



## 当CIFS客户端访问UNIX安全模式资源时、名称映射的工作原理是什么？

[https://kb-cn-stage.netapp.com/on-prem/ontap/da/NAS/NAS-KBs/How\\_does\\_name-mapping\\_work\\_wh...](https://kb-cn-stage.netapp.com/on-prem/ontap/da/NAS/NAS-KBs/How_does_name-mapping_work_wh...)

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### 适用场景

- ONTAP 9
- UNIX
- CIFS

### 问题解答

- 由于用户已在域中进行身份验证、因此ONTAP需要为每个新创建的CIFS会话构建用户凭据。
- 要构建凭据、ONTAP需要将Windows用户映射到UNIX用户、以便能够通过ns-switch中定义的源查找映射的UID和GID

```
::> vserver services name-service ns-switch show
```

Source		
Vserver	Database	Order
-----	-----	-----

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```

vs0      hosts      files,
          dns
vs1      passwd     files,
          ldap, nis
2 entries were displayed.

```

- ONTAP将尝试按以下顺序将Windows用户映射到UNIX用户、以尝试通过ns-switch中定义的源查找UNIX用户的UID和GID：

1. 显式名称映射：ONTAP会根据定义的显式名称映射"win-UNIX)规则、通过字符串比较尝试匹配Windows用户

```

::> vsriver name-mapping show -vsriver SVM01 -direction win-unix

```

示例：

```

Vserver:  SVM01
Direction: win-unix
Position Hostname      IP Address/Mask
-----
1      test.com          -      Pattern: EXAMPLE\\administrator
      Replacement: nobody
2      -              10.238.2.34/32  Pattern: EXAMPLE\\(.+)
      Replacement: \_1

```

注意：[如何创建和了解Vserver名称映射规则](#)

2. 隐式名称映射：如果没有匹配的显式规则、ONTAP会尝试将Windows用户映射到具有相同用户名的UNIX用户

示例：Windows用户"main\user01"到UNIX用户"user01"

3. 默认UNIX用户：如果上述两种方法都失败(例如、文件管理器无法提取映射的UNIX用户的UID和GID)、出于任何原因、文件管理器会将Windows用户映射到CIFS服务器选项中定义的"默认UNIX用户"。

```

::> vsriver cifs options show -vsriver SVM01 -fields default-unix-user

```

注意：默认情况下、默认UNIX用户设置为"pcuser"(UID 6554)。

- 由于卷设置为UNIX安全模式、因此会根据UNIX凭据的UID和GID授予或拒绝访问权限。
- 确认名称映射：

示例：

```

::> set -privilege advanced
::*> vsriver services access-check name-mapping show -node
cluster1-node01 -vsriver SVM01 -direction win-unix -name EXAMPLE\Administrator

```

EXAMPLE\Administrator maps to root

## 追加信息

- [如何创建和了解Vserver名称映射规则](#)
- [了解多协议环境中的名称映射](#)