# 在ISE上配置网络文件系统存储库

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# 简介

本文档介绍如何在身份服务引擎(ISE)上配置网络文件系统(NFS)存储库。

# 先决条件

## 要求

Cisco 建议您了解以下主题:

- ISE 2.x。
- •基本外壳命令

### 使用的组件

- ISE
- Debian分发(此处使用Ubuntu)

## 配置

### 步骤1.在ubuntu上设置NFS

• 您需要首先在ubuntu计算机上安装nfs-kernel-server包:

bara@ubuntu:~\$ sudo apt-get update

bara@ubuntu:~\$ sudo apt-get install nfs-kernel-server

• 创建名为nfs的共享目录:

bara@ubuntu:~\$ sudo mkdir /var/nfs/general -p

#### • 更改所有权以匹配nobody:nogroup

bara@ubuntu:~\$ sudo chown nobody:nogroup /var/nfs/general

#### • 将ISE配置为NFS上的客户端,并将目录导出:

bara@ubuntu:~\$ more /etc/exports

# directory\_to\_share client(share\_option1,...,share\_optionN)

# /etc/exports: the access control list for filesystems which may be exported

#

to NFS clients. See exports(5).

#

# Example for NFSv2 and NFSv3:

# /srv/homes hostname1(rw,sync,no\_subtree\_check) hostname2(ro,sync,no\_subtree\_check)

#

```
# Example for NFSv4:
```

步骤2. ISE配置

从CLI:

# /srv/nfs4 gss/krb5i(rw,sync,fsid=0,crossmnt,no\_subtree\_check)

# /srv/nfs4/homes gss/krb5i(rw,sync,no\_subtree\_check)

• 使用nano打开/etc/export:

bara@ubuntu:~\$ sudo nano /etc/exports

ISE23S/admin(config)# repository NFS

从GUI中,转到管理->维护->存储库:

• 在末尾添加以下两行(将IP更改为ISE IP)

/var/nfs/general 10.48.85.249(rw,sync,no\_subtree\_check) /home 10.48.85.249(rw,sync,no\_root\_squash,no\_subtree\_check)

•保存并关闭(Ctrl+x,当要求保存时按Y并输入),然后使用以下命令重新启动NFS服务器:

bara@ubuntu:~\$ sudo systemctl restart nfs-kernel-server

注意:从CLI配置的存储库不能从ISE Web UI使用,并且不会复制到其他ISE节点。

• 将NFS存储库添加到ISE,其中/home/bara是NFS安装点

ISE23S/admin(config-Repository)# url nfs://10.48.60.193:/home/bara

#### Repository List > Add Repository

### **Repository Configuration**

* Repository Name	NFS
* Protocol	NFS V
Location	
* Server Name	10.48.60.193
* Path	/home/bara
Credentials	
* User Name	anyuser
* Password	••••••
Submit Cancel	)

**注意:**在本例中,NFS不需要用户名和密码,但由于必须在表单中添加用户名和密码,因此可 以输入任何用户名和密码。

## 验证

•列出NFS存储库中的所有文件。

ISE23S/admin# show repository NFS ise-support-bundle-przaise001-a-hv11674-11-04-2019-08-25.tar.gpg jcameron-key.asc test.txt

• 在NFS上,您可以看到以下文件:

bara@ubuntu:~\$ pwd
/home/bara
bara@ubuntu:~\$ ls
ise-support-bundle-przaise001-a-hv11674-11-04-2019-08-25.tar.gpg jcameron-key.asc test.txt

已知缺陷

CSCvd73085:在ISE上安装NFS位置时出错

CSCvk61086:ISE 2.4 2.3 2.2 2.1 2.0 :未使用NFS存储库凭据

CSCvm41485:ISE 2.3:无法访问NFS存储库和无法使用NFS存储库运行的计划报告

## 故障排除

• 要在ISE上调试存储库,请使用以下调试:

#debug copy 7 #debug transfer 7

#### • 如果#showrep NFS失败,请进行捕获和调试,以下是工作场景的截图:

+	90 4.404133	10.48.85.249	10.48.60.193	NFS	250 V4 Call (Reply In 91) SETCLIENTID
	91 4.486119	10.48.60.193	10.48.85.249	NFS	130 V4 Reply (Call In 90) SETCLIENTID
	92 4.486172	10.48.85.249	10.48.60.193	NFS	170 V4 Call (Reply In 93) SETCLIENTID_CONFIRM
	93 4.408060	10.48.60.193	10.48.85.249	NFS	114 V4 Reply (Call In 92) SETCLIENTID_CONFIRM
	94 4.488144	10.48.85.249	10.48.60.193	NFS	182 V4 Call (Reply In 96) PUTROOTFH   GETATTR
	96 4.408813	10.48.60.193	10.48.85.249	NFS	286 V4 Reply (Call In 94) PUTROOTFH   GETATTR
	97 4.408853	10.48.85.249	10.48.60.193	NFS	186 V4 Call (Reply In 98) GETATTR FH: 0x62d40c52
	98 4.411316	10.48.60.193	10.48.85.249	NES	162 V4 Reply (Call In 97) GETATTR
	99 4.411371	10.48.85.249	10.48.60.193	NES	190 V4 Call (Reply In 100) GETATTR FH: 0x62d40c52
	100 4.412407	10.48.60.193	10.48.85.249	NFS	178 V4 Reply (Call In 99) GETATTR
	101 4.412441	10.48.85.249	10.48.60.193	NFS	186 V4 Call (Reply In 102) GETATTR FH: 0x62d40c52
	102 4.414590	10.48.60.193	10.48.85.249	NES	162 V4 Reply (Call In 101) GETATTR
	103 4.414635	10.48.85.249	10.48.60.193	NES	190 V4 Call (Reply In 104) GETATTR FH: 0x62d40c52
	104 4.414923	10.48.60.193	10.48.85.249	NFS	178 V4 Reply (Call In 103) GETATTR
	105 A A1405A	10 48 85 249	10 AR 60 193	NEC	186 VA Call (Renty To 186) GETATTE EN- Av62448-52
1					

> Frame 91: 130 bytes on wire (1040 bits), 130 bytes captured (1040 bits)

Ethernet II, Src: Cisco\_2a:c4:a3 (00:06:f6:2a:c4:a3), Dst: Vmware\_8d:9a:86 (00:50:56:8d:9a:86)

Fragment header: Last fragment, 60 bytes XID: 0xfa136502 (4195575042) Message Type: Reply (1) [Program: NFS (100003)] [Program Version: 4] [Procedure: COMPOUND (1)] Reply State: accepted (0) [This is a reply to a request in frame 90] [Time from request: 0.001986000 seconds] ✓ Verifier Flavor: AUTH\_NULL (0) Length: 0

State: RPC executed successfully (0) > Network File System, Ops(1): SETCLIENTID

工作

#### •以下是非工作场景,可能是ISE未在/etc/export中列出

		•		
455 4.273621	10.240.239.68	10.235.139.48	NFS	262 V4 Call (Reply In 456) SETCLIENTID
456 4.275495	10.235.139.48	10.240.239.68	NES	90 V4 Reply (Call In 455)
463 4.279409	10.240.239.68	10.235.139.48	NFS	262 V4 Call (Reply In 465) SETCLIENTID
465 4.281223	10.235.139.48	10.240.239.68	NES	90 V4 Reply (Call In 463)
473 4.284947	10.240.239.68	10.235.139.48	NES	262 V4 Call (Reply In 475) SETCLIENTID
475 4.286759	10.235.139.48	10.240.239.68	NES	90 V4 Reply (Call In 473)
477 4.286834	10.240.239.68	10.235.139.48	NFS	262 V4 Call (Reply In 478) SETCLIENTID
478 4.288635	10.235.139.48	10.240.239.68	NES	90 V4 Reply (Call In 477)
485 4.292429	10.240.239.68	10.235.139.48	NES	262 V4 Call (Reply In 487) SETCLIENTID
497 A 204249	10 335 130 40	10 340 330 60	MEC	OA VA Bonly (Call In 185)

Frame 456: 90 bytes on wire (720 bits), 90 bytes captured (720 bits) Ethernet II, Src: Cisco\_c7:04:40 (00:c1:64:c7:04:40), Dst: Cisco\_e7:76:84 (70:0f:6a:e7:76:84) Internet Protocol Version 4, Src: 10.235.139.48, Dst: 10.240.239.68 Transmission Control Protocol, Src Port: 2049, Dst Port: 766, Seq: 29, Ack: 241, Len: 24 Remote Procedure Call, Type:Reply XID:0x1da7b938 Fragment header: Last fragment, 20 bytes XID: 0x1da7b938 (497531192) Message Type: Reply (1)

[Program: NFS (100003)] [Program Version: 4] [Procedure: COMPOUND (1)] Reply State: denied (1) [This is a reply to a request in frame 455] [Time from request: 0.001874000 seconds] Reject State: AUTH\_ERROR (1) Auth State: bad credential (seal broken) (1)

Internet Protocol Version 4, Src: 10.48.60.193, Dst: 10.48.85.249 Transmission Control Protocol, Src Port: 2049, Dst Port: 952, Seq: 29, Ack: 229, Len: 64 Remote Procedure Call, Type:Reply XID:0xfa136502