

How to check which Domain Controller holds the FSMO role in Active Directory

This tutorial illustrates how to test the FSMO role in Server 2016. The 5 FSMO roles in Active Directory include: RID Master, PDC Emulator Master, Infrastructure Master, Domain Naming Master, Schema Master.

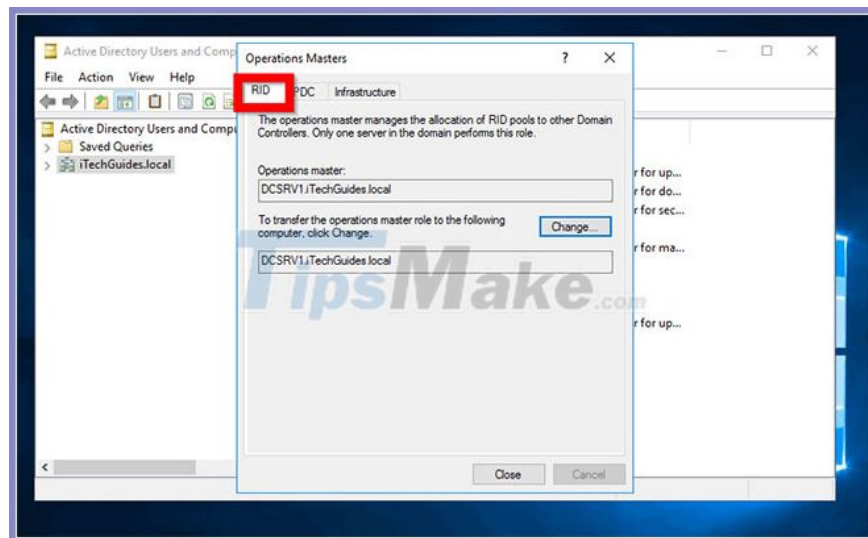
This tutorial illustrates how to test the FSMO role in Server 2016. The 5 FSMO roles in Active Directory include:

1. RID Master
2. PDC Emulator Master
3. Infrastructure Master
4. Domain Naming Master
5. Schema Master

Steps to examine the FSMO role in Server 2016

Here are the steps to check which Domain Controller holds one of the FSMO roles above:

1. Check which DC holds the RID, PDC, and Infrastructure Master roles



Here are the steps to test the Domain Controller holds the RID, PDC, and Infrastructure Master roles:

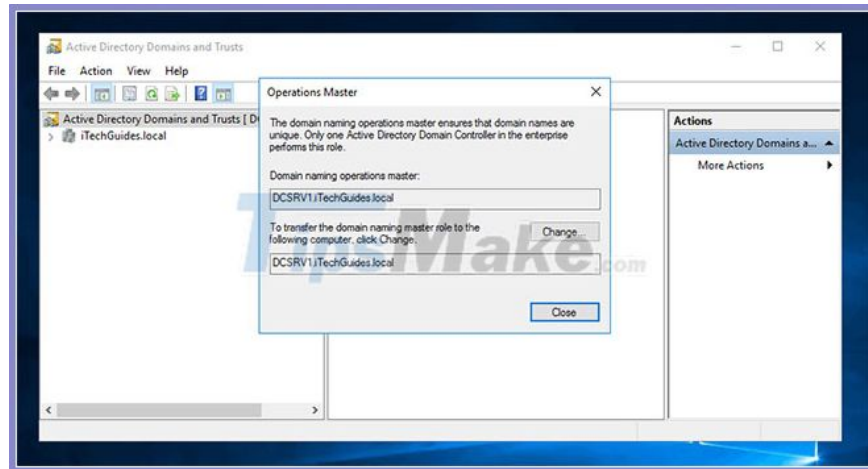
Log in to the **Domain Controller** and open **Server Manager**.

From **Server Manager** , click **Tools**. Then select **Active Directory Users and Computers** .

When **Active Directory Users and Computers** opens, right-click on the AD domain name. Then click **Operations Masters...**

Operations Masters has 3 tabs. The first is the **RID**. On this tab, you will see the DC holds this FSMO role. In this example, it is **DCSRV1**. To test the DC holding the PDC and Infrastructure roles, click on the remaining tabs.

2. Verify that the Domain Controller holds the FSMO role of Master Naming Master



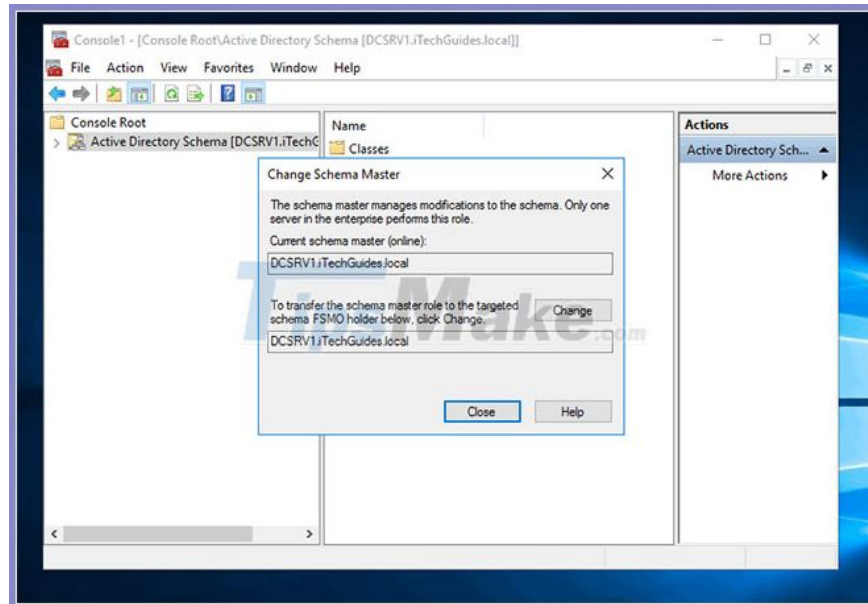
To verify that the Domain Controller has the FSMO role Master Naming Master:

From **Server Manager** , click on **Tools**. Then select **Active Directory Domains and Trusts** .

When **AD Domains and Trusts** opens, right-click on **Active Directory Domains and Trusts** for your domain. Then click **Operations Master** .

The DC holding this role will be displayed.

3. Check the DC holding the Schema Master role



Testing the DC holding the Schema Master role is not that simple. Here are the steps to do (take actions from DC):

From the Command Prompt, enter the command below. Then press **Enter**:

```
regsvr32 schmmgmt.dll
```

The registration order for the AD Schema snap-in. In the next steps, you will open the AD schema in the MMC, and then watch the DC hold the Schema Master role.

To open MMC, press **Windows + R** . This will open the **Run** command .

At **Run** , type **MMC**. Then click **OK**.

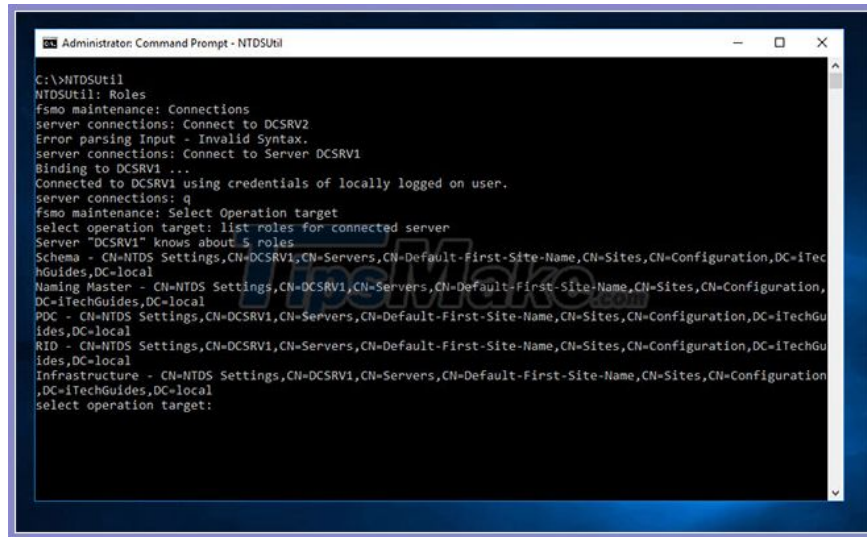
At **MMC** , click **File** and select **Add / Remove Snap-in...**

Locate and highlight **Active Directory Schema** . Then click **Add > OK** .

Under **Console Root** , click **Active Directory Schema []** . Then right click on it and choose **Operations Master**

DC holding the FSMO role Schema Master will appear!

4. Check with the NTDSUtil command



```
C:\>NTDSUtil
NTDSUtil: Roles
fsmo maintenance: Connections
server connections: Connect to DCSR2
Error parsing Input - Invalid Syntax.
server connections: Connect to Server DCSR1
Binding to DCSR1 ...
Connected to DCSR1 using credentials of locally logged on user.
server connections: q
fsmo maintenance: Select Operation target
select operation target: list roles for connected server
Server "DCSRV1" knows about 5 roles
Schema - CN=NTDS Settings,CN=DCSRV1,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration,DC=ITechGuides,DC=local
Naming Master - CN=NTDS Settings,CN=DCSRV1,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration,DC=ITechGuides,DC=local
PDC - CN=NTDS Settings,CN=DCSRV1,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration,DC=ITechGuides,DC=local
RID - CN=NTDS Settings,CN=DCSRV1,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration,DC=ITechGuides,DC=local
Infrastructure - CN=NTDS Settings,CN=DCSRV1,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration,DC=ITechGuides,DC=local
select operation target:
```

You can also test the DCs holding the FSMO roles with the NTDSUtil command line tool. Here are the steps to take:

Log in to DC in the domain. Then, open Command Prompt.

At the **Command Prompt** , enter the following commands in order. Press **Enter** to execute each command.

```
NTDSUtil Roles Connections Settings Connect to Server
```

Replace with the name of the Domain Controller for which you want to list the FSMO roles.

```
q Select Operation target list roles for connected server
```

The last command will list all the roles held by the server you are connected to using the command '**Connect to Server**' .

Regardless of the reason you want to determine which Domain Controller holds the FSMO role in the network, this tutorial should help as well.

Good luck!

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