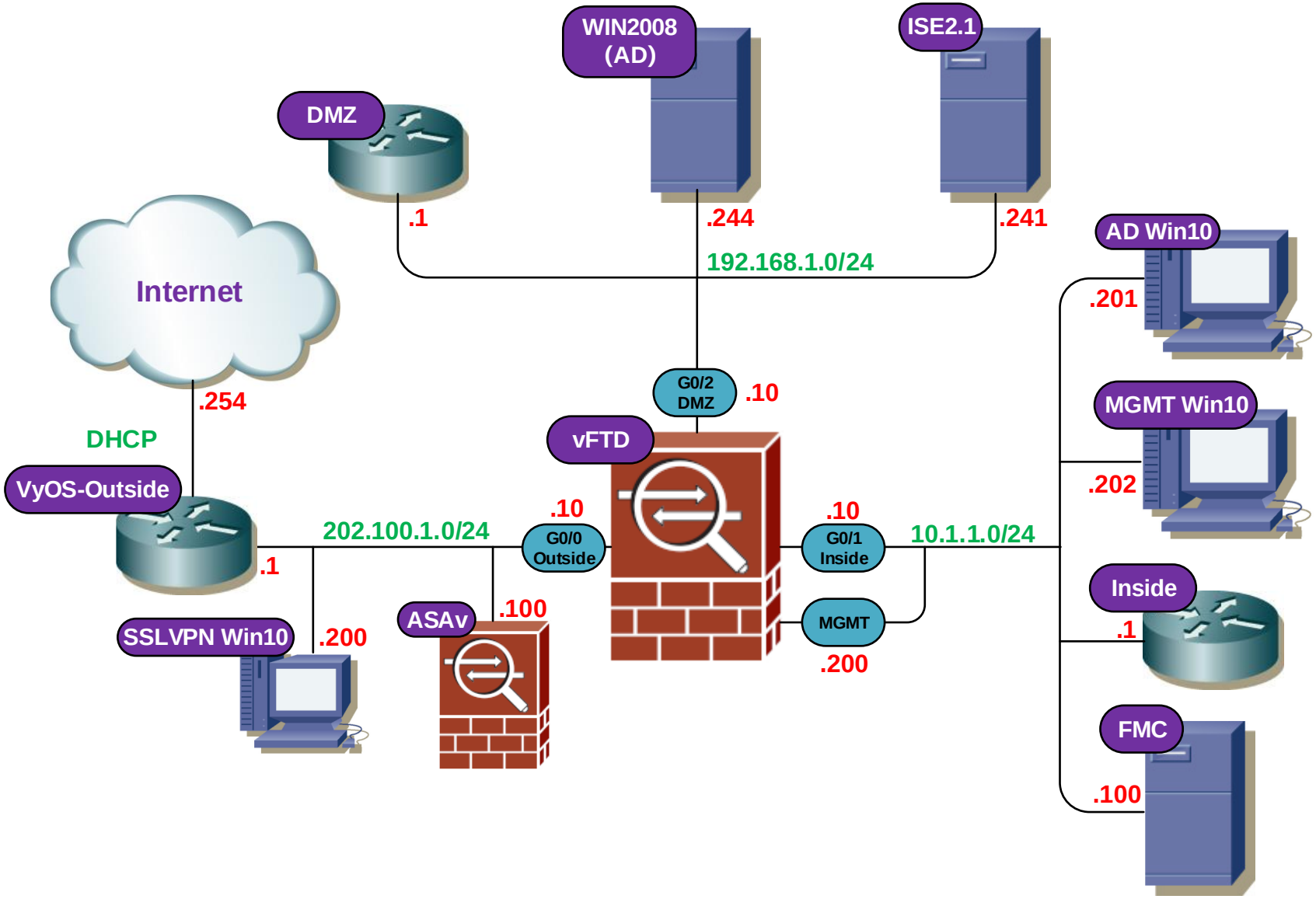
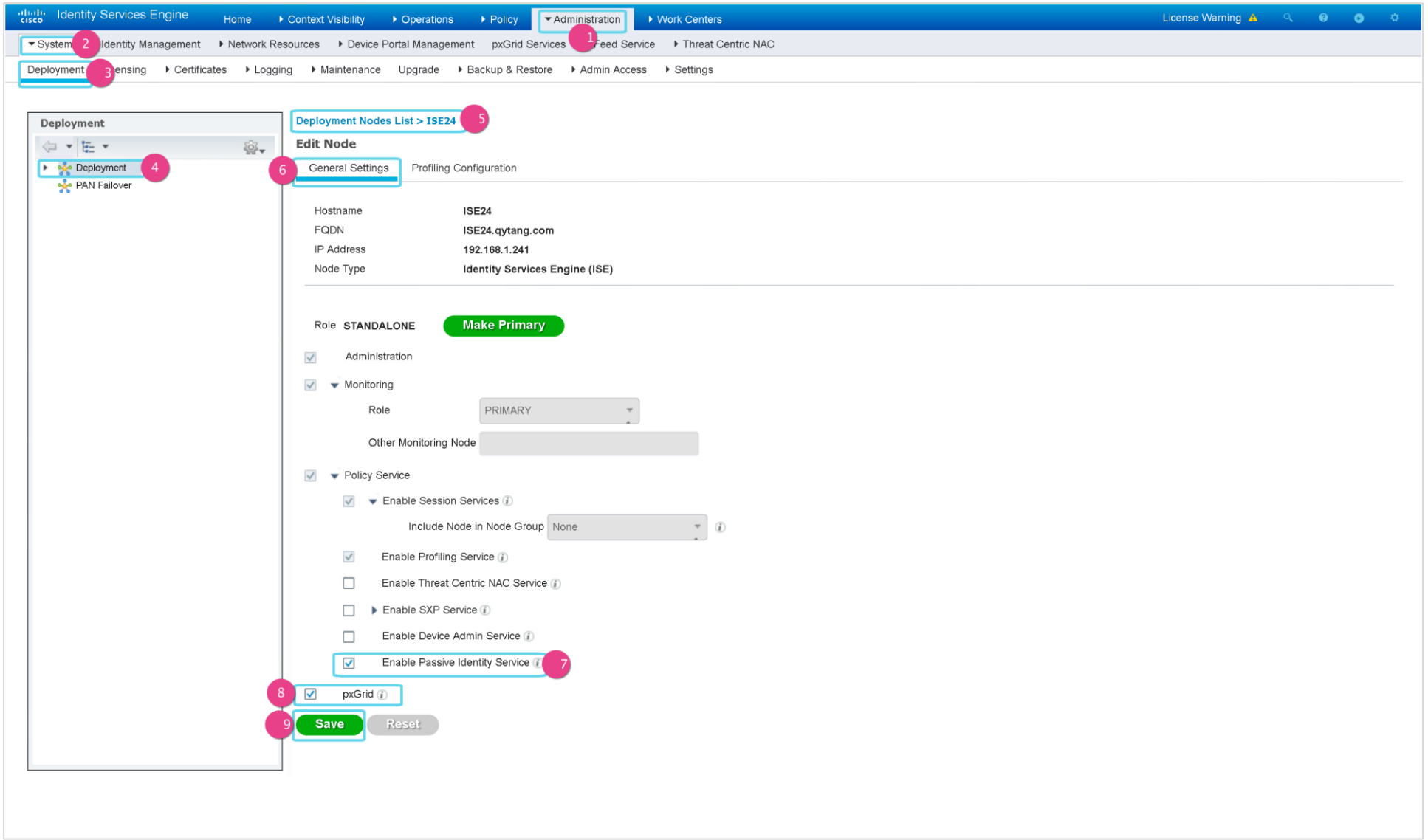
2. 环境介绍

实验拓扑

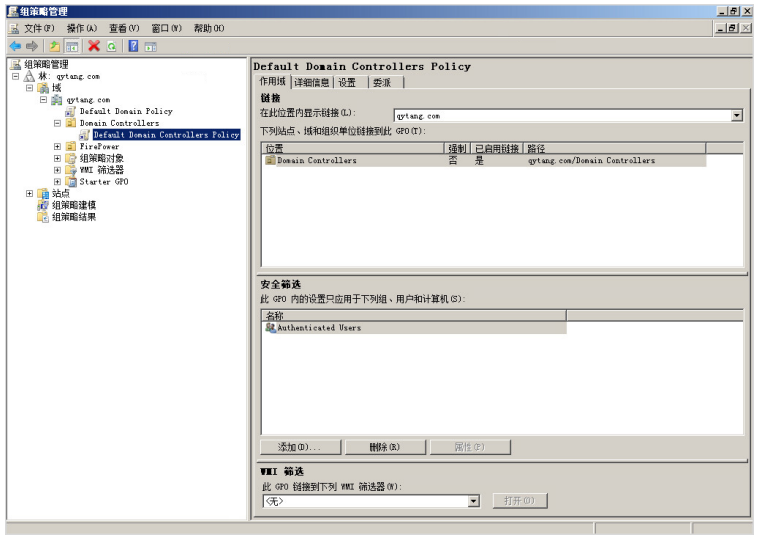


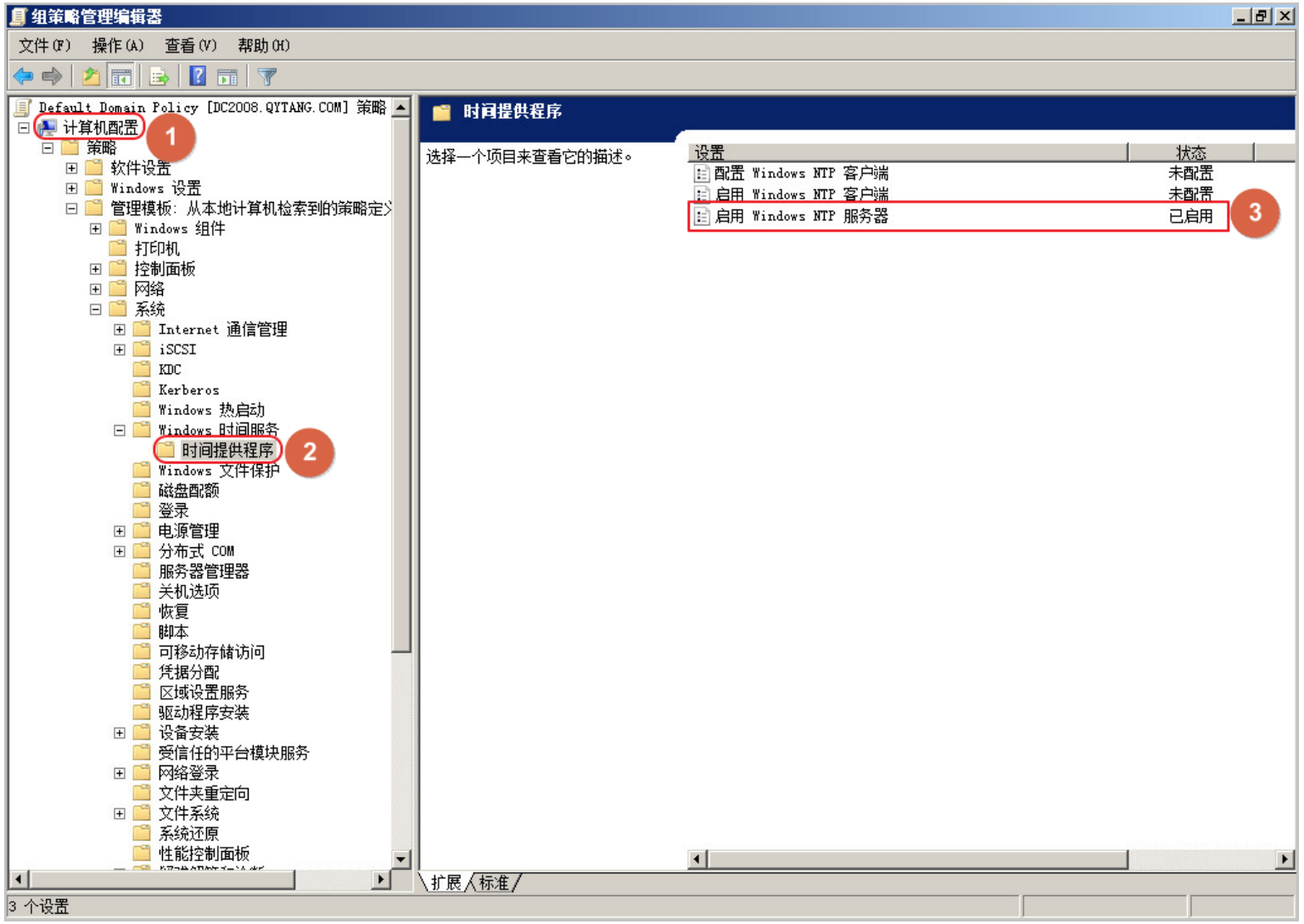
3. AD, FMC, ISE整合

激活pxGrid和Passive ID服务



激活WIN2008 NTP





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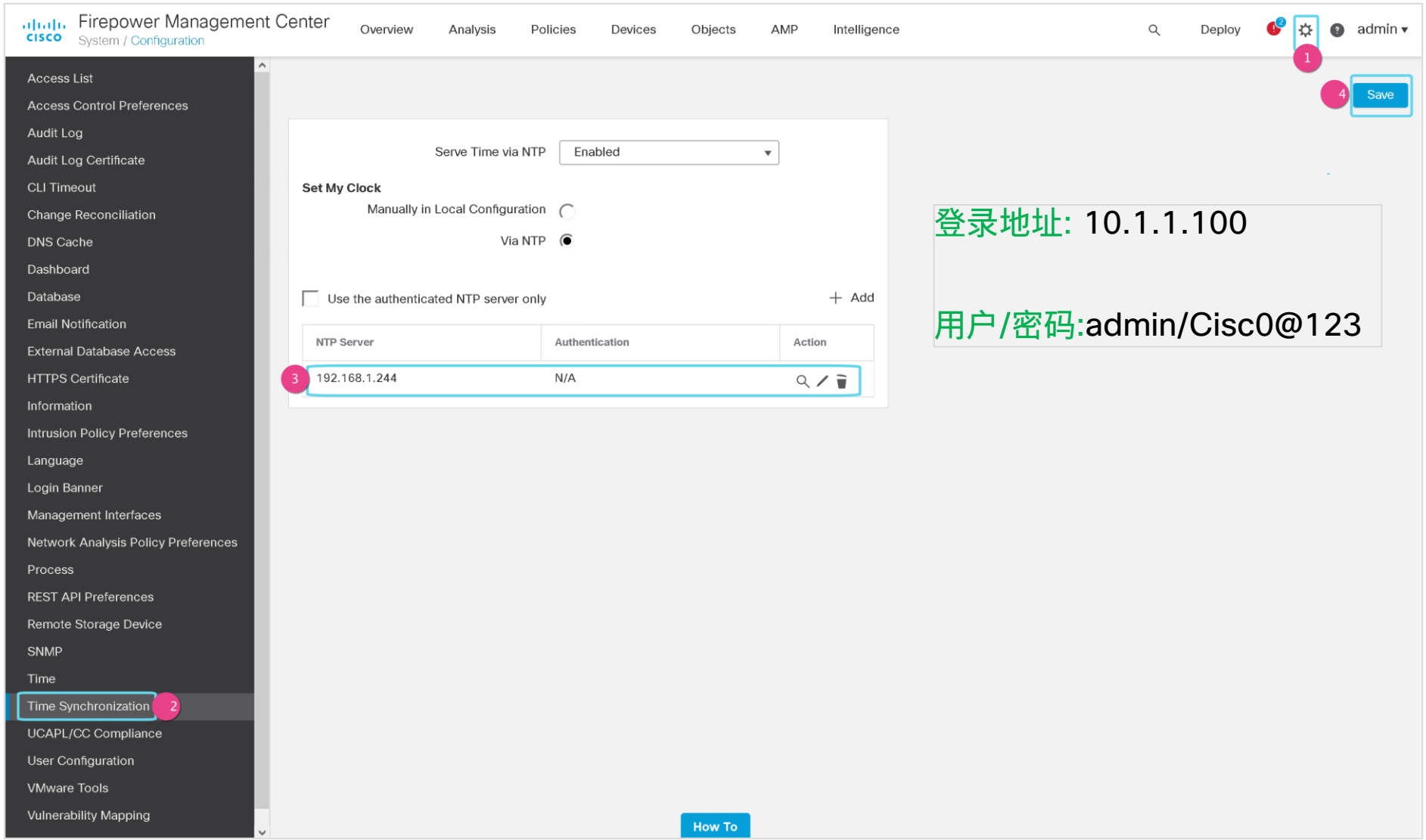

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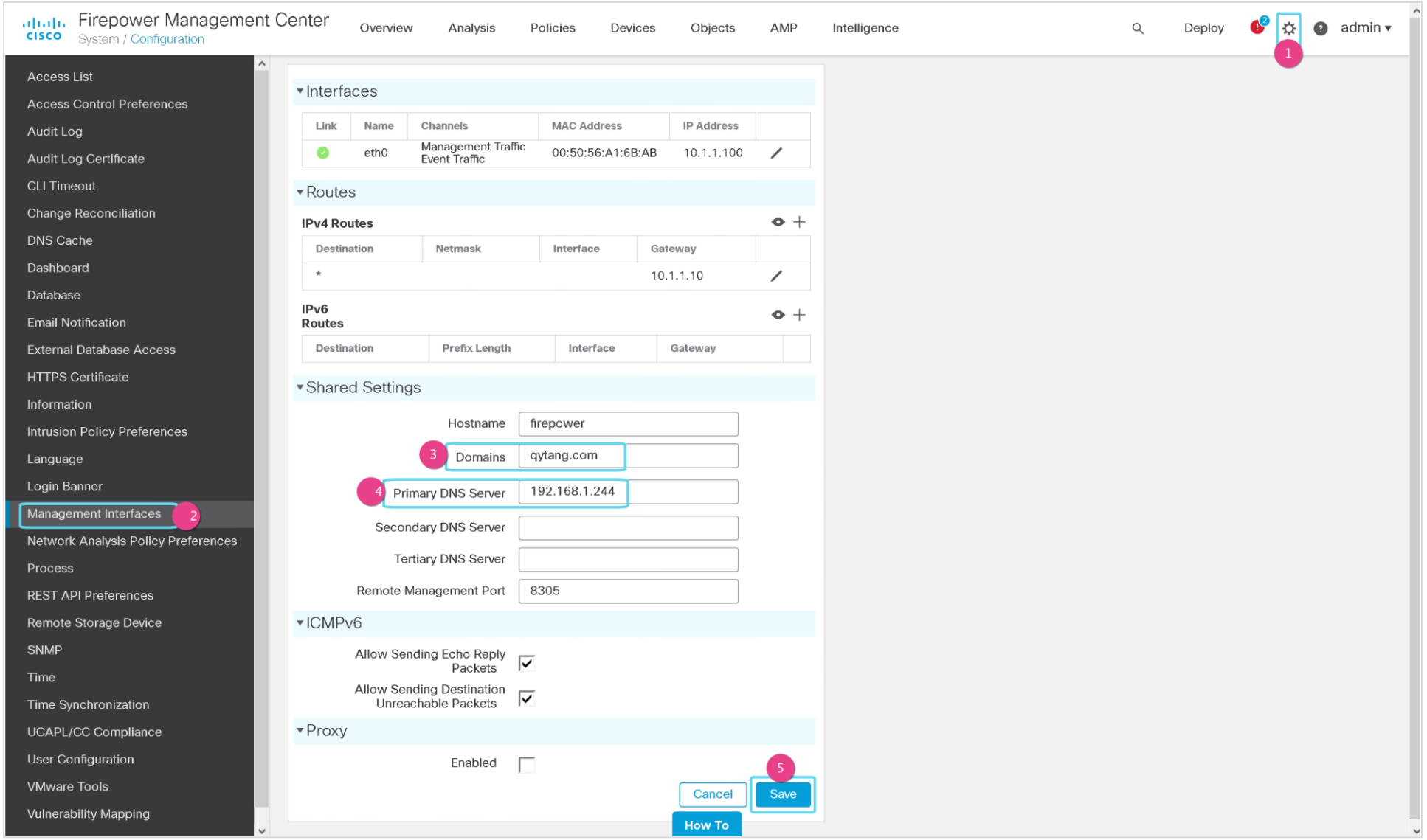
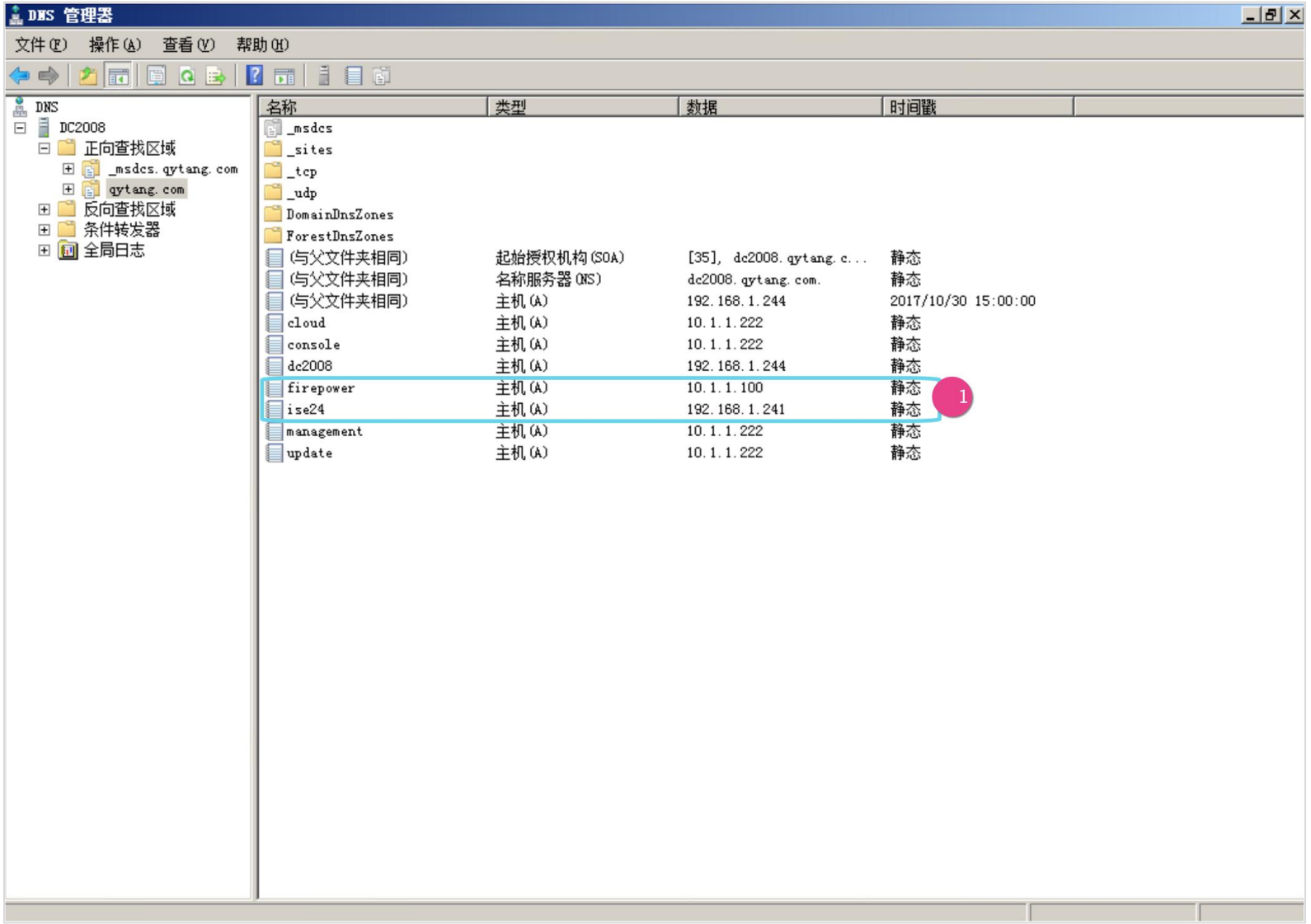


WIN2008 DNS配置



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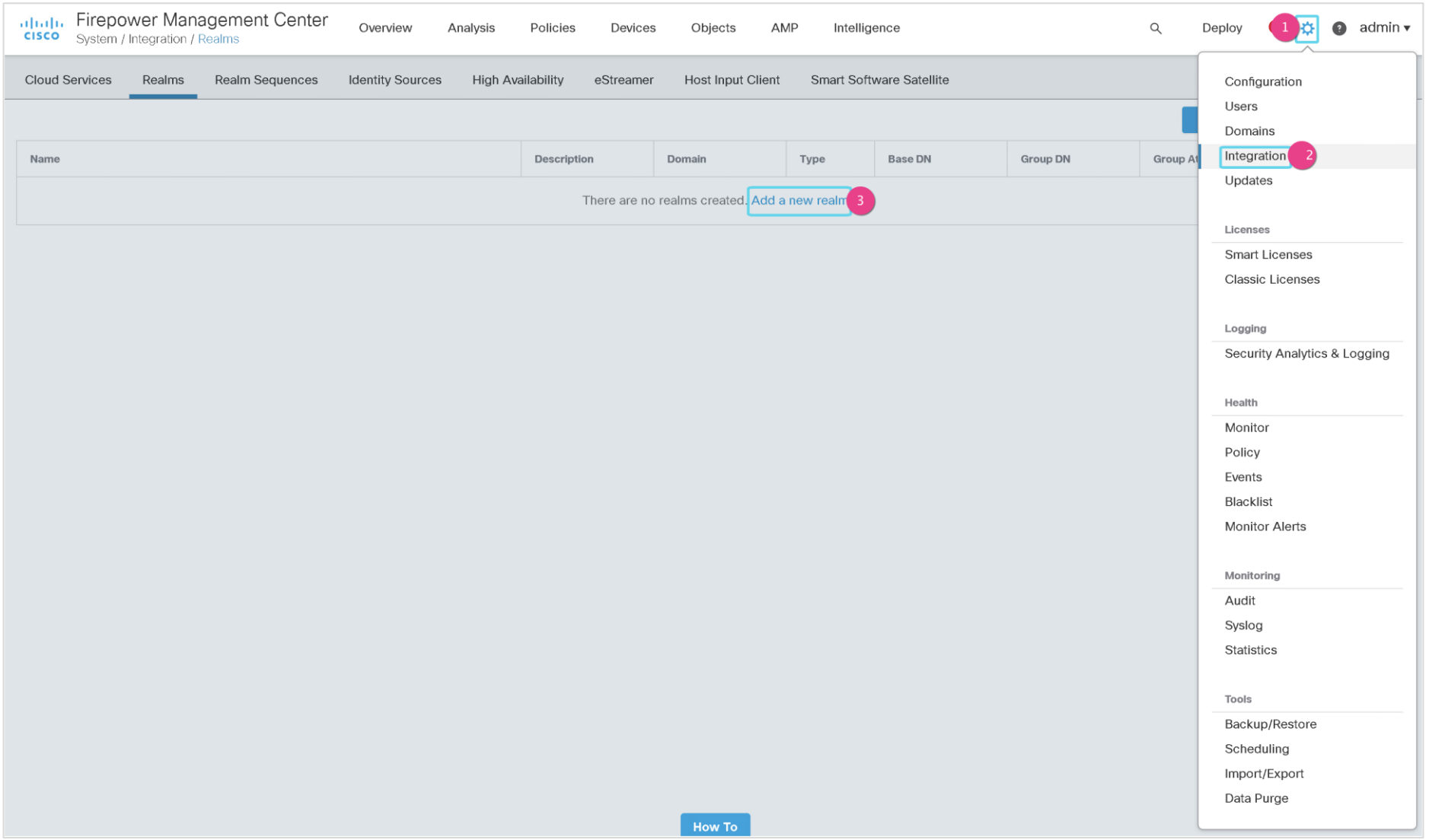

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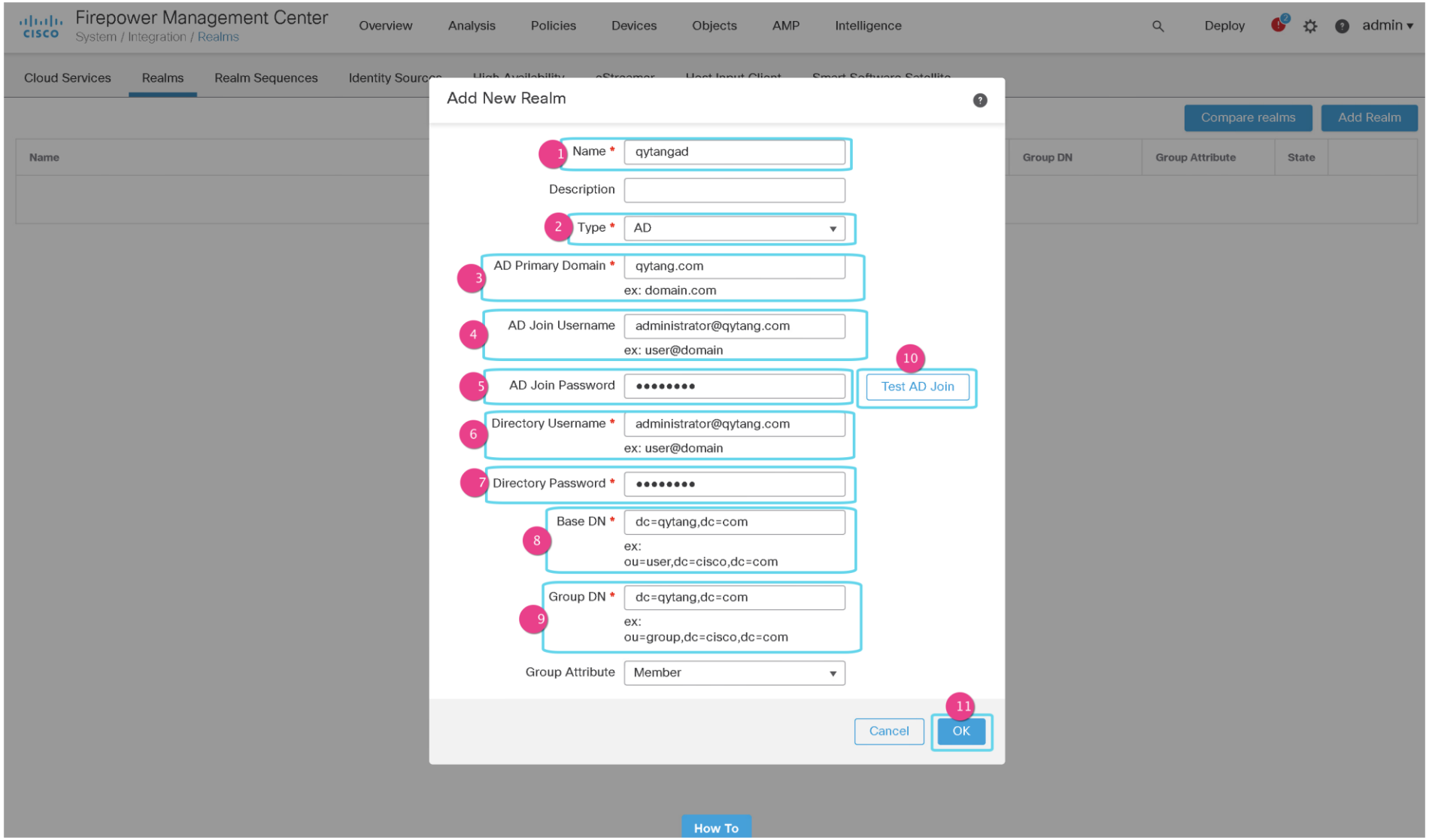

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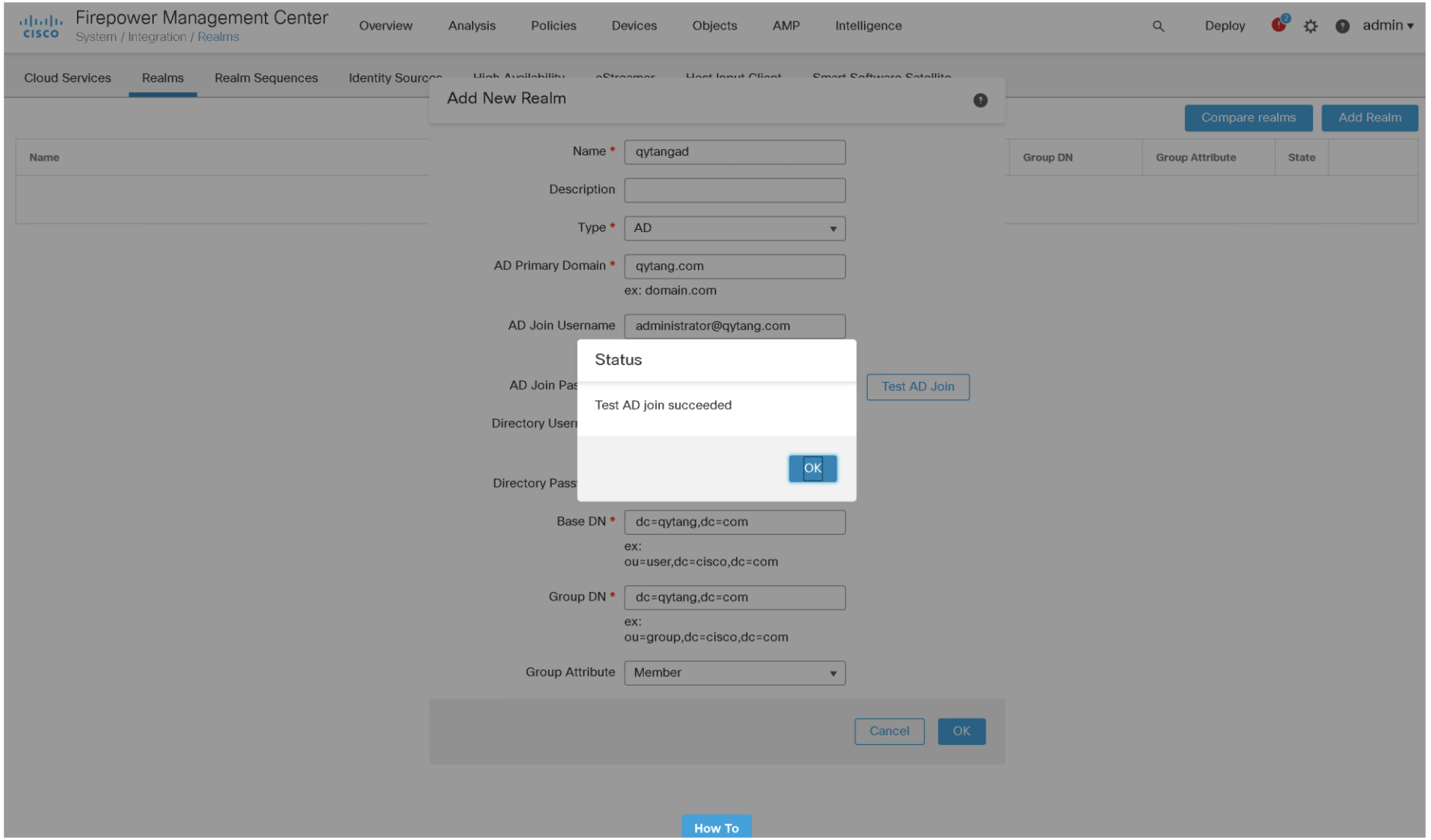

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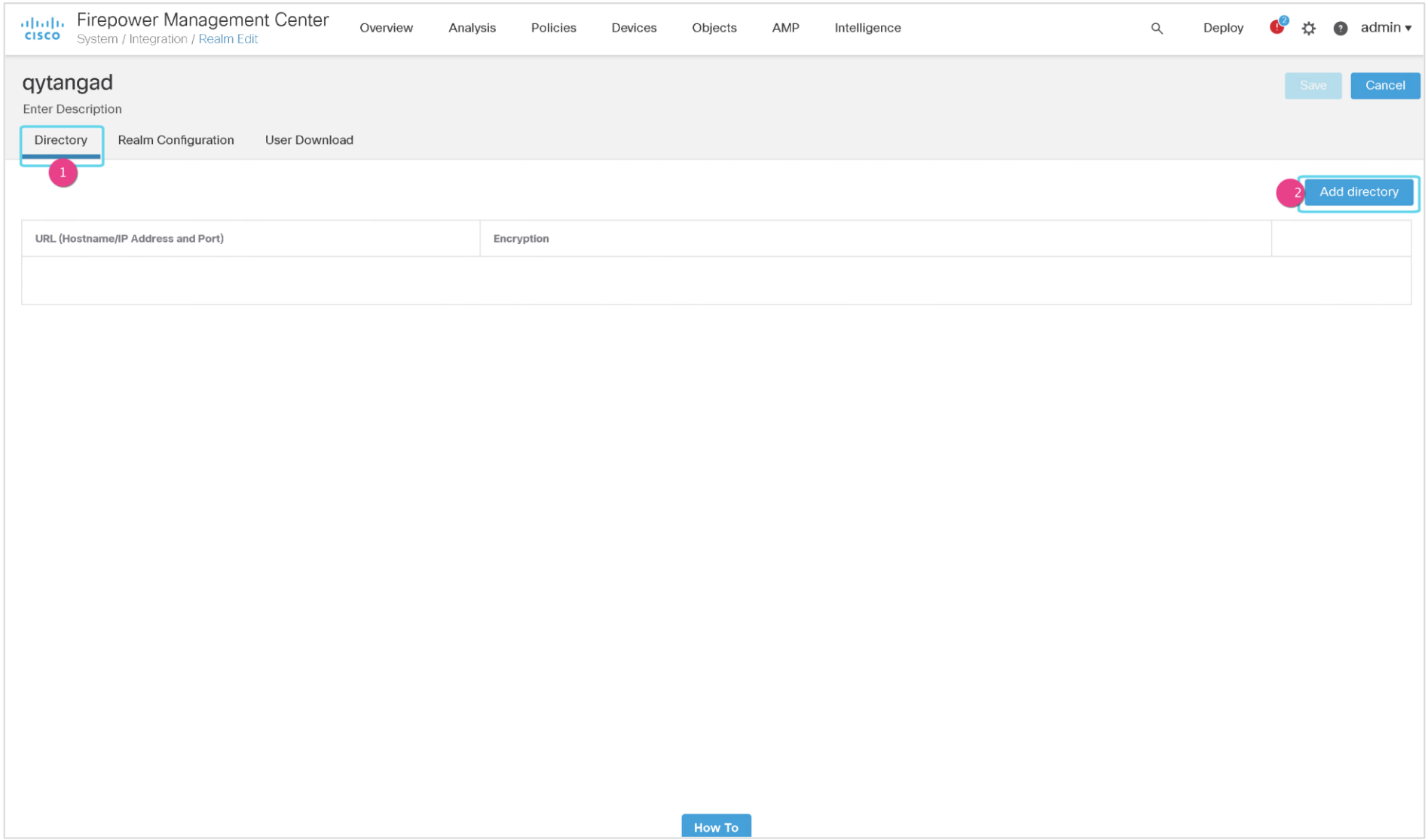

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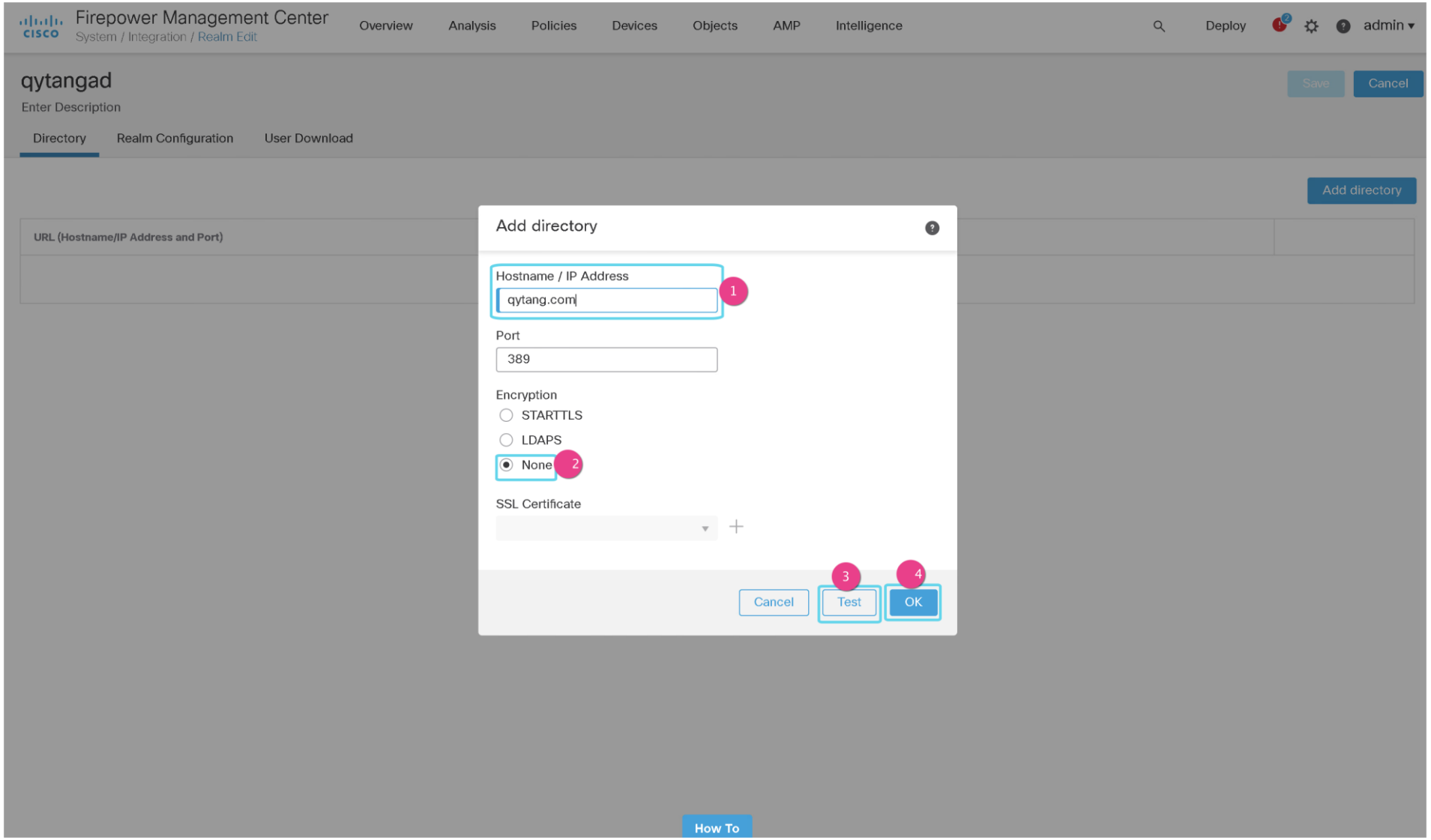

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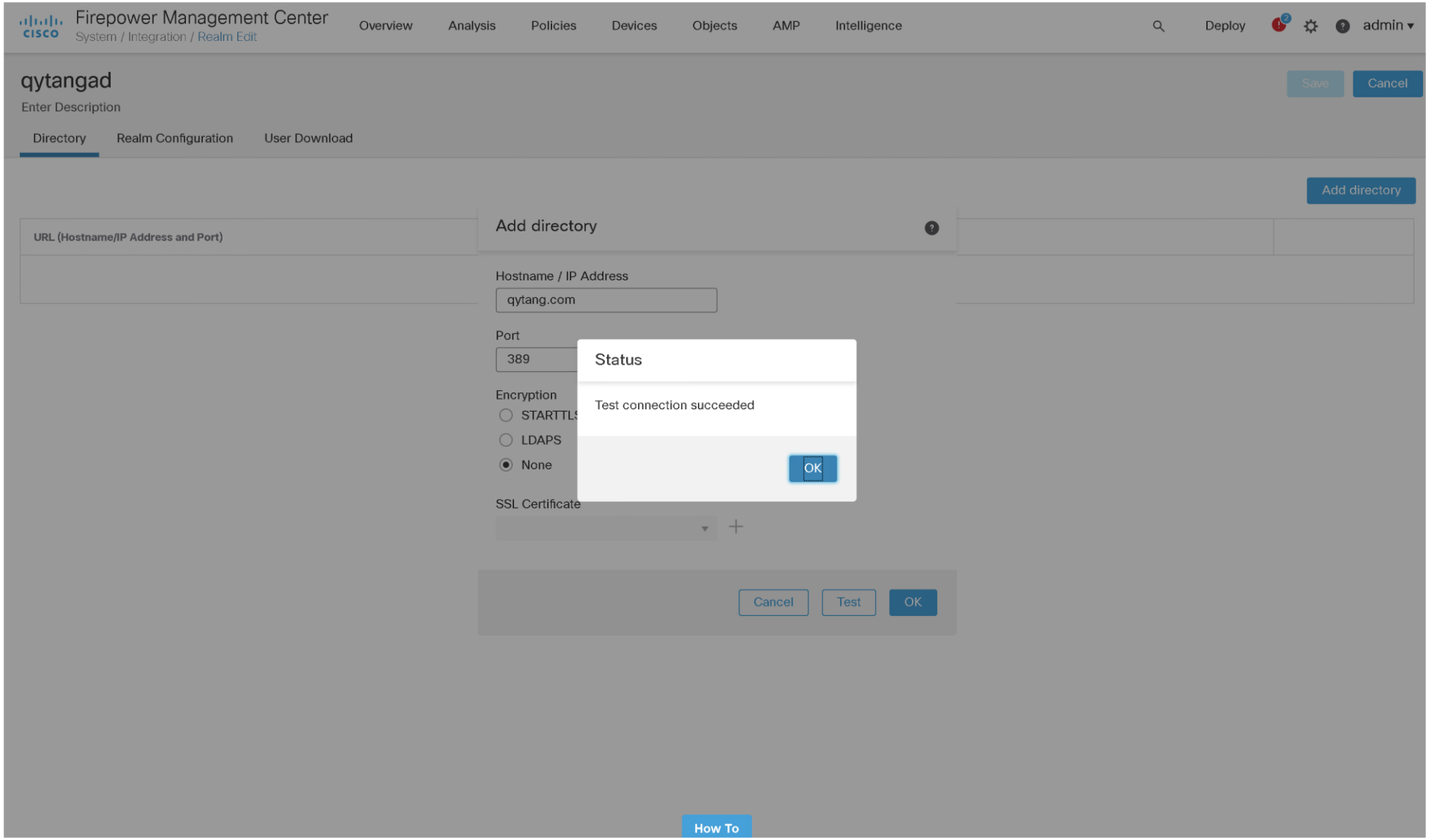

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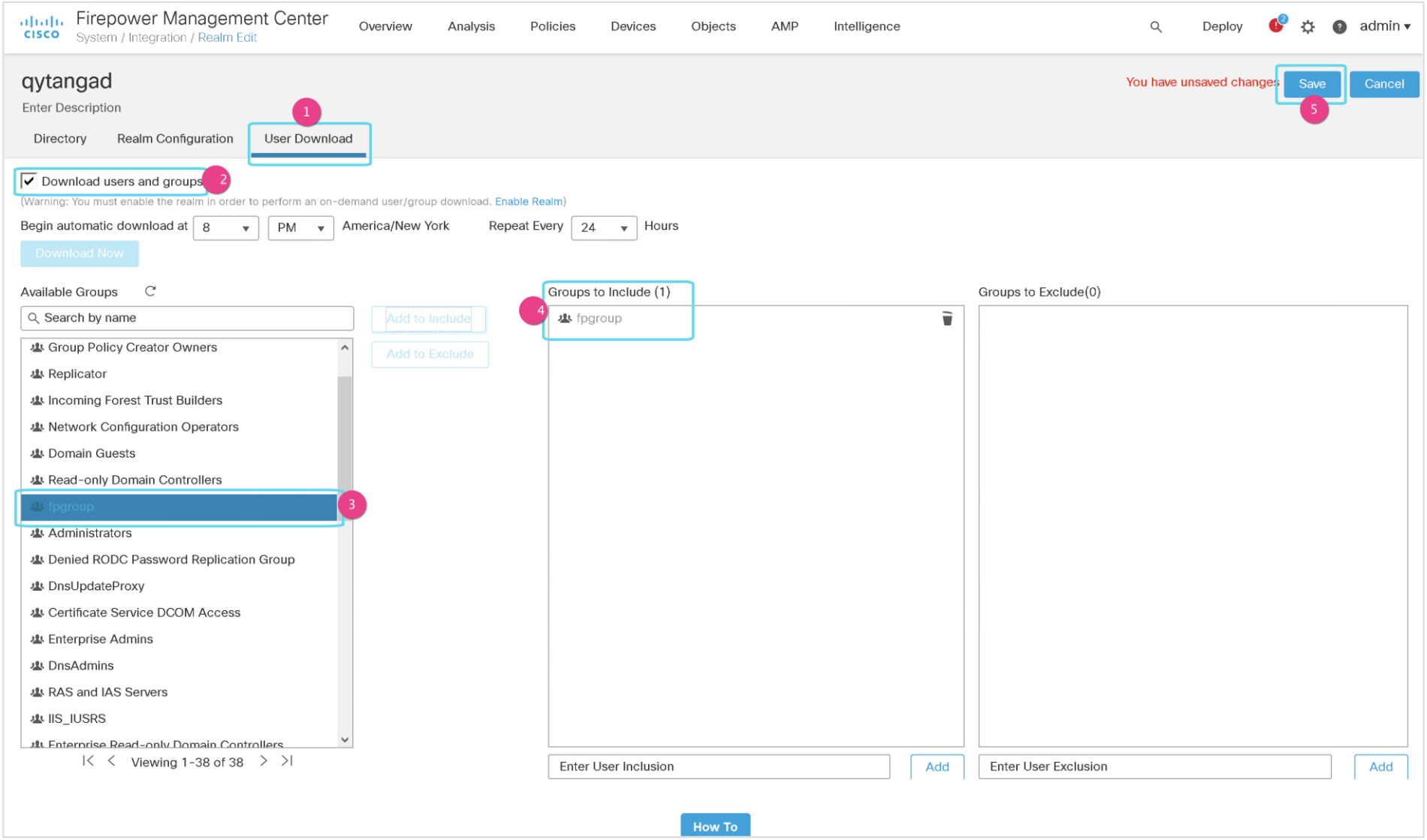

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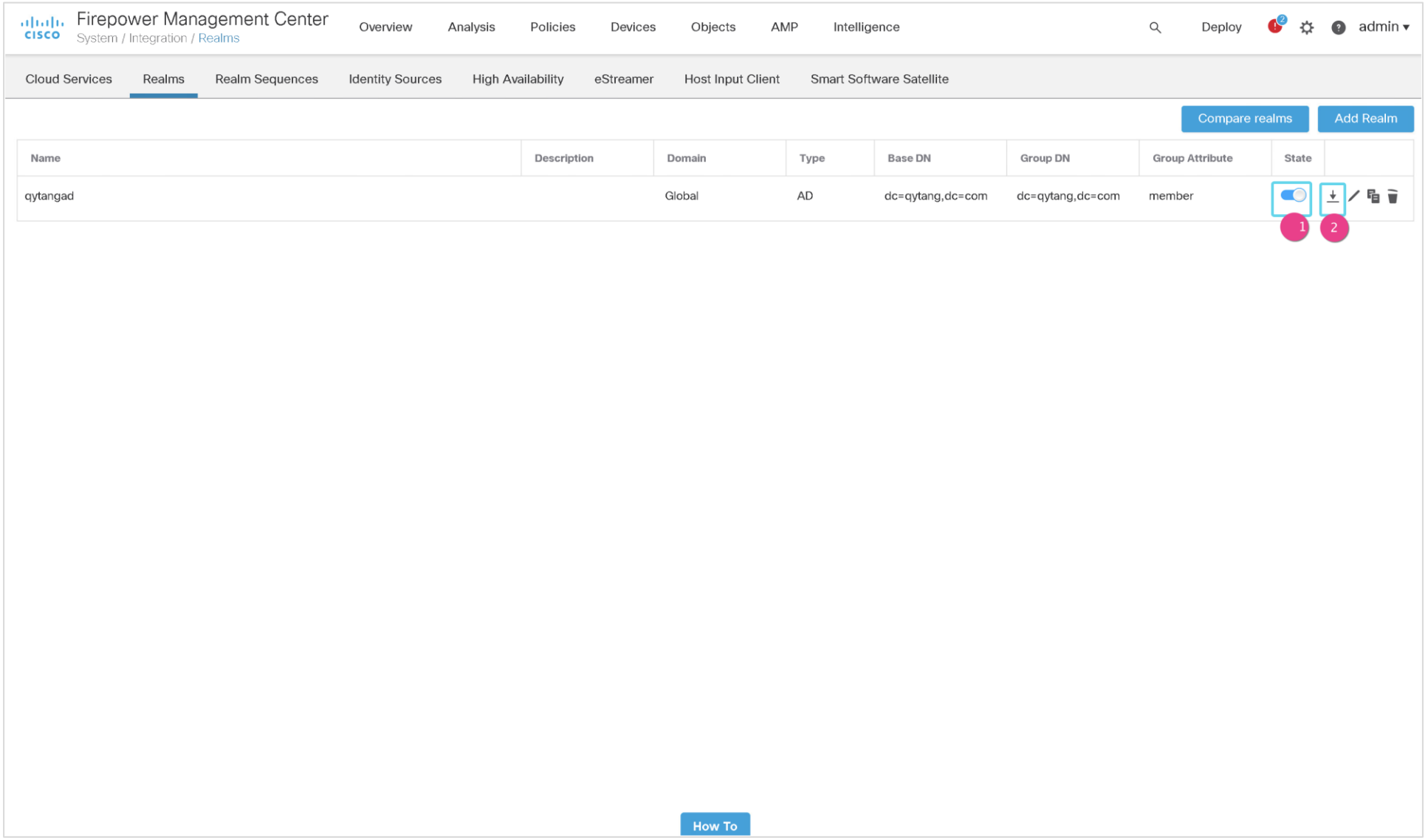

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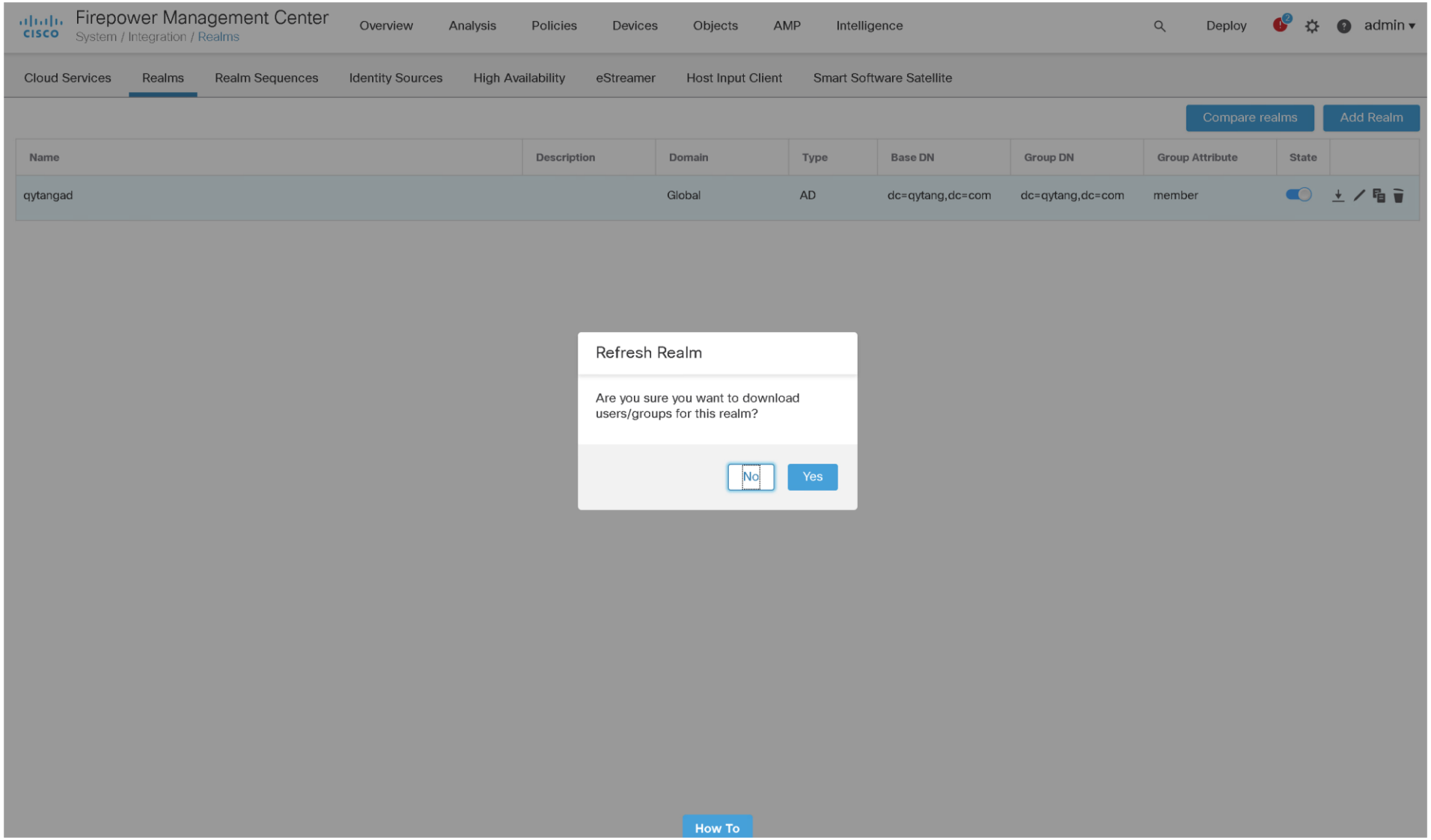

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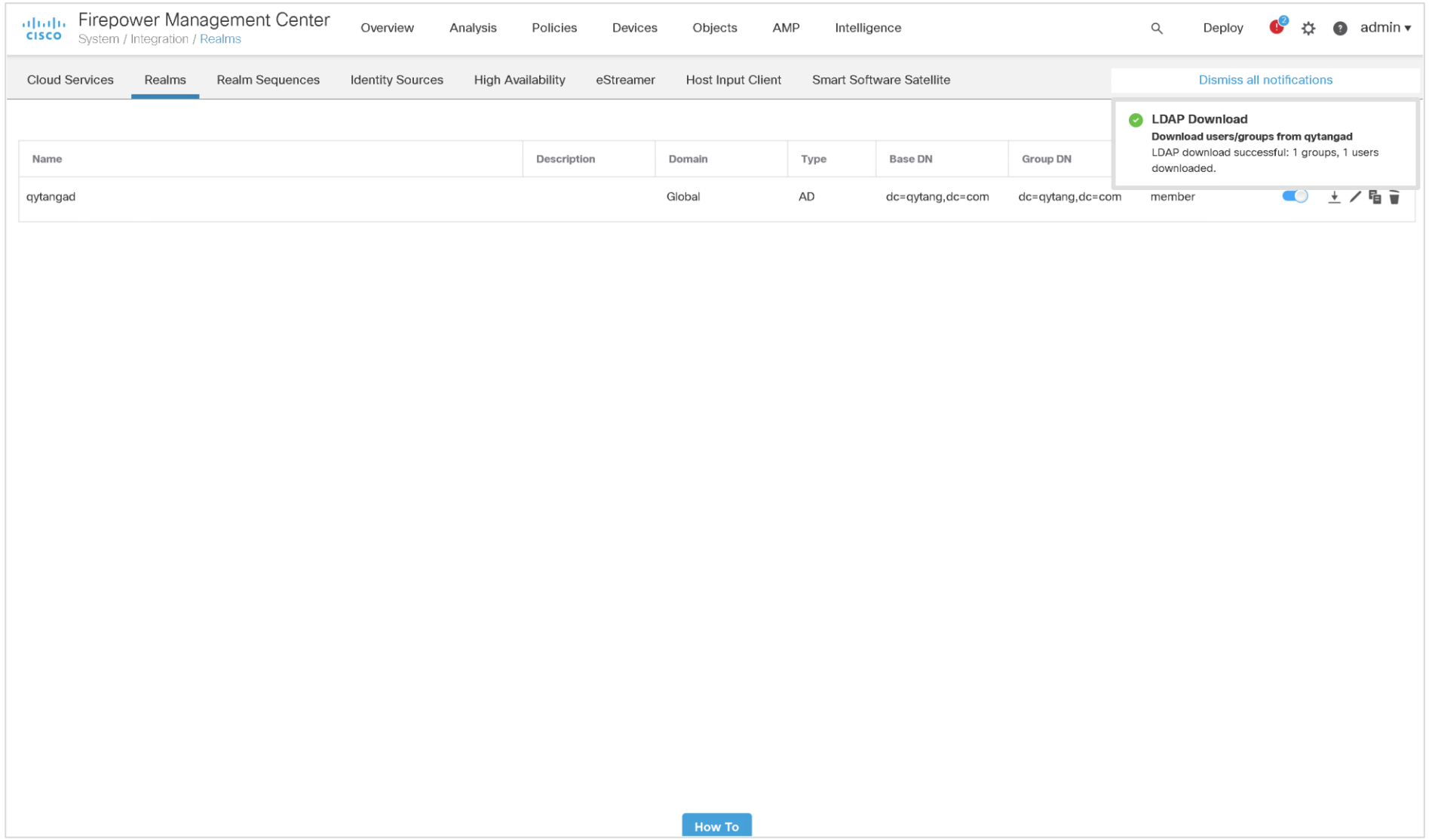

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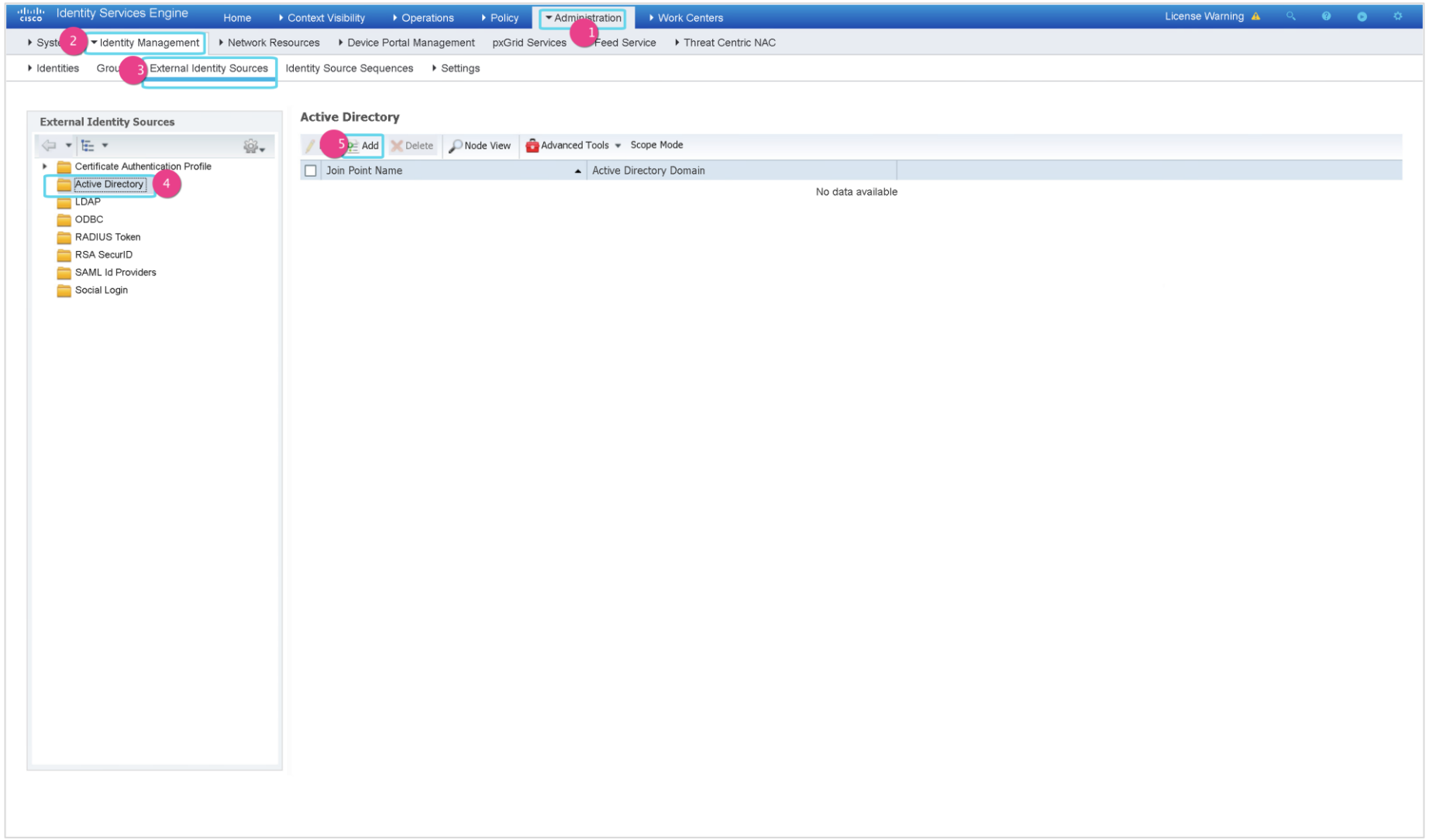

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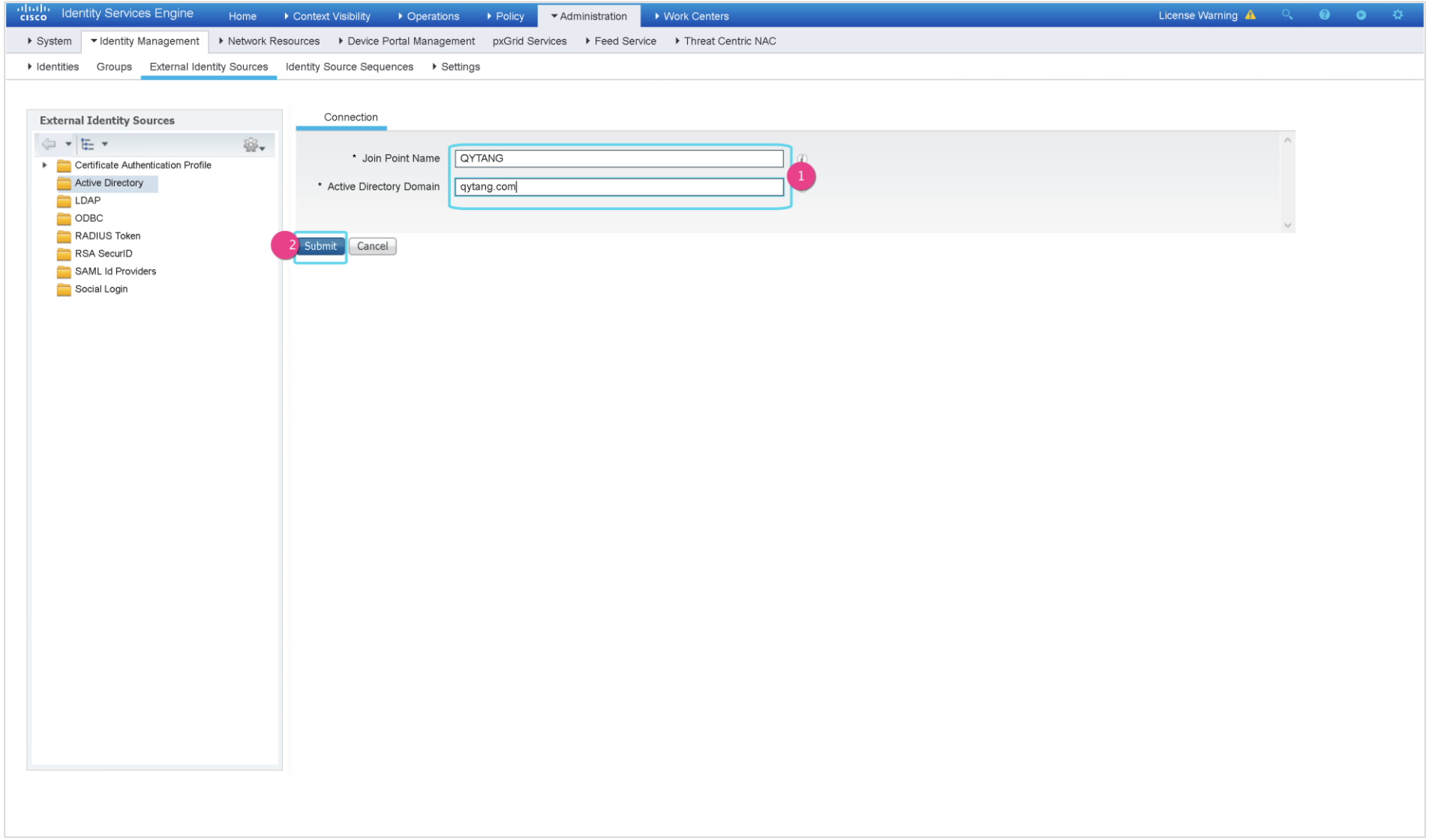

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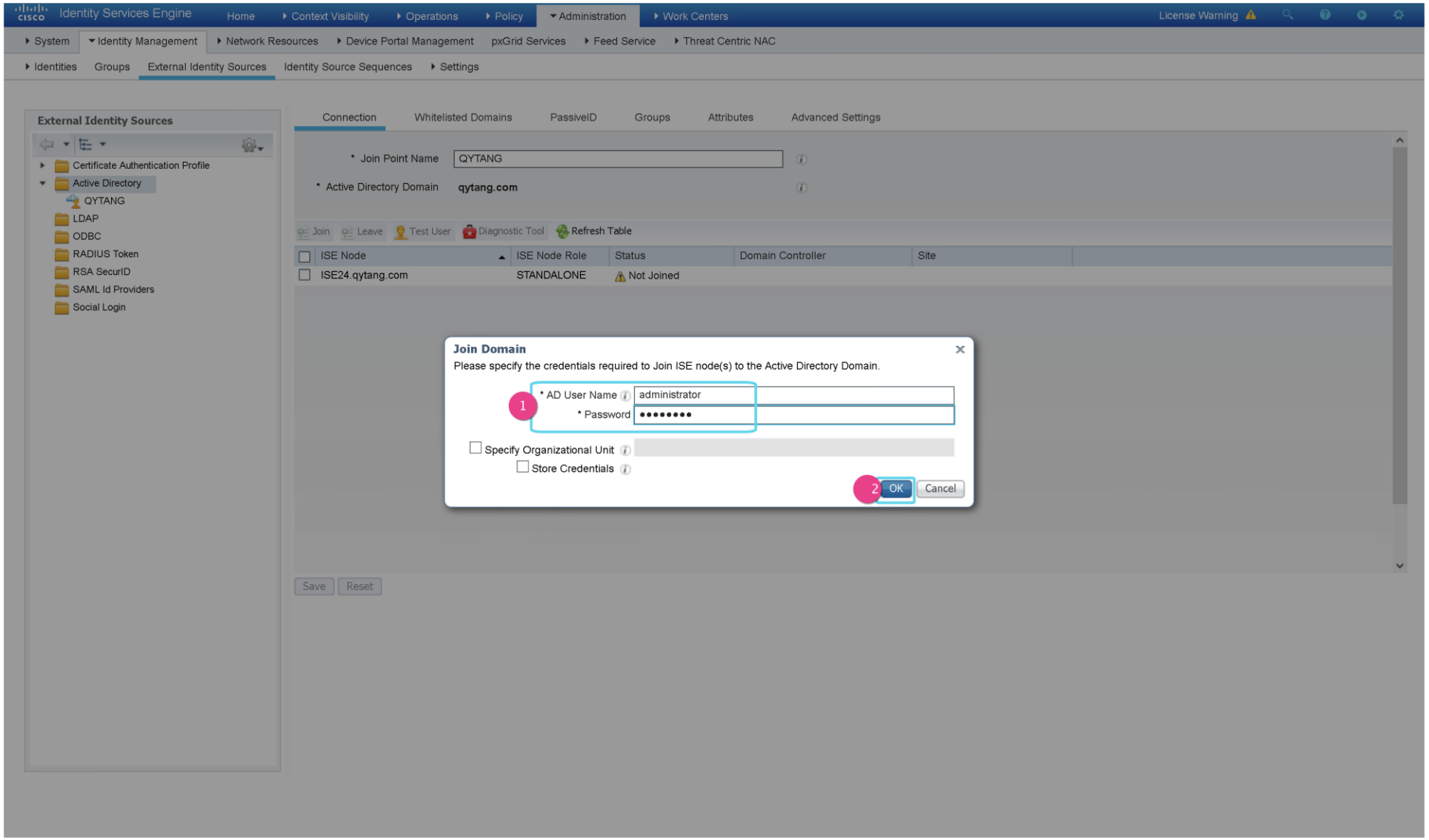

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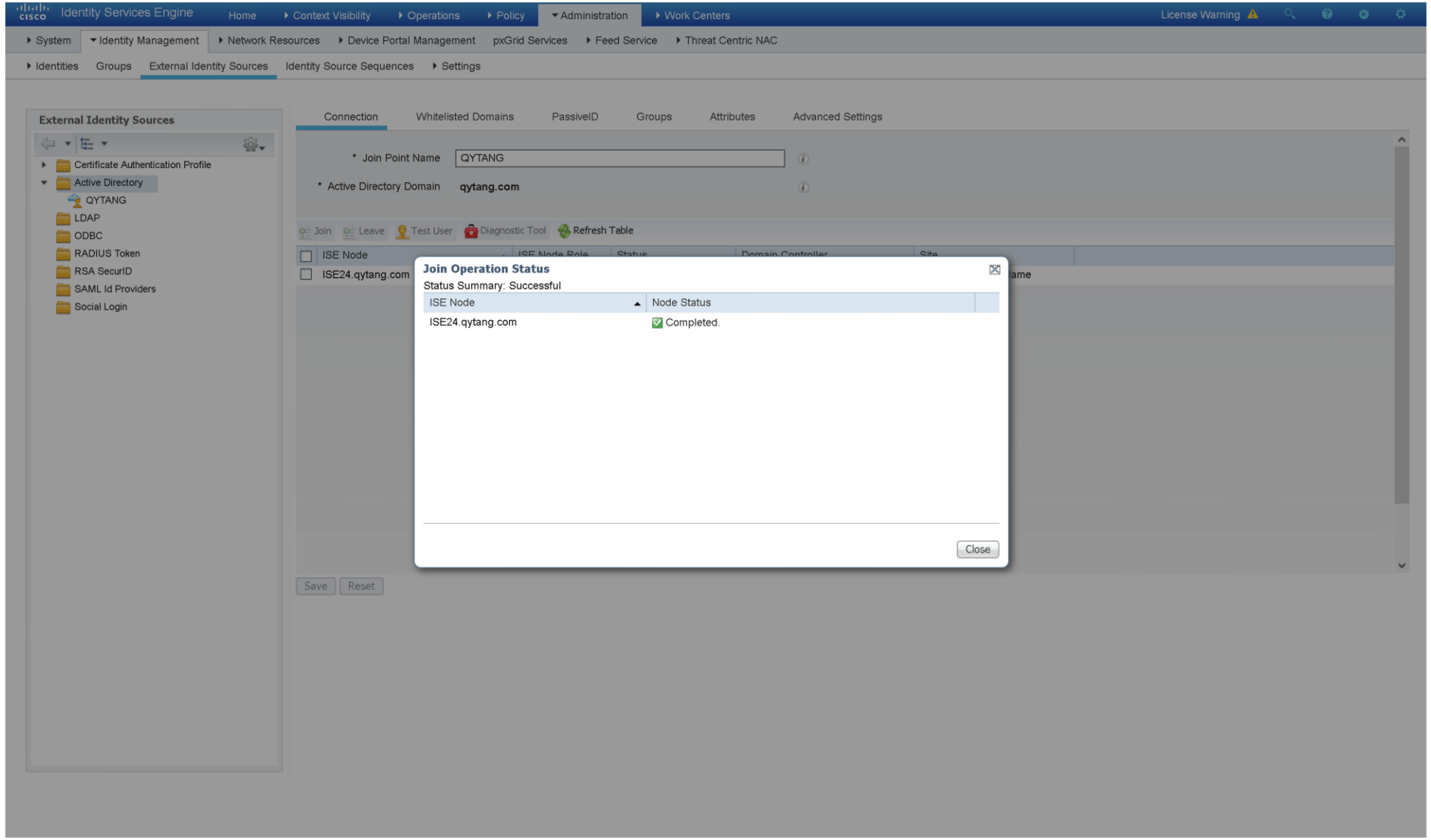

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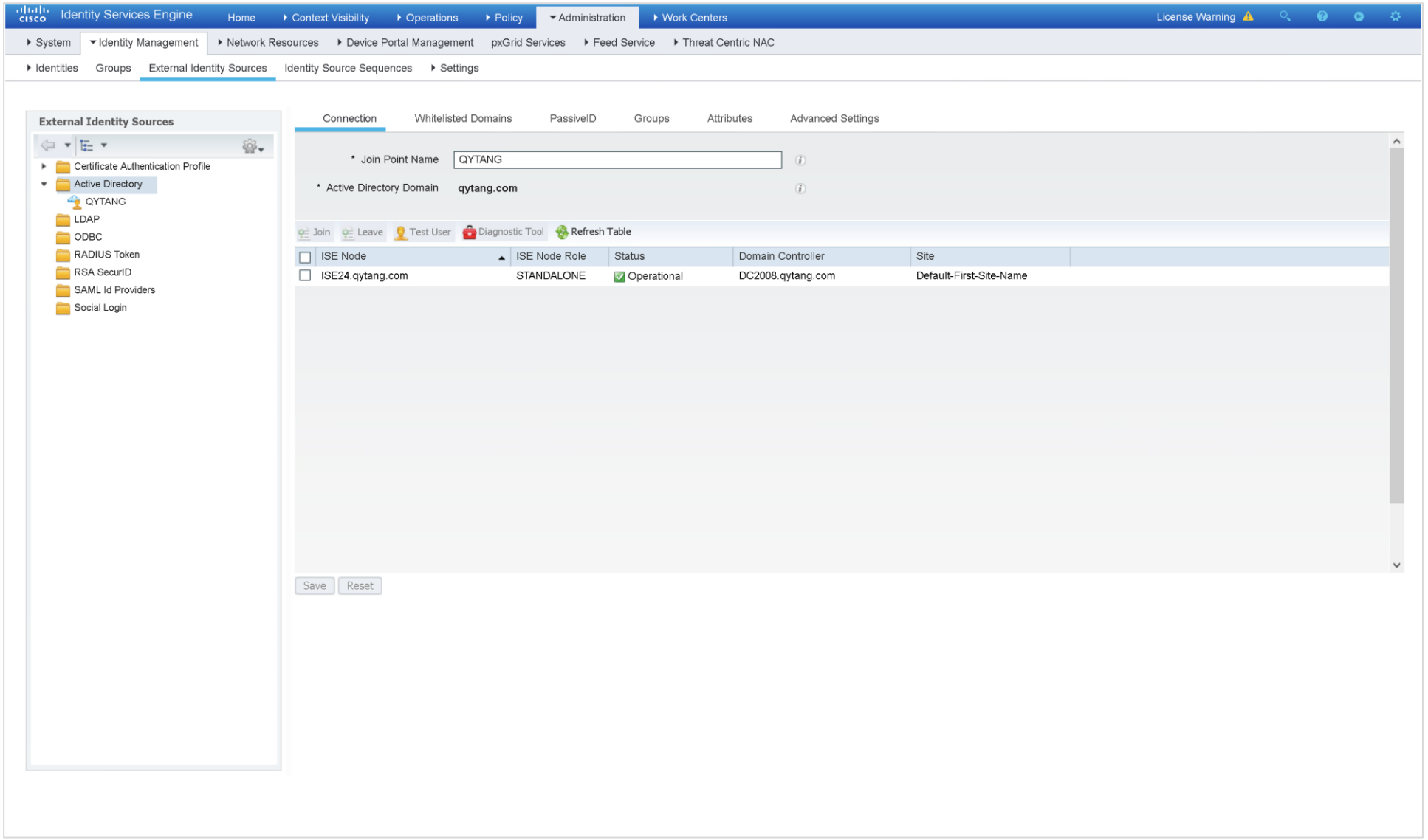

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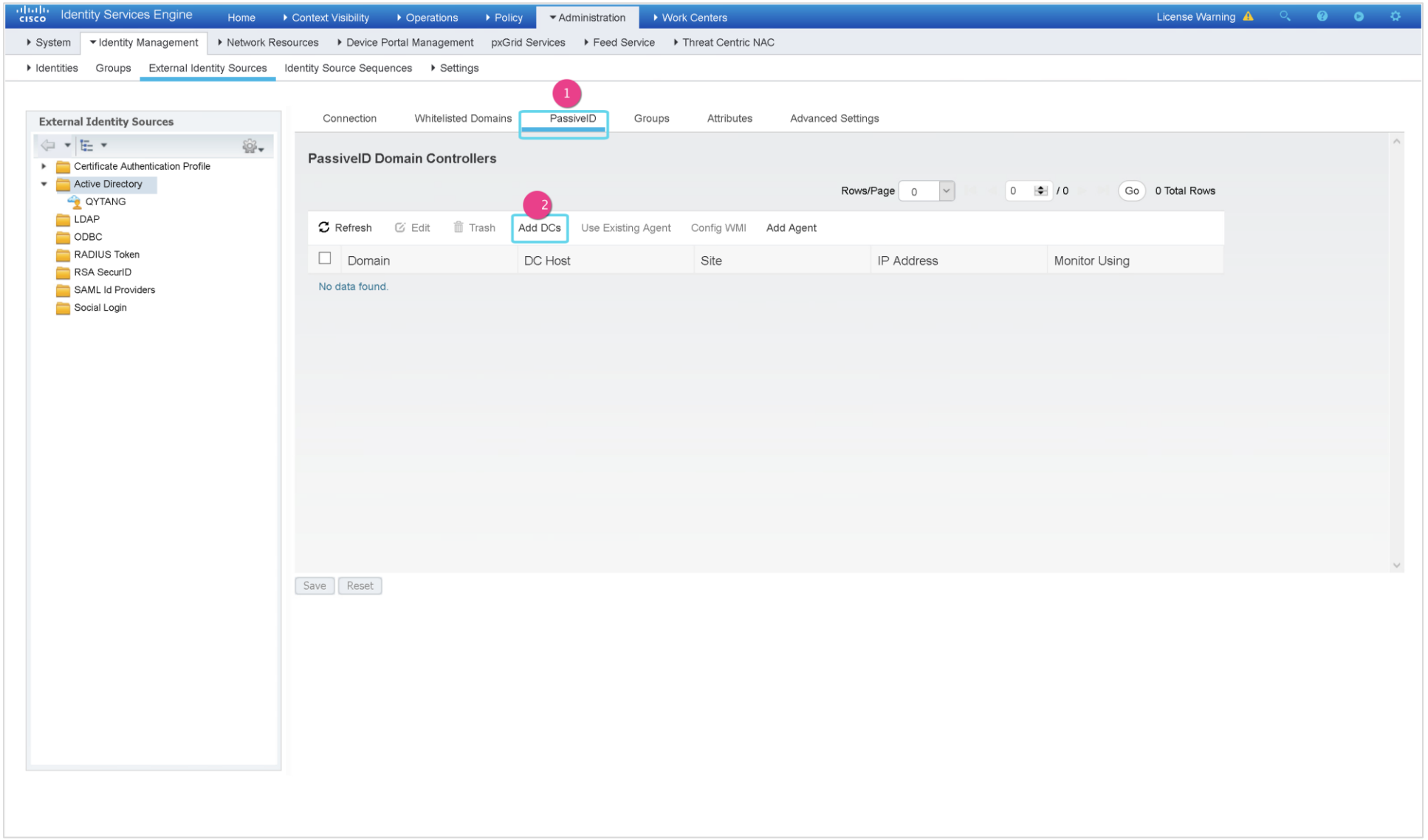

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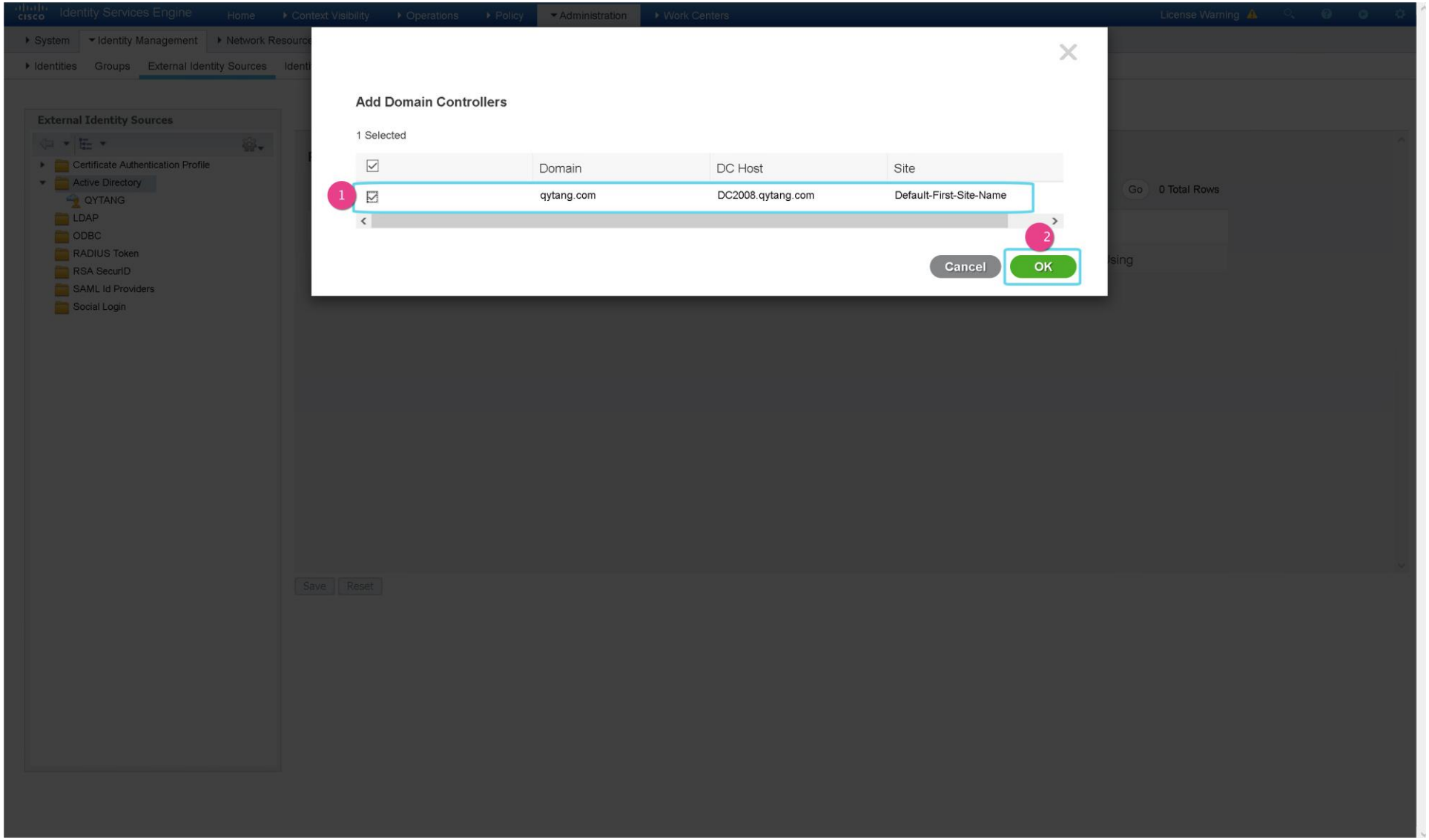

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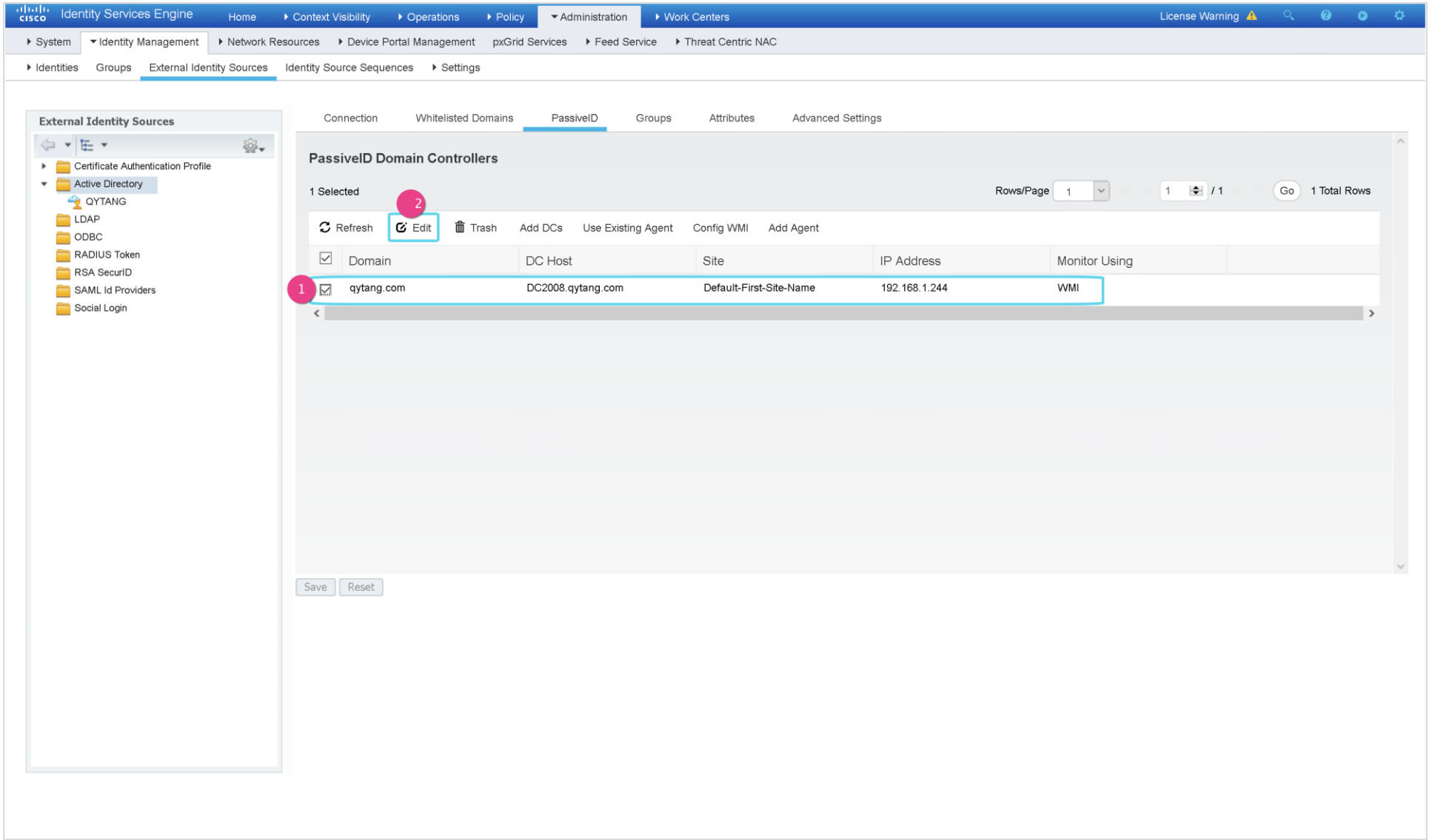

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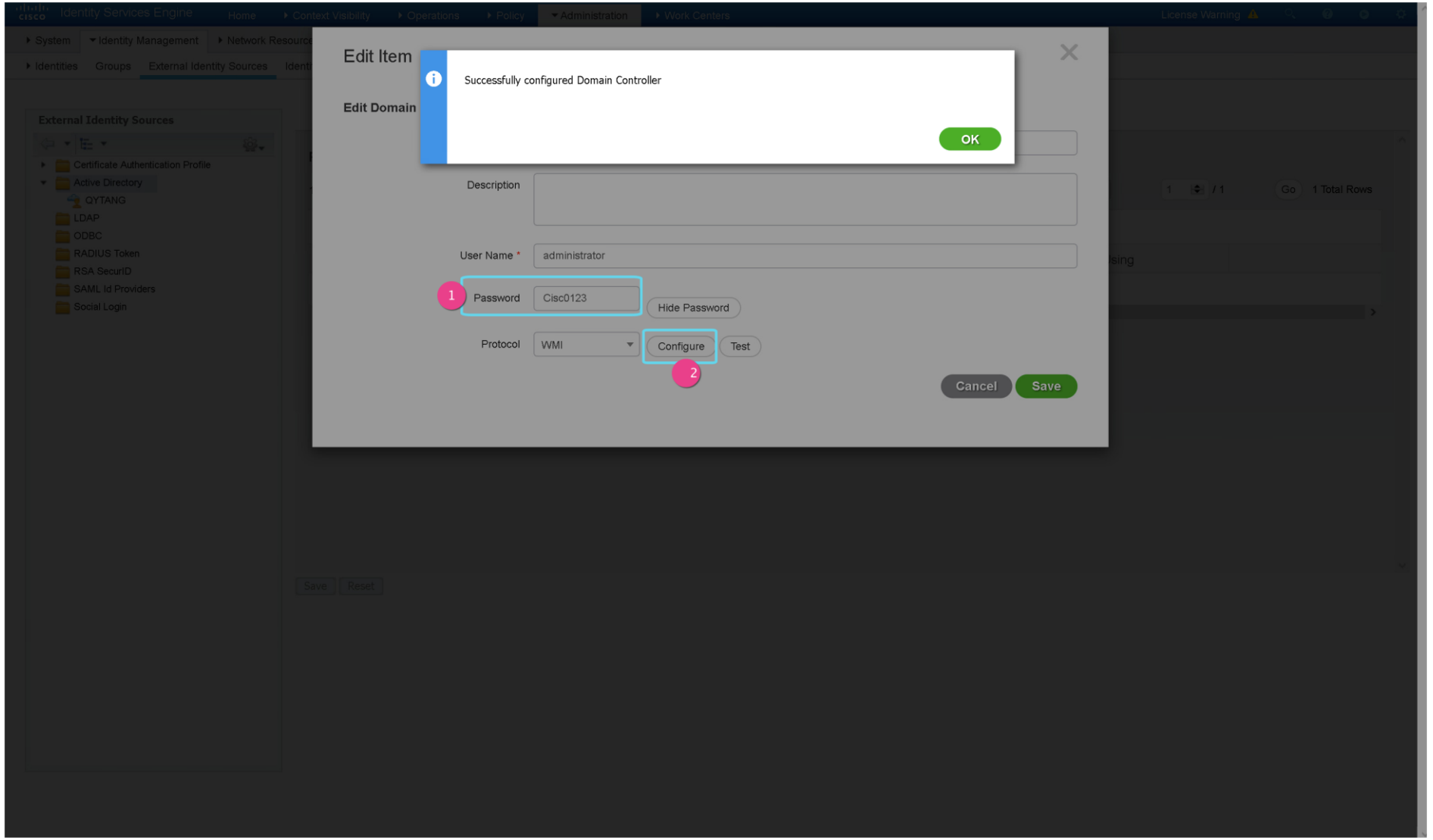

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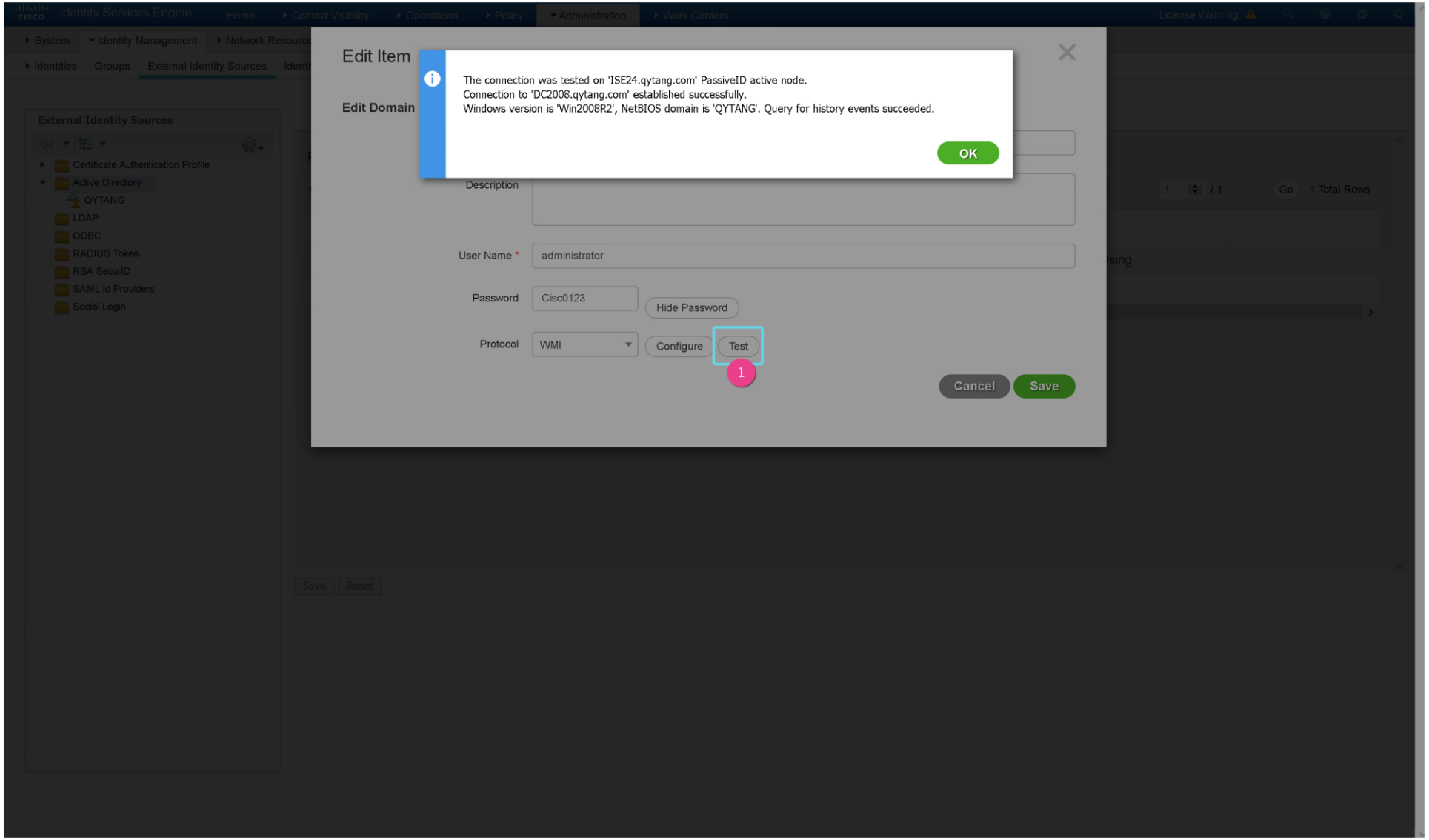

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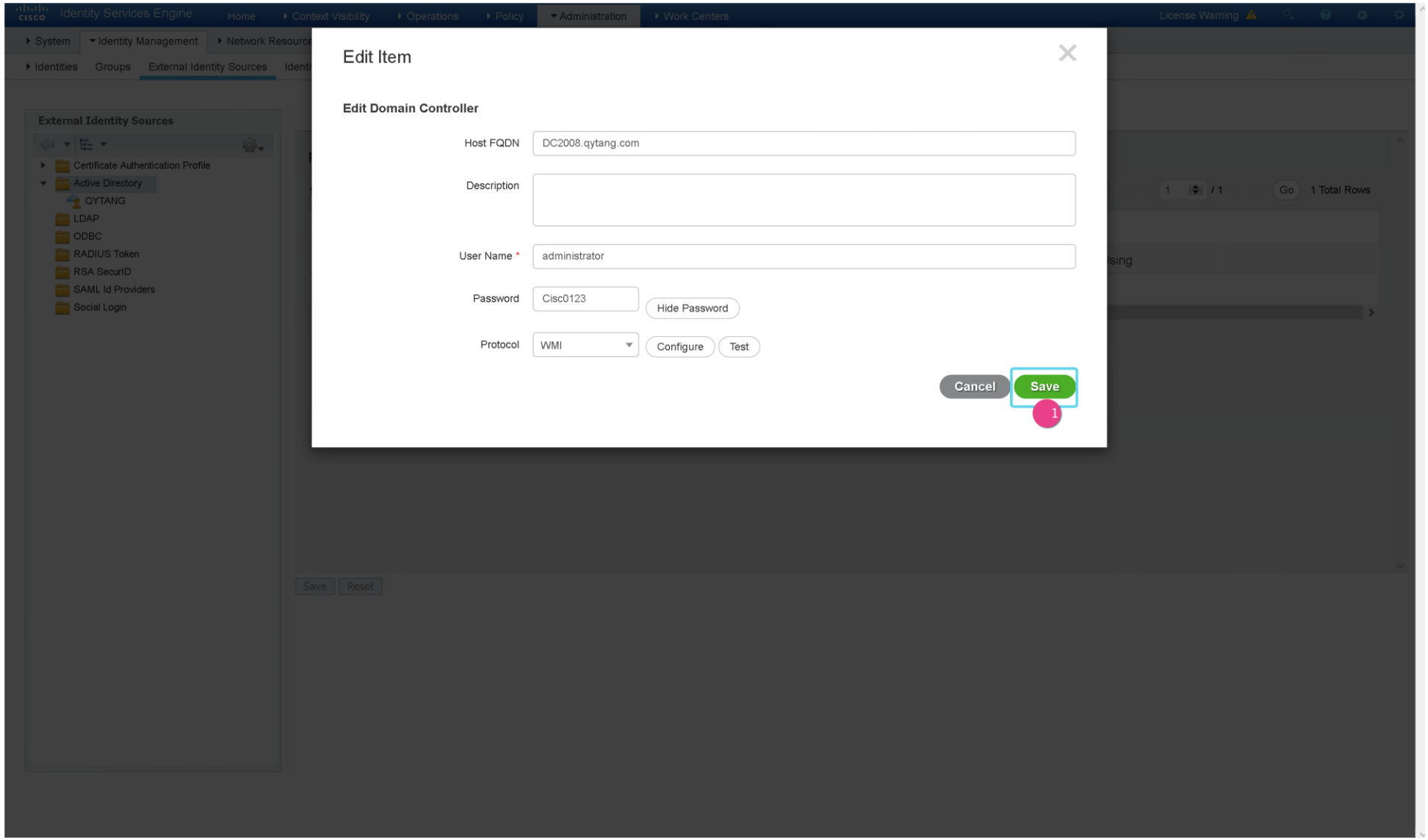

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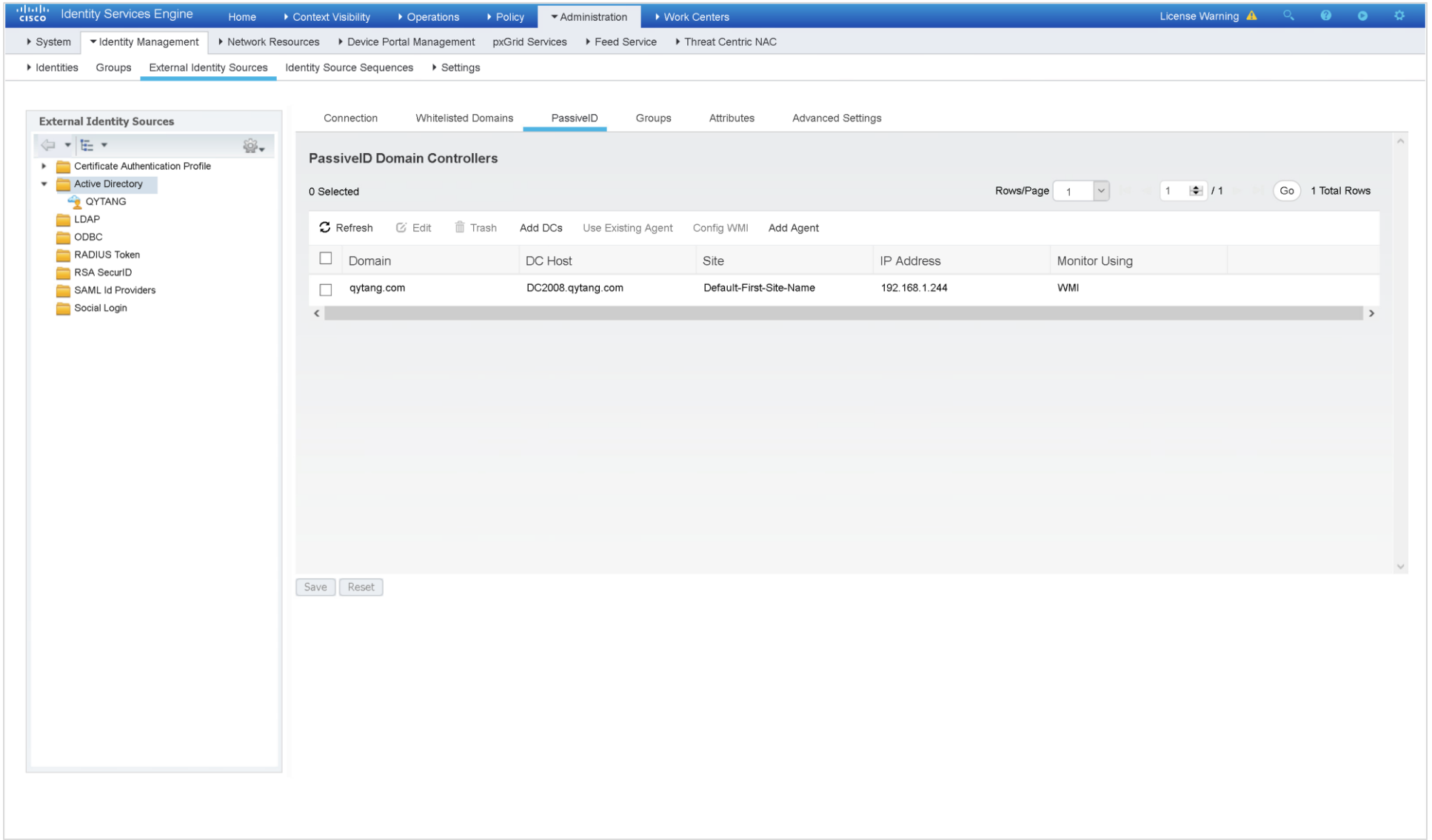
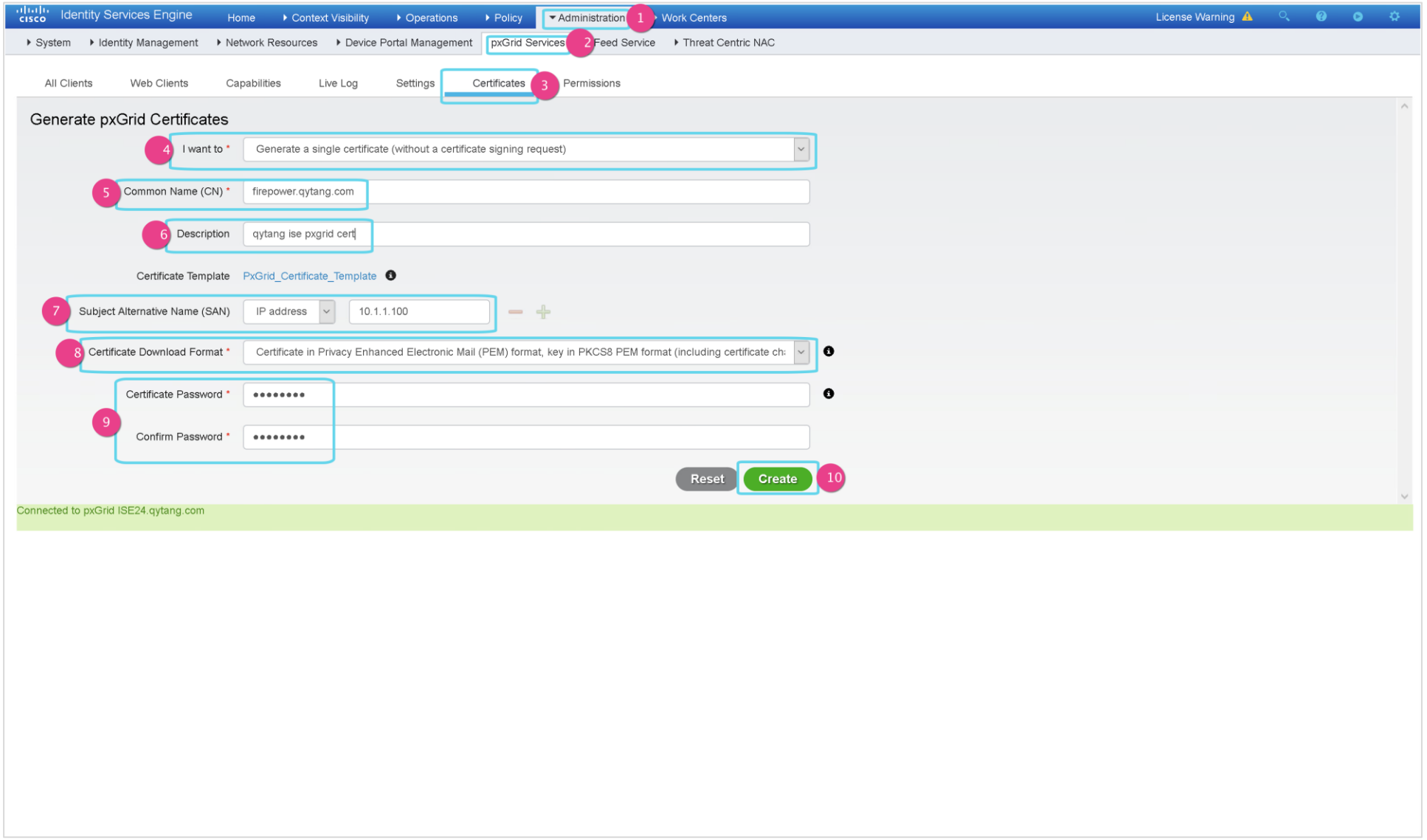


FMC与ISE之间的PxGrid(证书)



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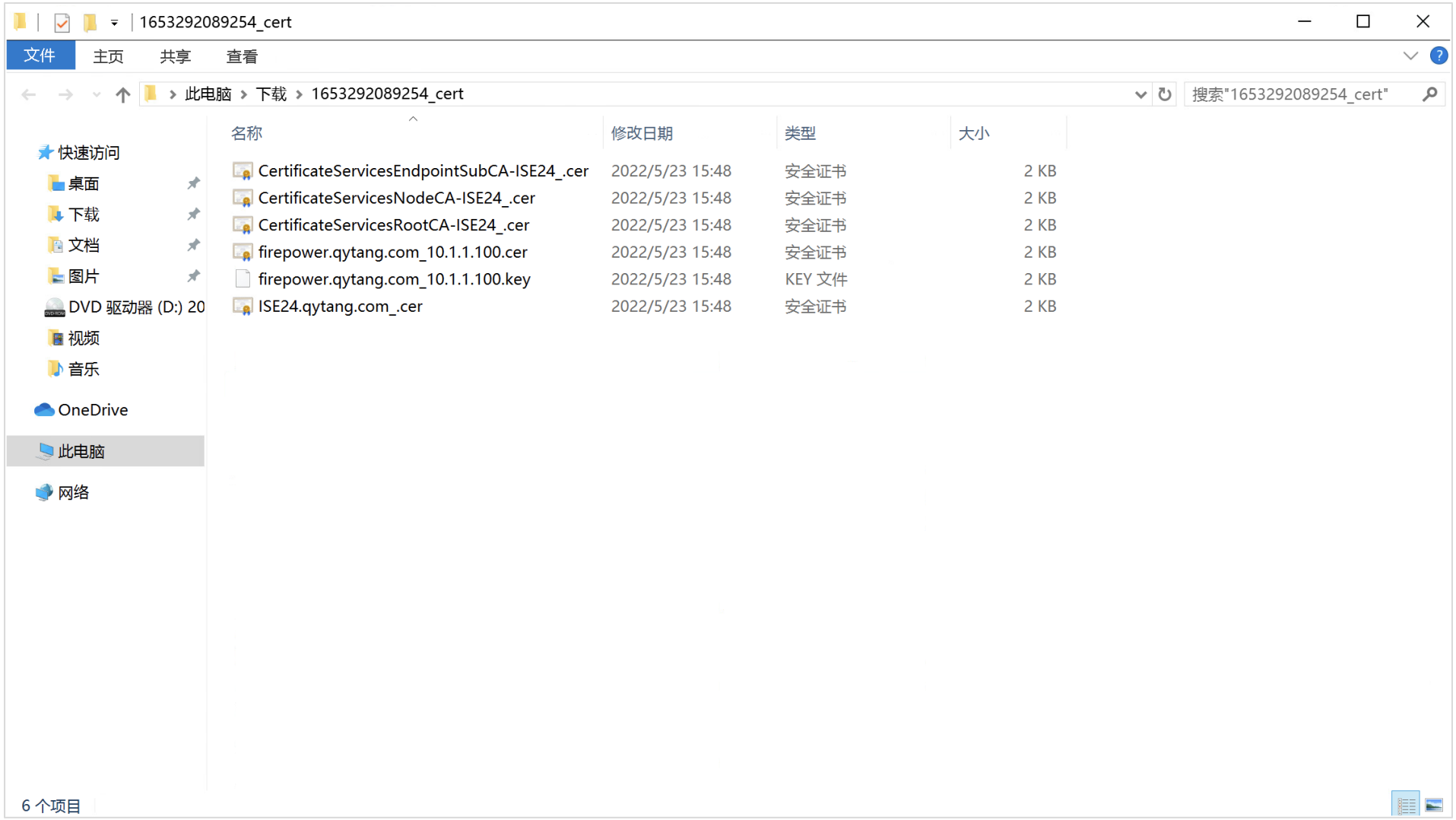

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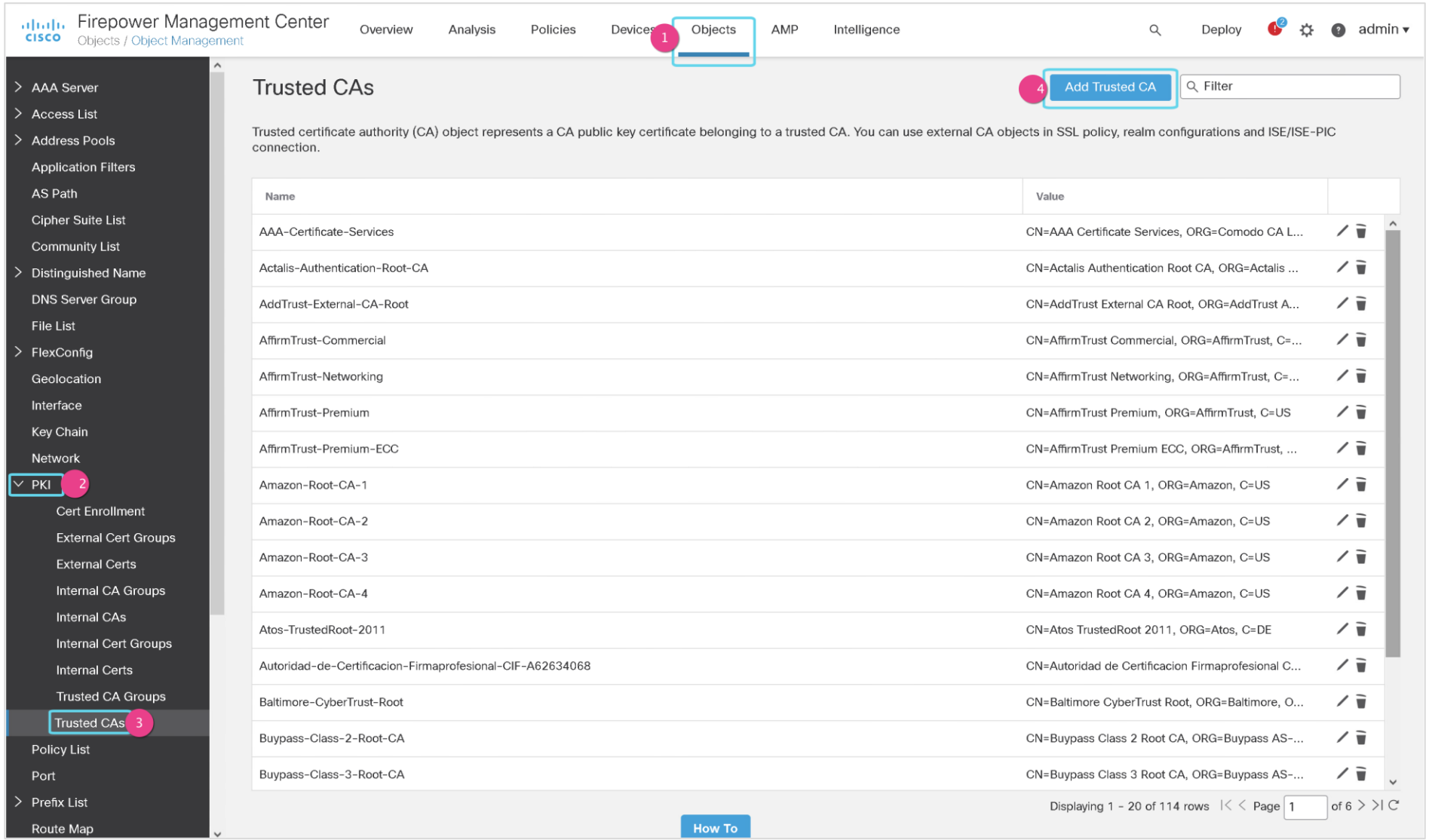

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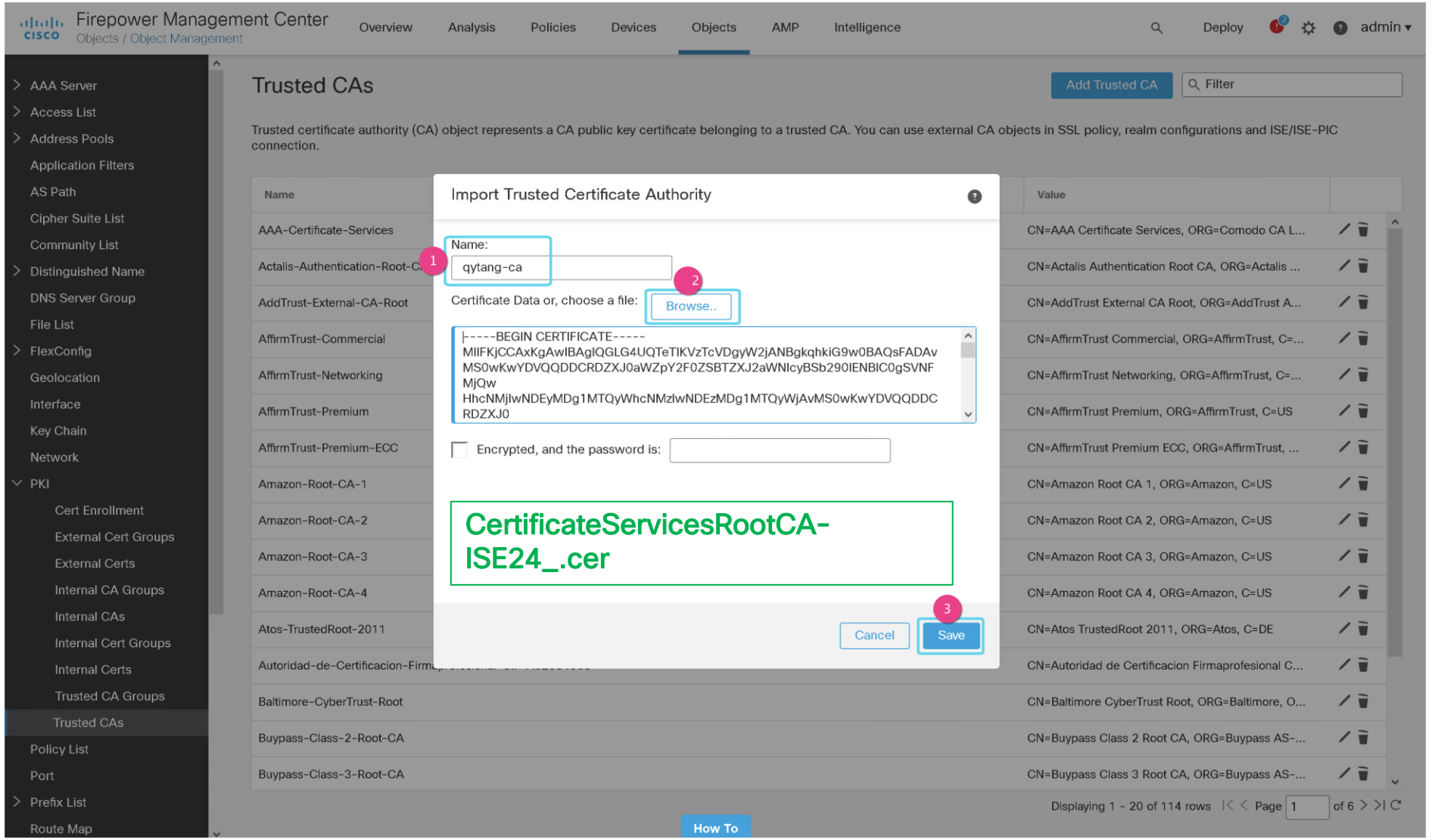

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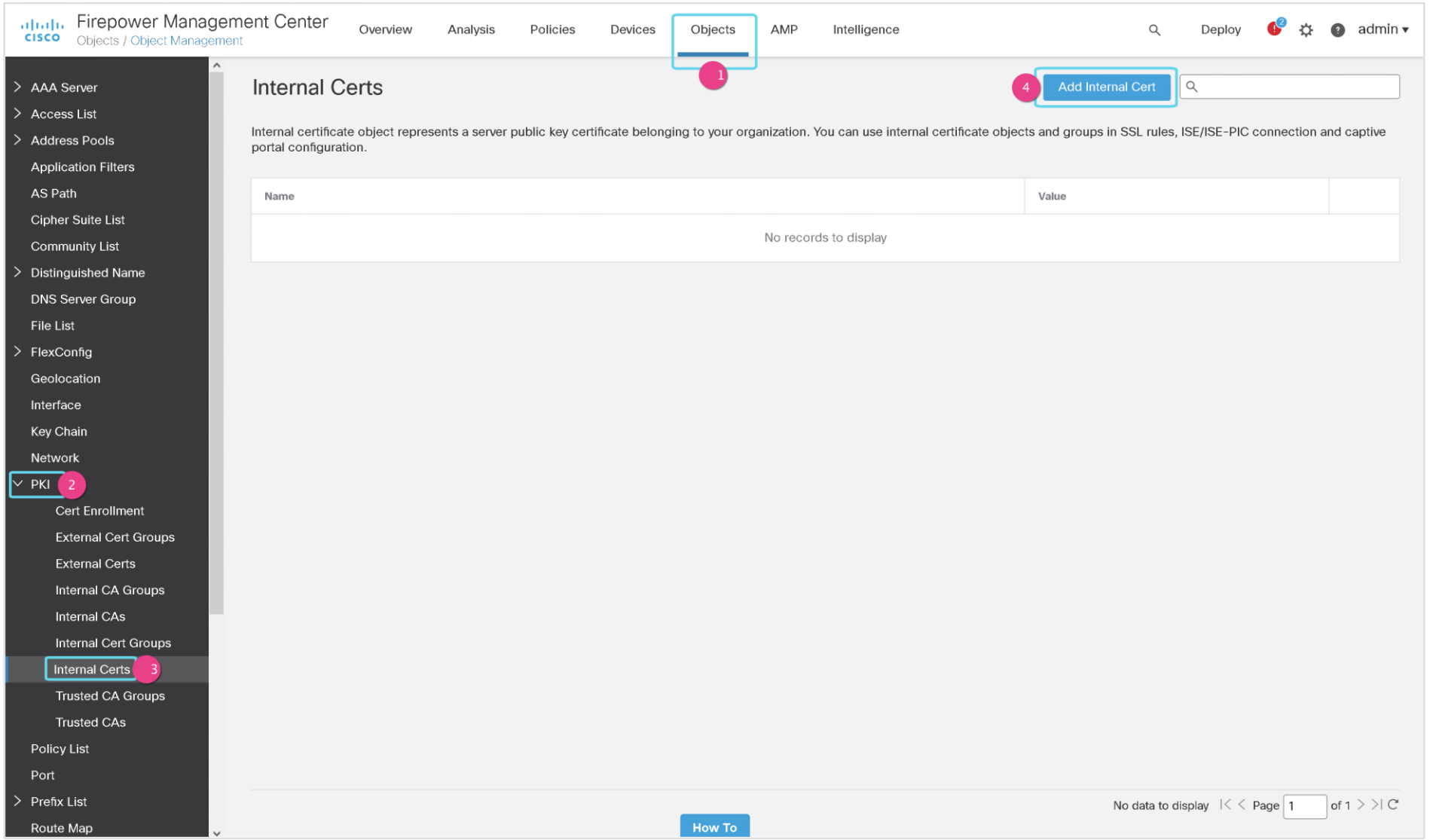

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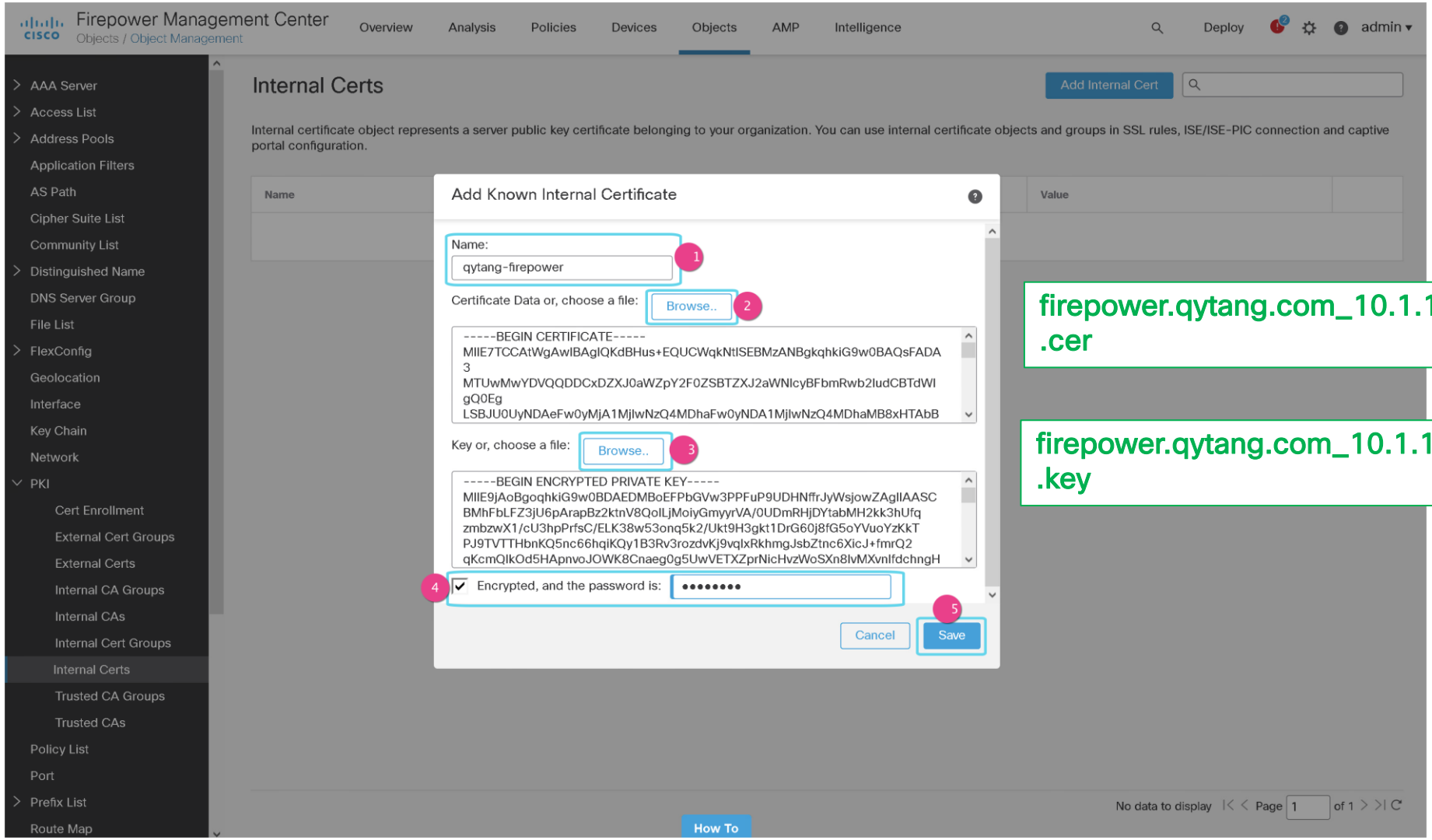

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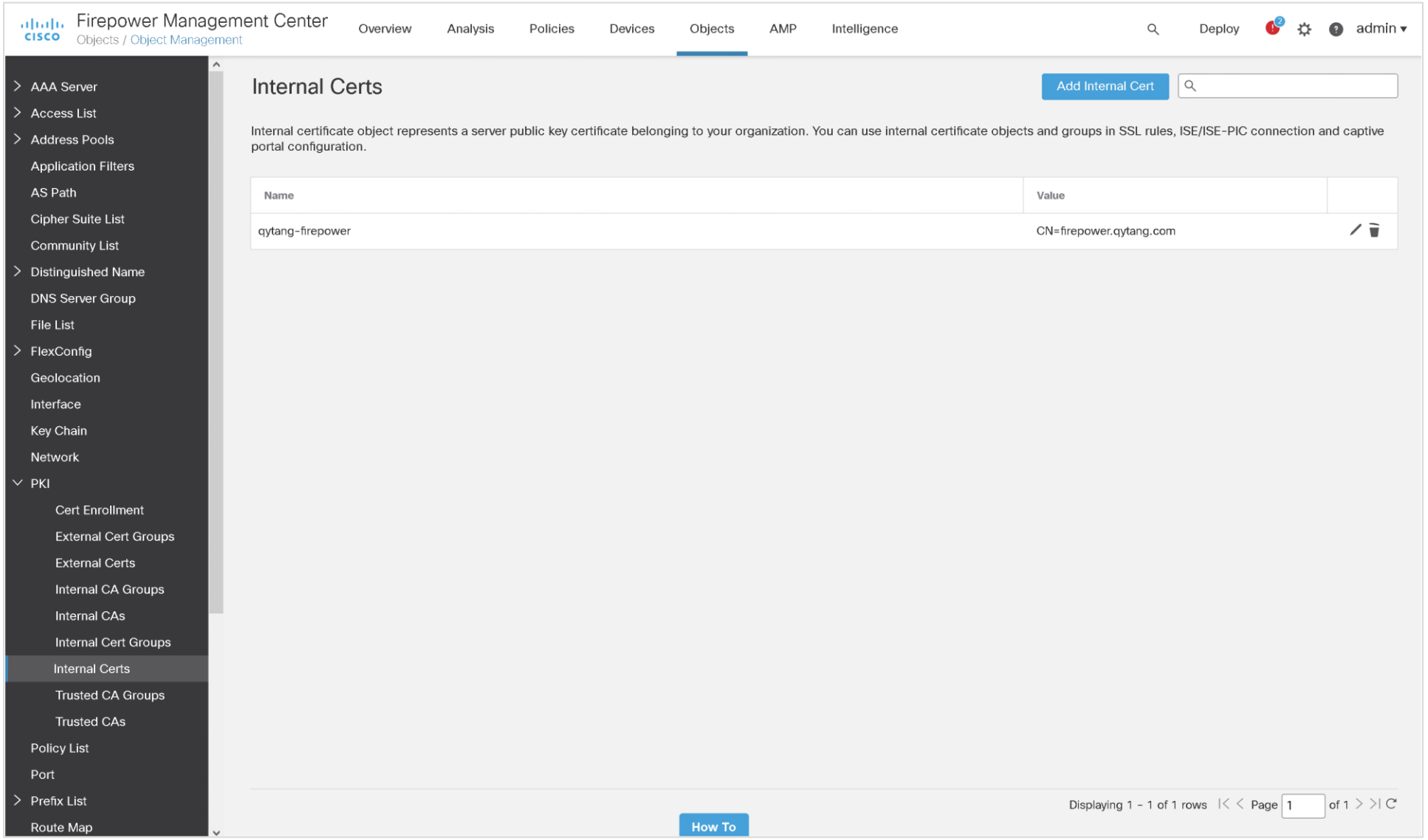
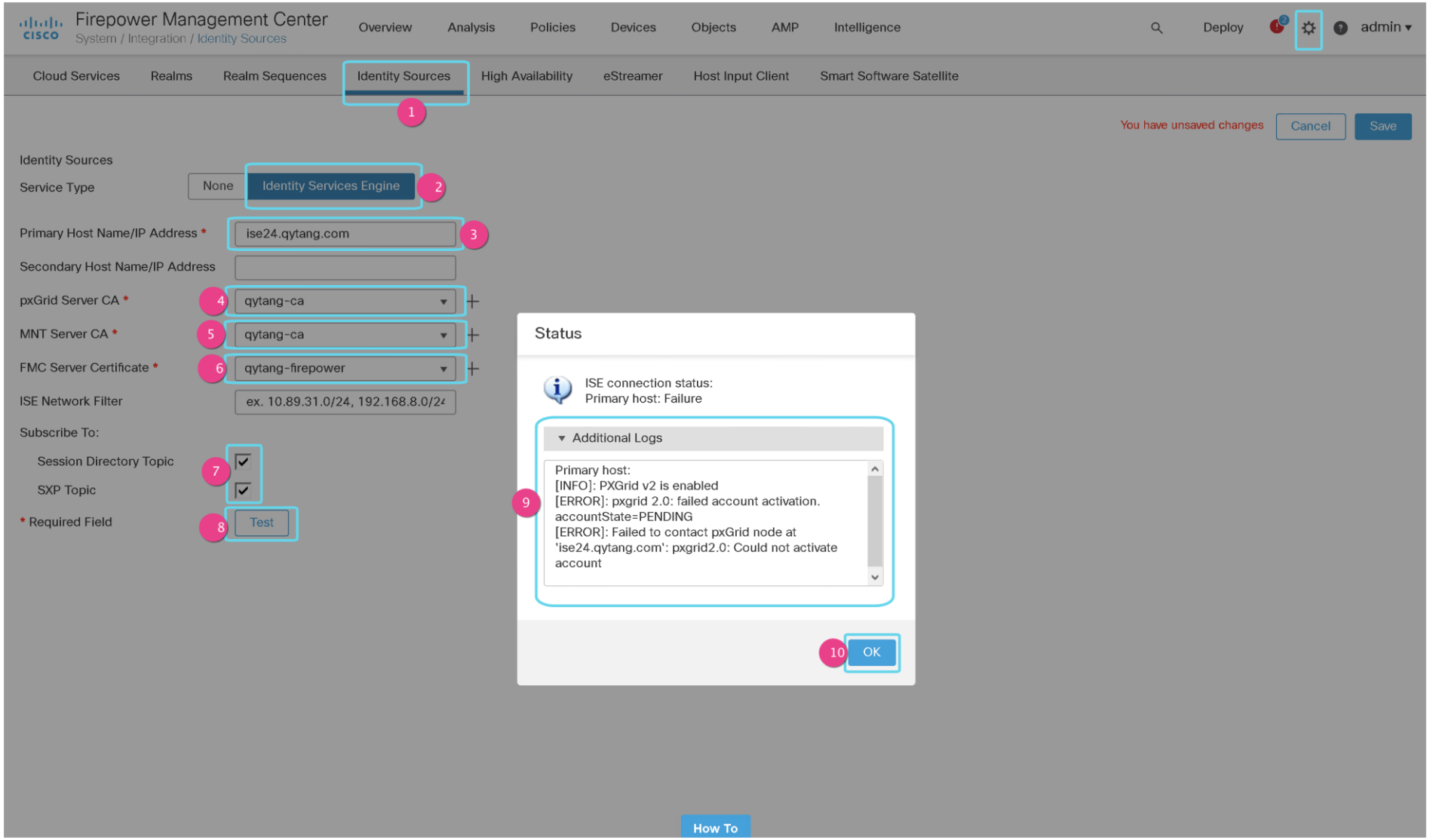
FMC与ISE之间的PxGrid(证书)



FMC与ISE之间的PxGrid(整合)



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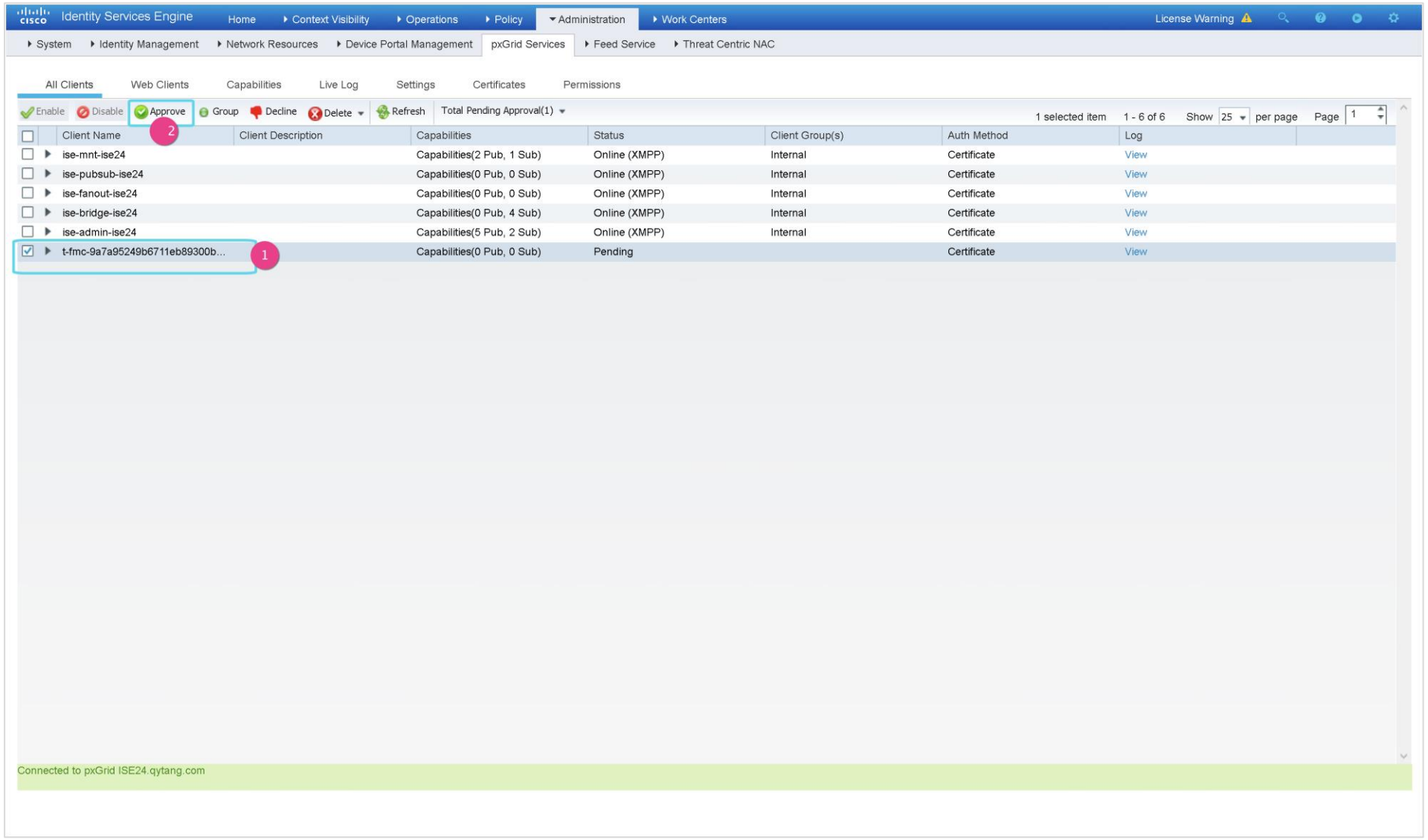
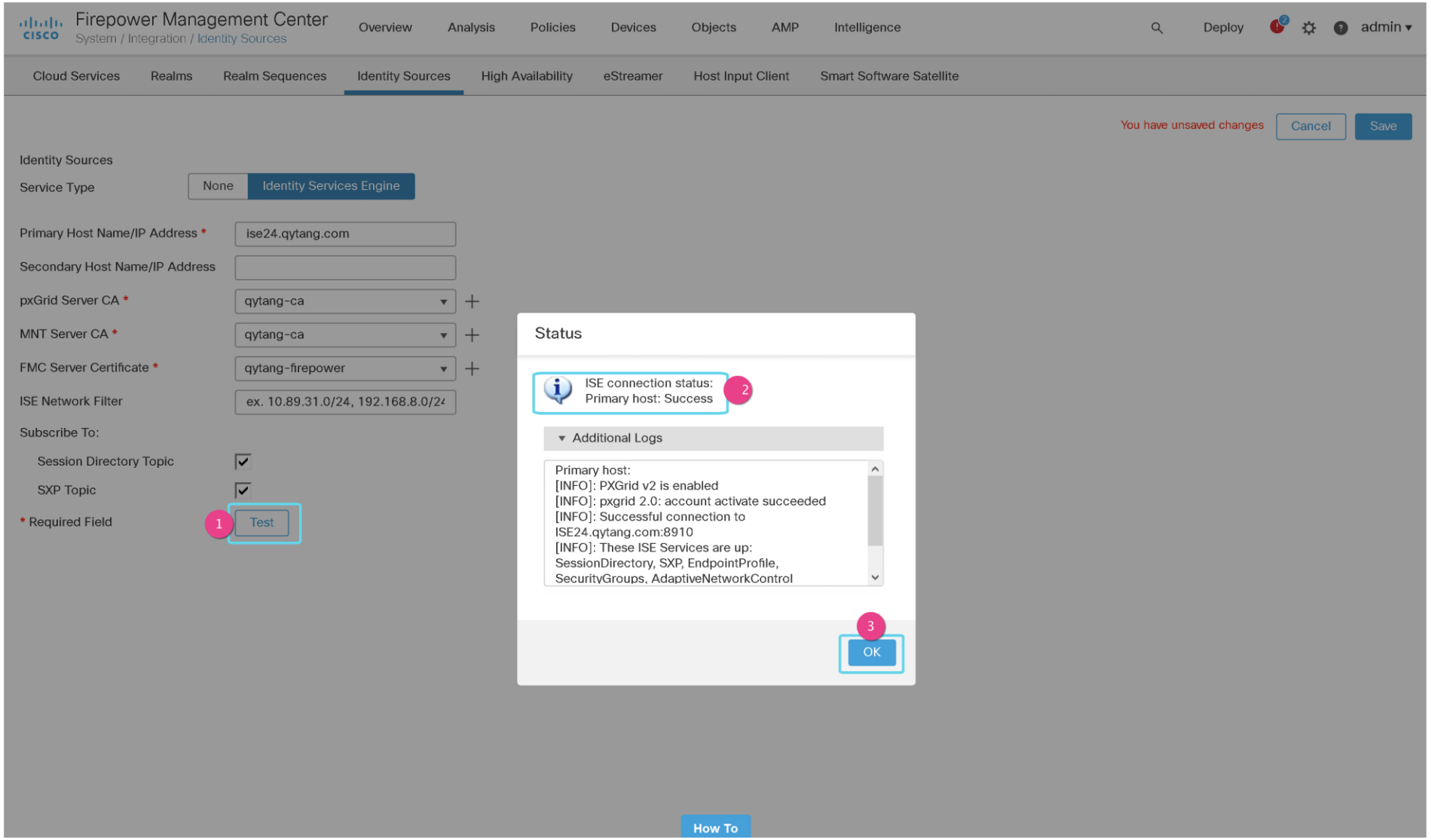


FMC与ISE之间的PxGrid(整合)



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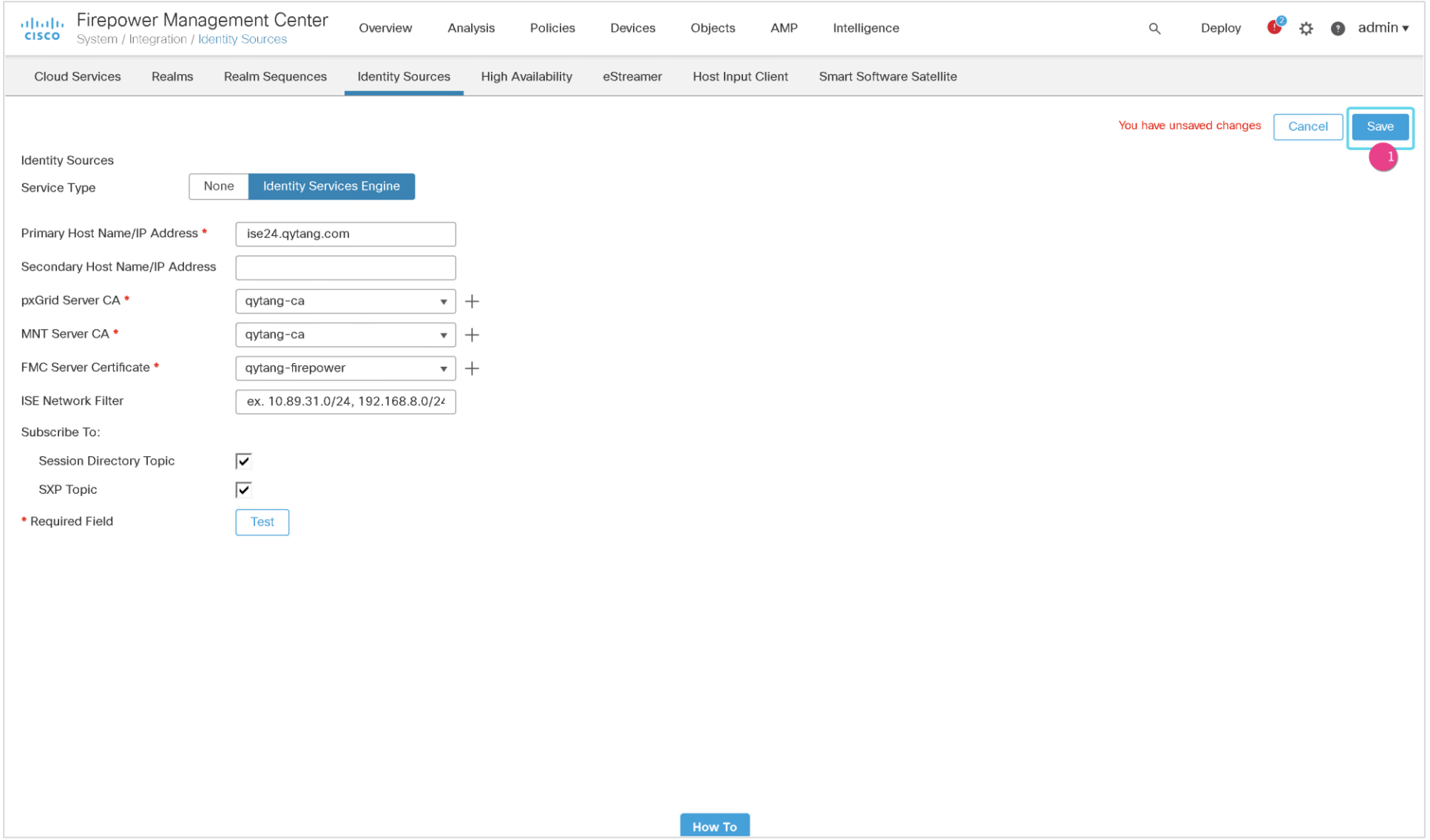

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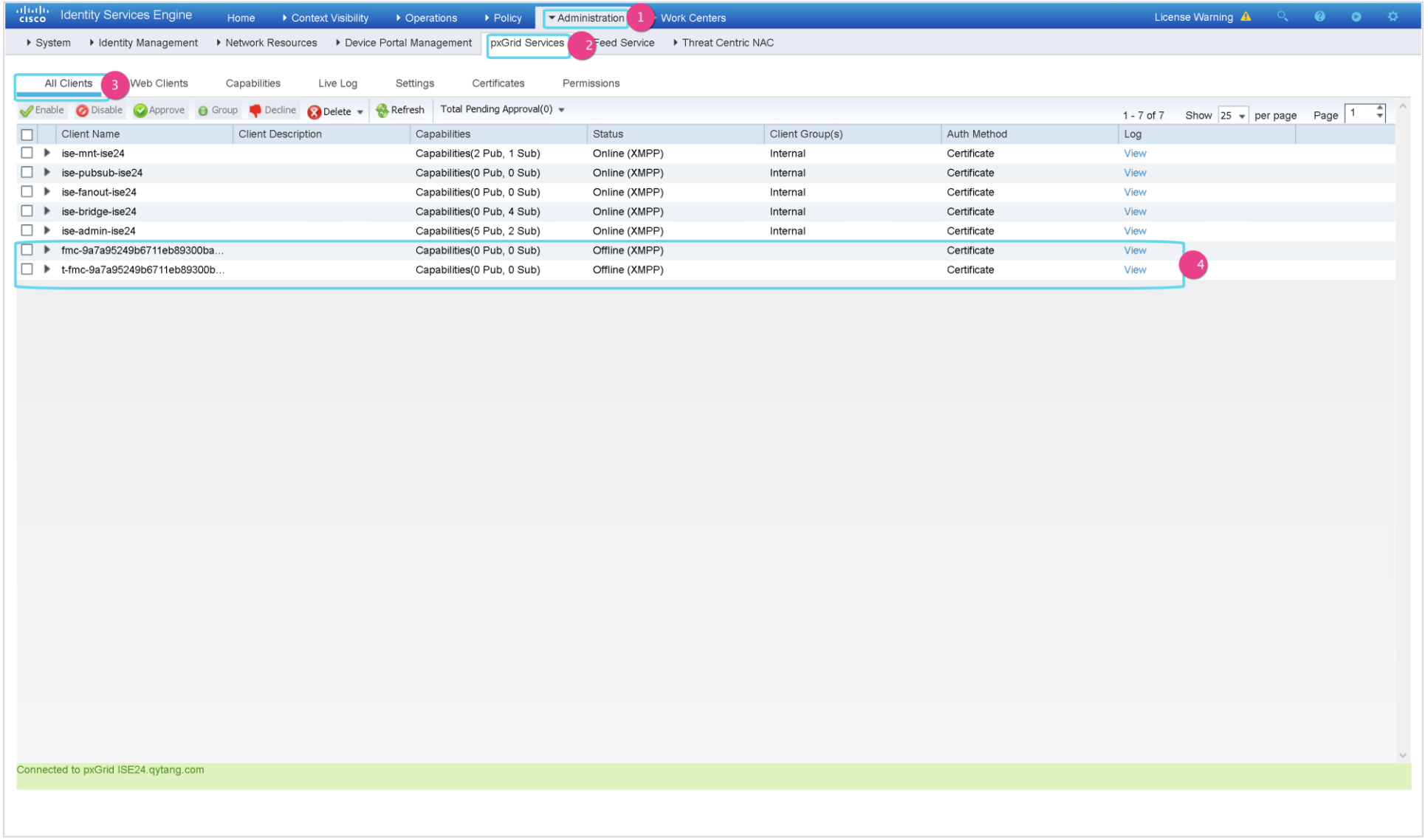

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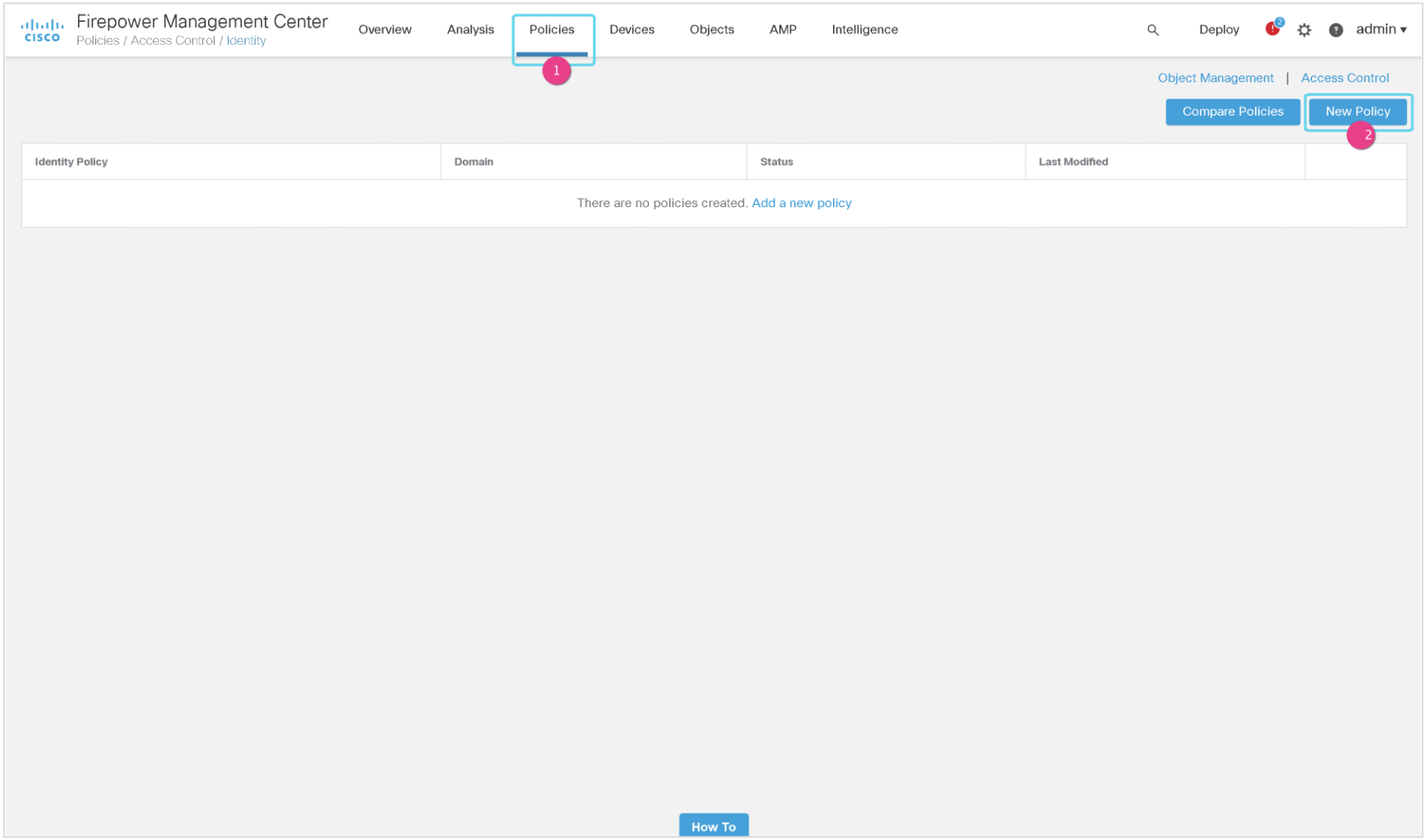
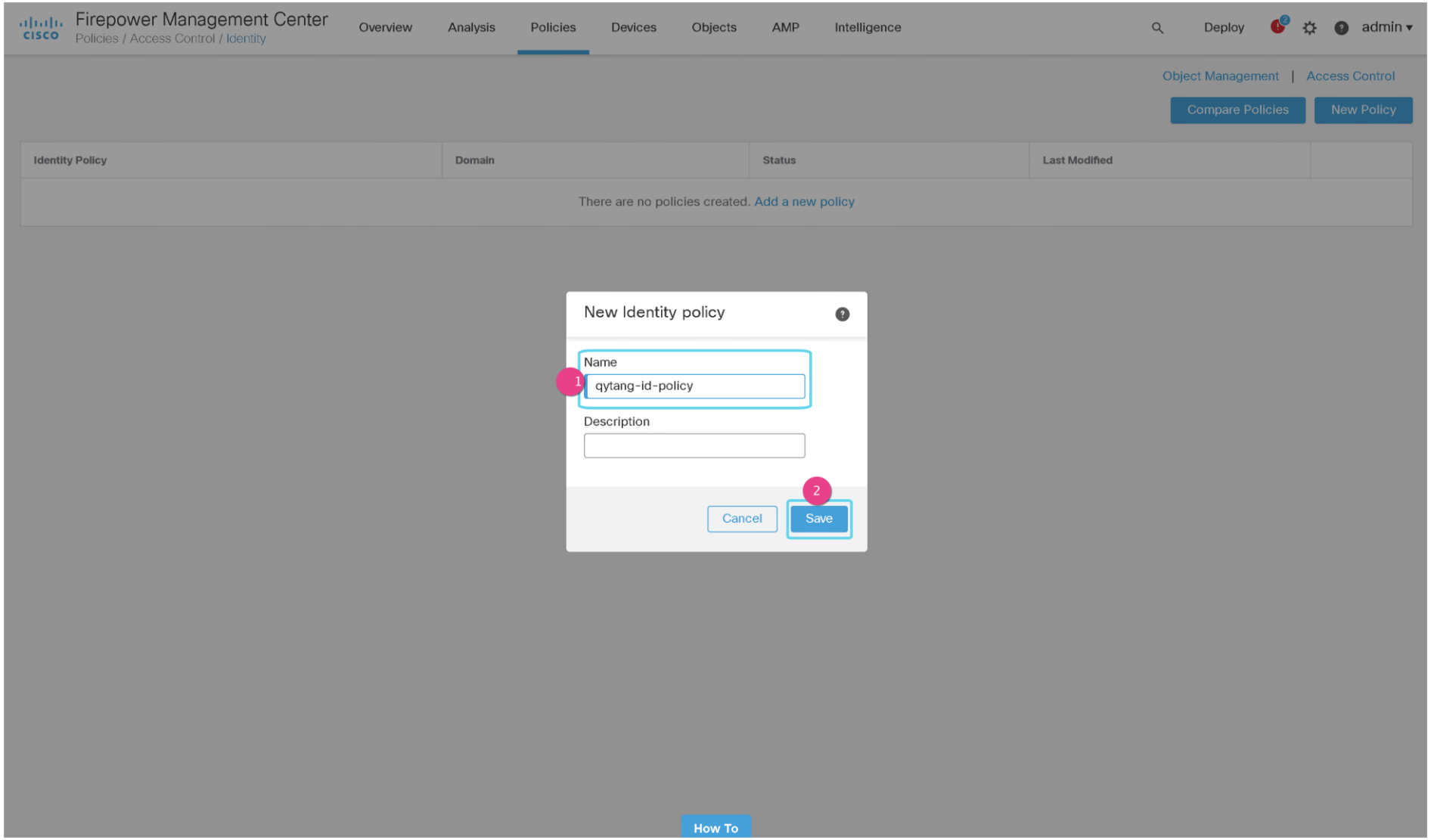
4. FMC策略

创建Identity策略



创建Identity策略



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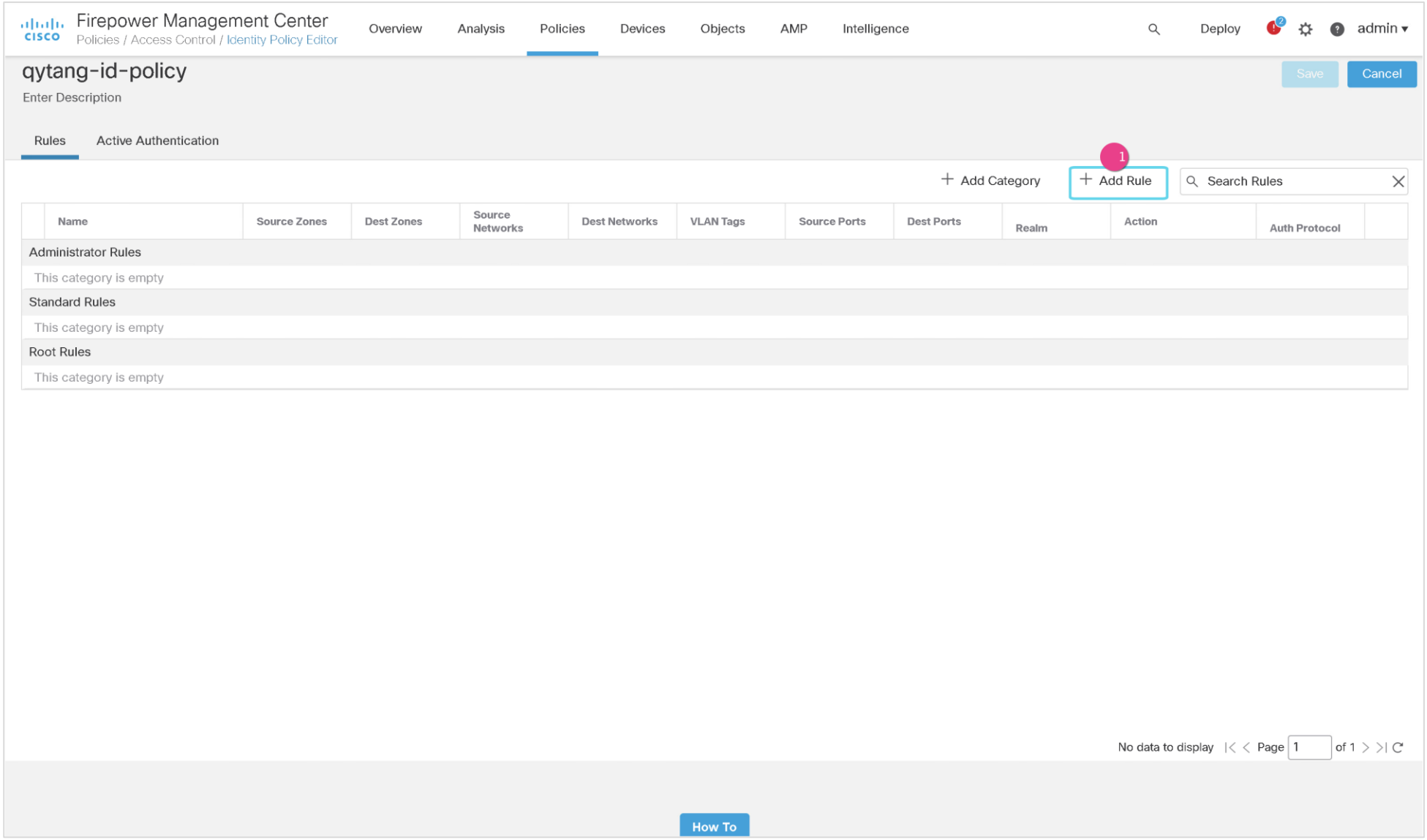
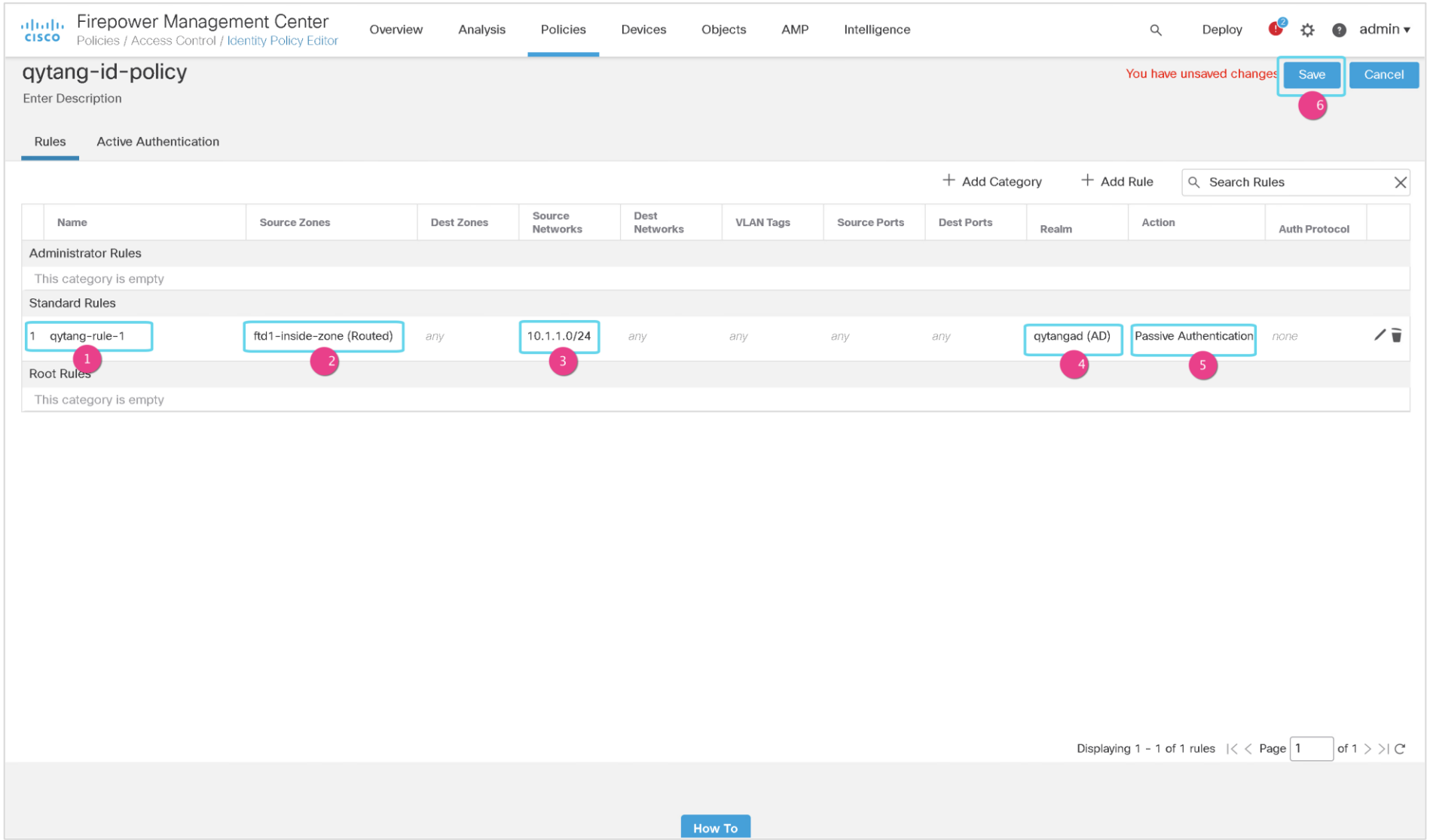


创建Identity策略



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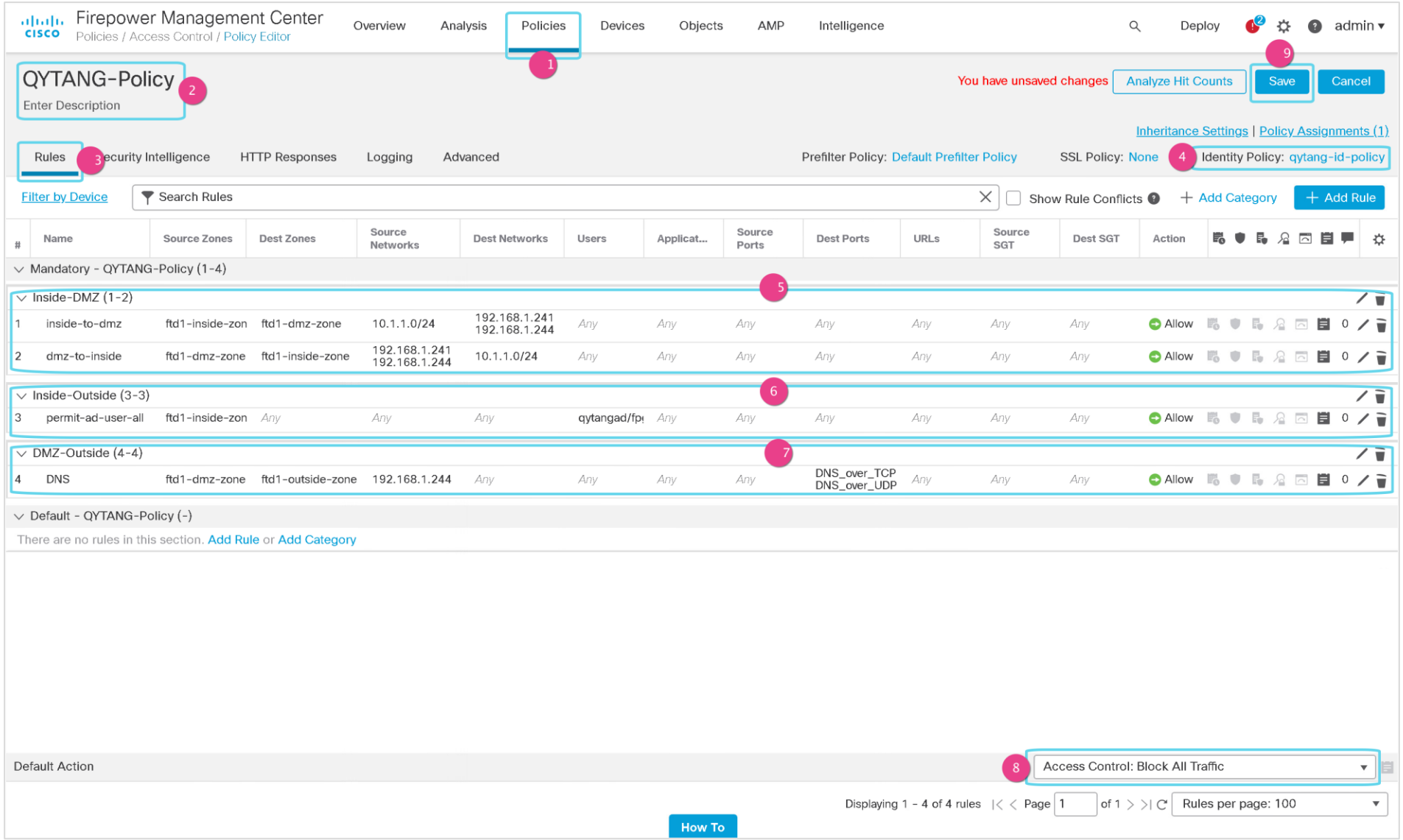

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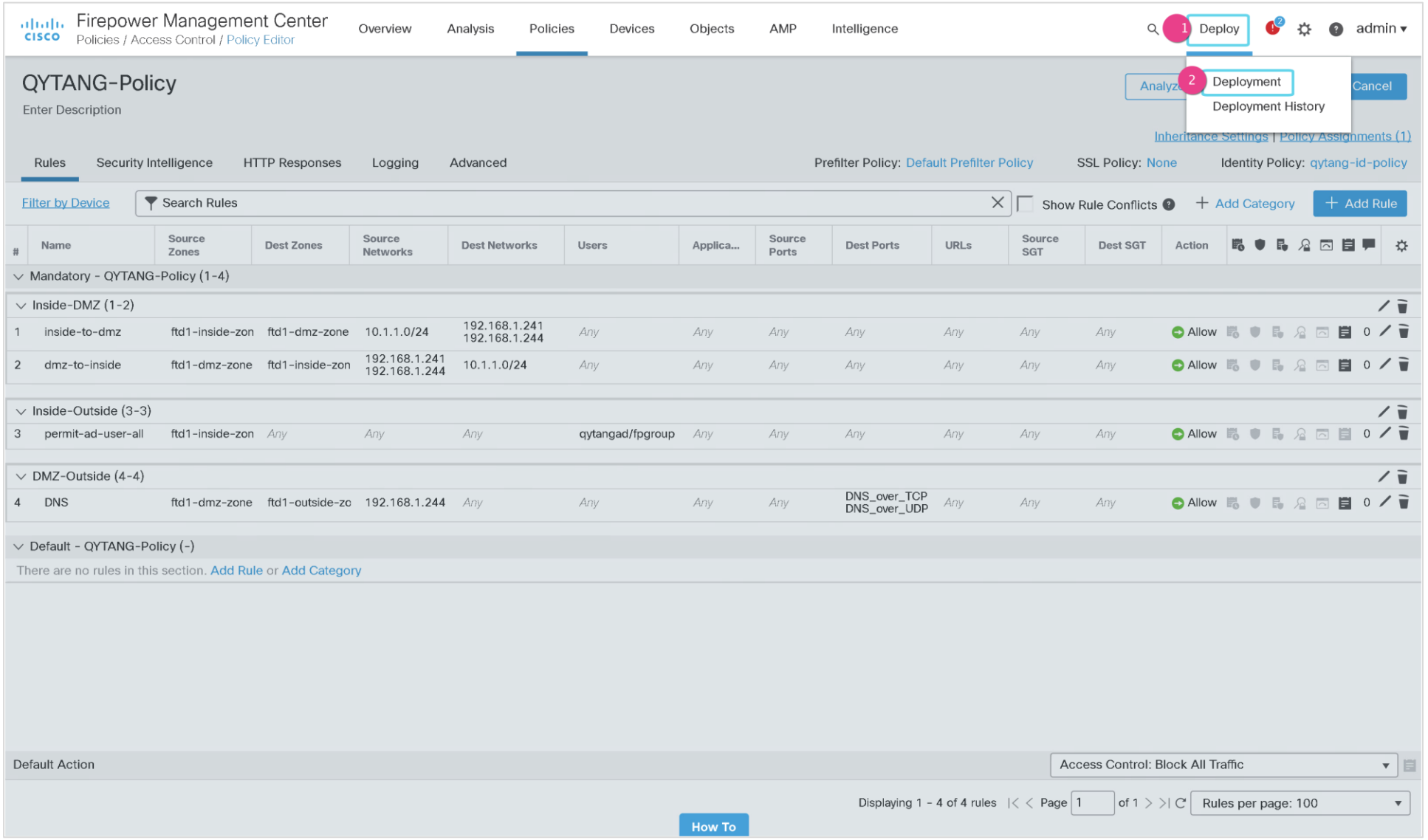

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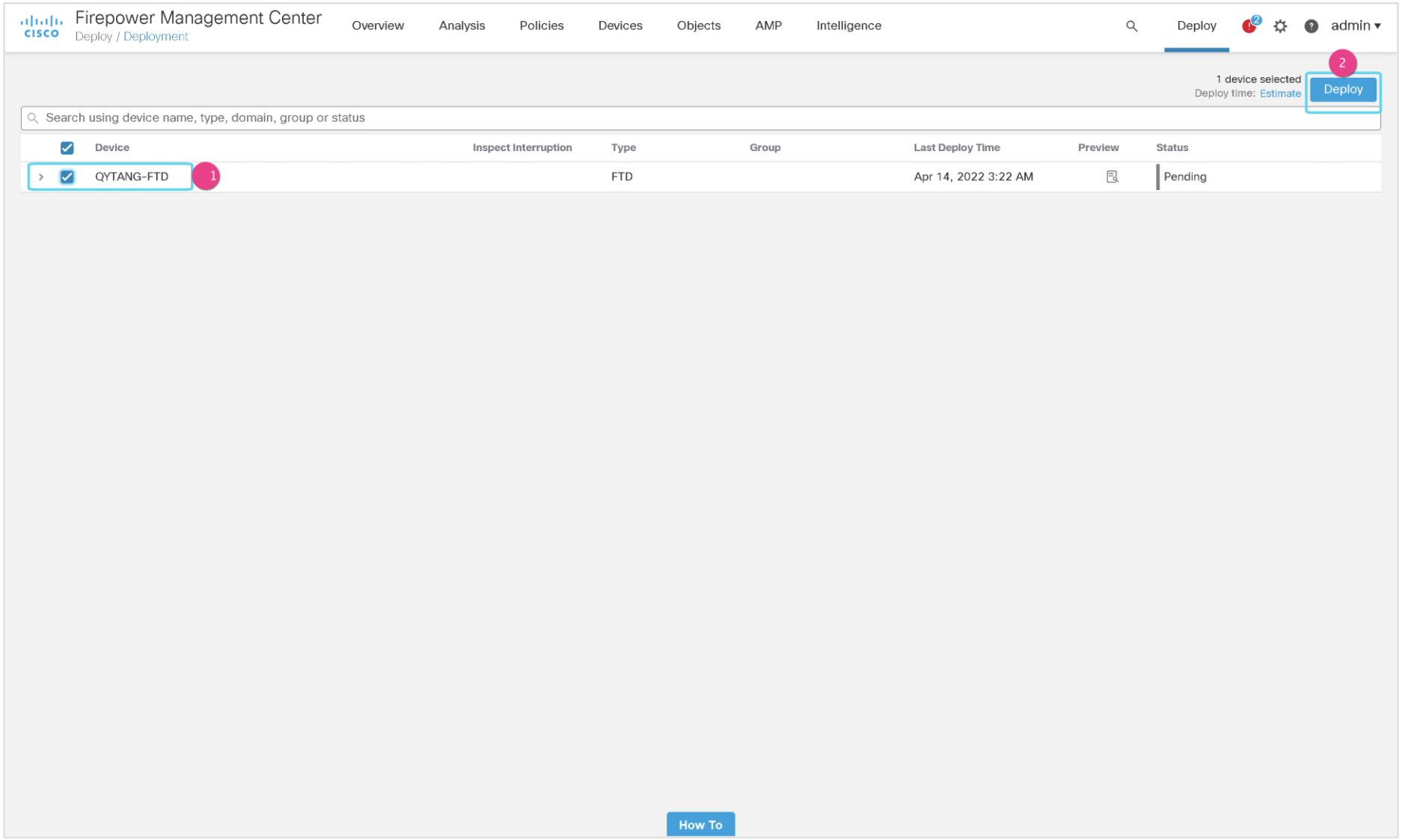
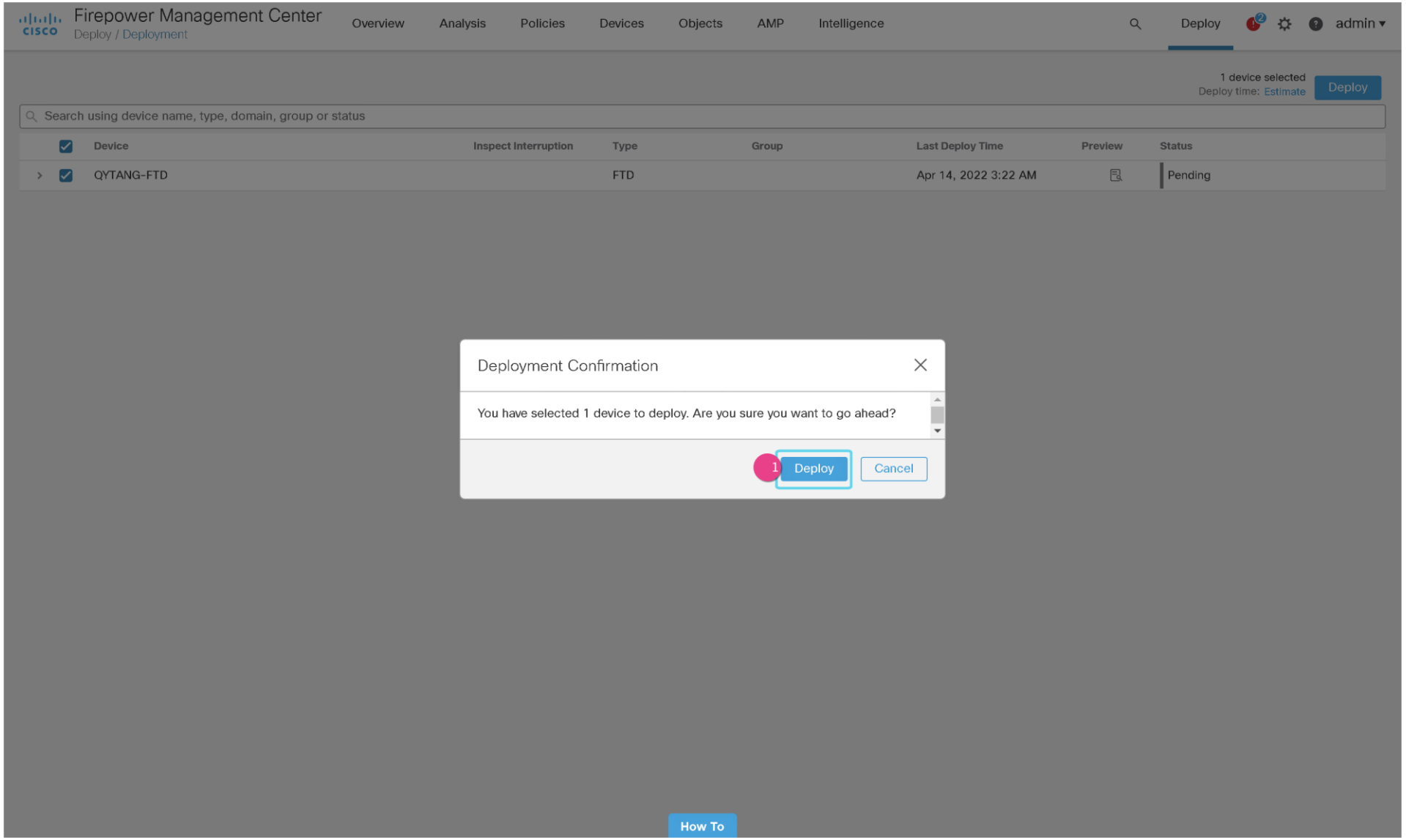
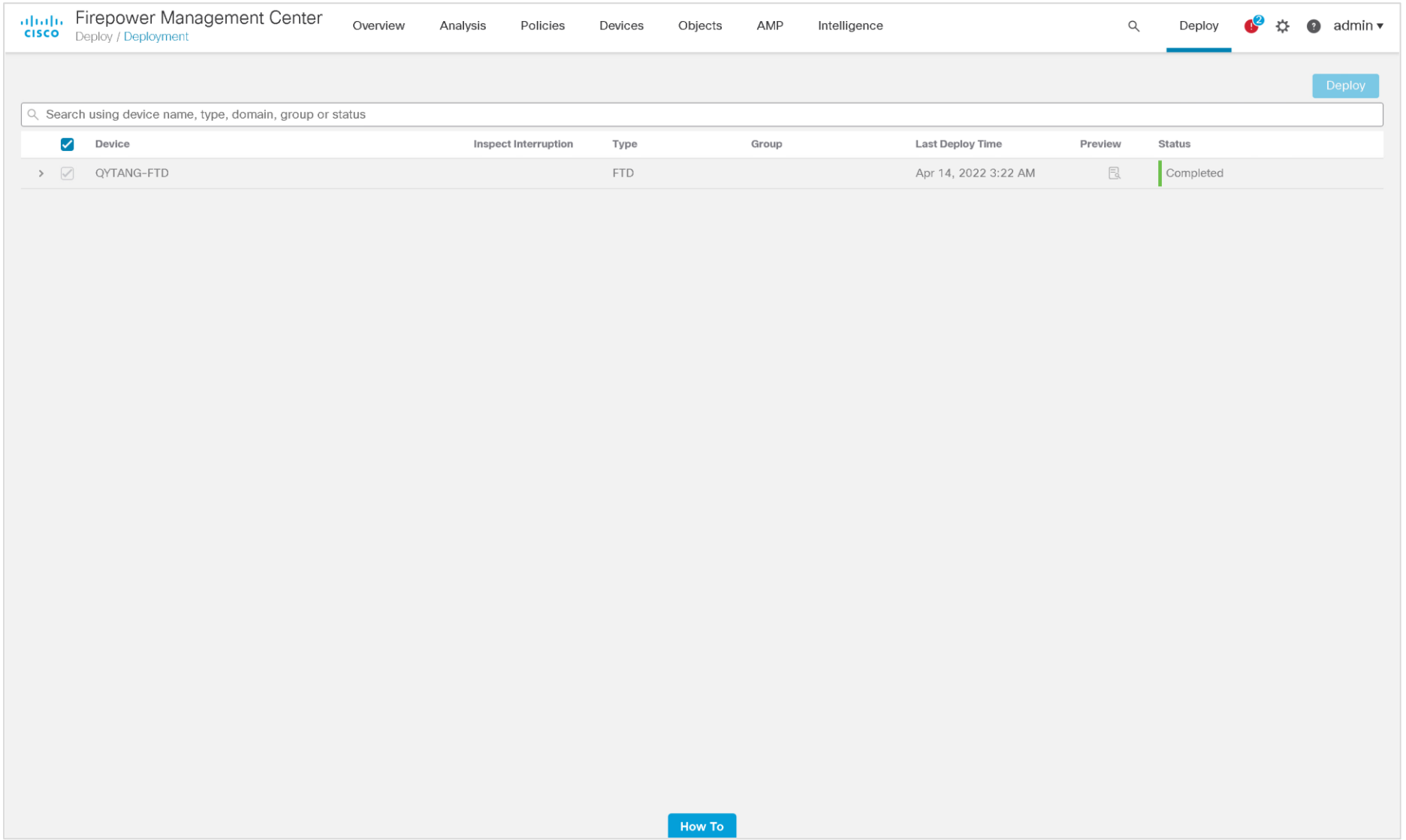


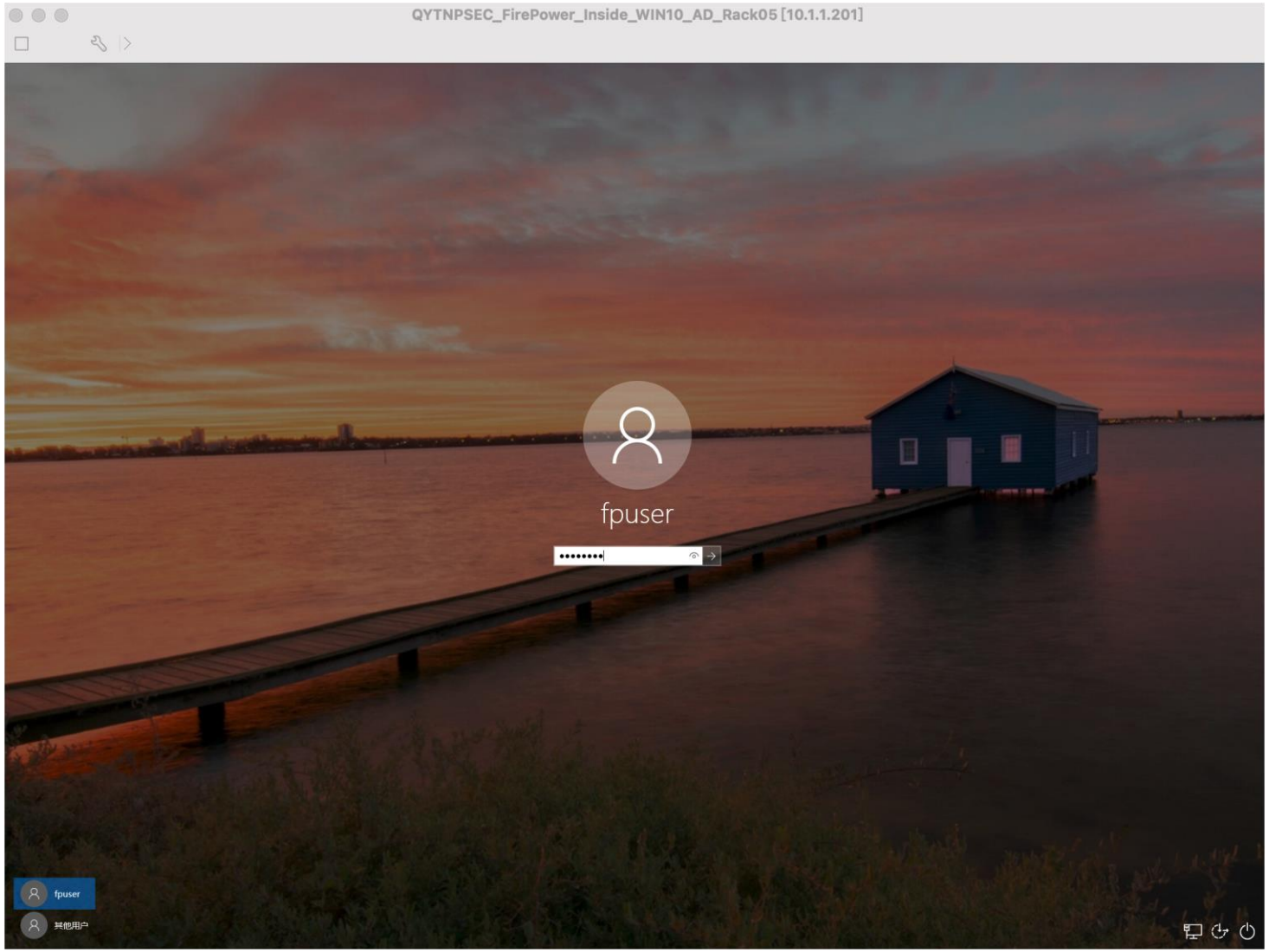
Access策略



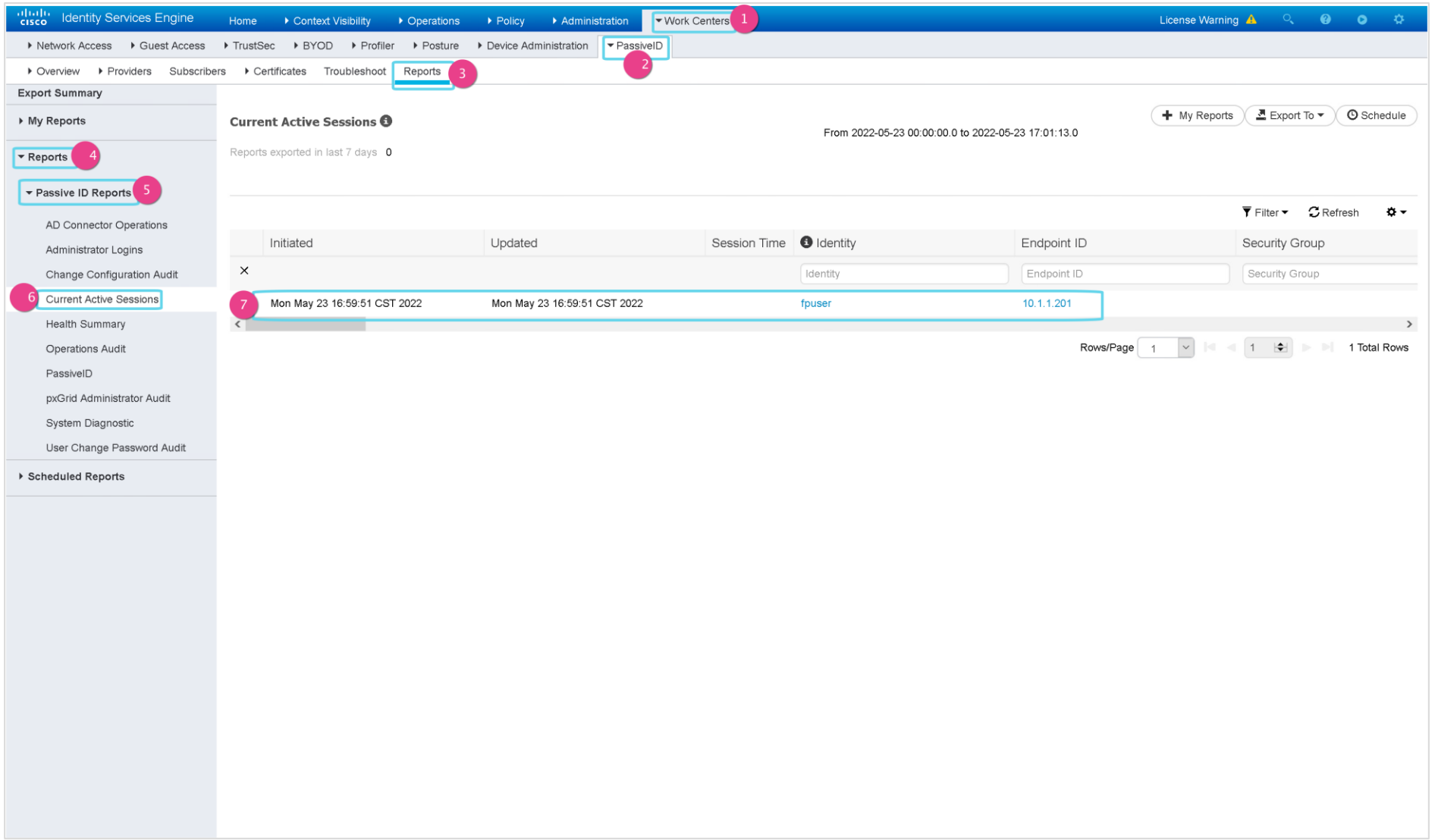
Access策略



测试(登录域)



测试(查看Current Active Session)



测试(访问互联网)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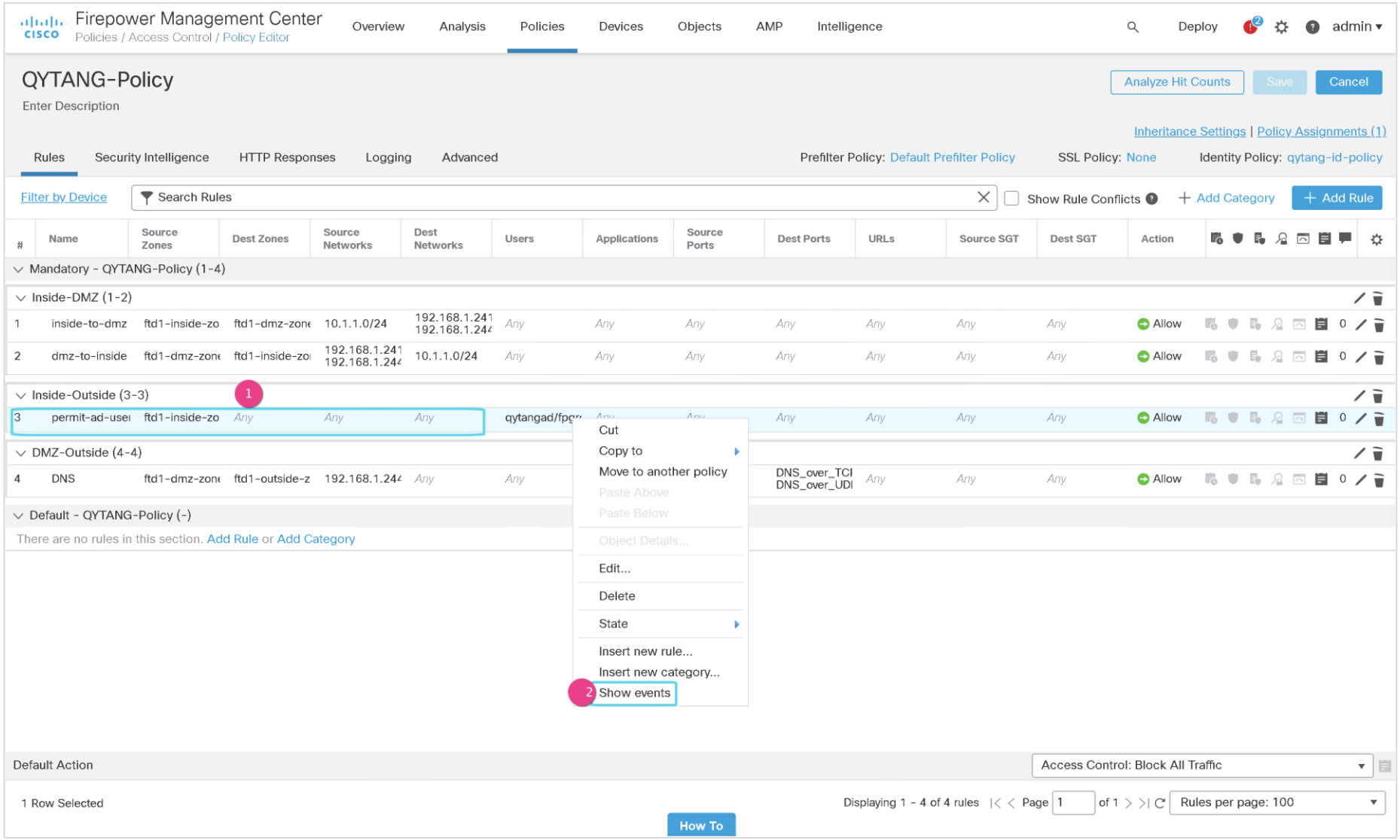
12 张文宏：新冠疫情短期内不会结束 热
13 瞒报行程致疫情在京扩散 工头致歉 热
14 3米长抹香鲸2次搁浅沙滩死亡
15 居民错过核检被要求补缴前24轮费用

测试(查看日志)



测试(查看日志)