Microsoft TechNet

Repadmin Examples

Updated: March 28, 2003

Repadmin Examples

Example 1: Display the replication partners of a server

The following example uses the **showrepl** operation of Repadmin to display the replication partners of Server1. This command is also used to find the objectGUID and InvocationID for a server for use with other operations.

No parameters are required for the **showrepl** operation. A remote connection is assumed; therefore, the server name (*DC* in the syntax) is included.

Type the following at the command prompt:

```
repadmin /showrepl server1.microsoft.com
```

Press Enter and the following output is displayed:

> 🗋 Copy Code

```
repadmin /showrepl server1.microsoft.com
Building7a\server1
DC Options : IS_GC
Site OPtions: (none)
DC object GUID : 405db077-1e28-4825-b225-c5bb9af6f50b
DC invocationID: 405db077-1e28-4825-b225-c5bb9af6f50b

==== INBOUND NEIGHBORS ====================================

CN=Schema,CN=Configuration,DC=microsoft,Dc=com
    Building7b\server2 via RPC
         objectGuid: e55c6c75-75bb-485a-a0d3-020a44c3afe7
         last attempt @ 2002-09-09 12:25.35 was successful.


CN=Configuration,DC=microsoft,Dc=com
    Building7b\server2 via RPC
         objectGuid: e55c6c75-75bb-485a-a0d3-020a44c3afe7
         last attempt @ 2002-09-09 12:25.10 was successful.


DC=microsoft,Dc=com
    Building7b\server2 via RPC
         objectGuid: e55c6c75-75bb-485a-a0d3-020a44c3afe7
         last attempt @ 2001-09-09 12:25.11 was successful.
```

Example 2: Initiate a replication event between two replication partners

The following example uses the **replicate** operation of Repadmin to make Server2 initiate replication of the domain directory partition for microsoft.com from Server1. In this example, Server1 is the source server and Server2 is the destination server.

The required parameters for the **replicate** operation are the name of the server that will receive changes (*DestDC* in the syntax), the name of the directory partition (*NamingContext* in the syntax), and the name of the server that will send the changes (*SrcDC* in the syntax).

Type the following at the command prompt:

```
repadmin /replicate server2.microsoft.com server1.microsoft.com dc=microsoft,dc=com
```

Press Enter and the following output is displayed:

> 🗋 Copy Code

```
server2.microsoft.com
Sync from server1.microsoft.com to server2.microsoft.com completed successfully.
```

Example 3: Initiate a replication event for a specified directory partition with all of its replication partners

The following example uses the **syncall** operation of Repadmin to make Server1 initiate replication of the domain directory partition for microsoft.com from all of its source replication partners in the same site and to make all of the source replication partners initiate replication for microsoft.com from all of their source replication partners in the same site, and so on.

The required parameter for the **syncall** operation is the server name (*DC* in the syntax). The name of the directory partition (*NamingContext* in the syntax) that will be synchronized is also included in this example. If this name is not included, only the configuration partition is synchronized.

Type the following at the command prompt:

```
repadmin /syncall server1.microsoft.com dc=microsoft,dc=com
```

Press Enter and the following output is displayed:

> 🗋 Copy Code

```
repadmin /syncall server1 dc=microsoft,dc=com
Syncing partition: dc=microsoft,dc=com
CALLBACK MESSAGE: The following replication is in progress:
    From: fea22f1d-a456-4f70-aa06-bedbda29e7eb._msdcs.microsoft.com
    To  : 5c02bcaf-86d9-4bed-811e-d17a5cebf8bb._msdcs.microsoft.com
CALLBACK MESSAGE: The following replication completed successfully:
    From: fea22f1d-a456-4f70-aa06-bedbda29e7eb._msdcs.microsoft.com
    To  : 5c02bcaf-86d9-4bed-811e-d17a5cebf8bb._msdcs.microsoft.com
```

```
CALLBACK MESSAGE: SyncAll Finished.
SyncAll terminated with no errors.
```

Example 4: Display the highest Update Sequence Number on a server

The following example uses the **showutdvec** operation of Repadmin to show the highest USNs for a specified directory partition on each replication partner. In this example, there are only two replication partners and the directory partition is the domain directory partition for the microsoft.com domain.

The only required parameter for the **showutdvec** operation is the distinguished name of the directory partition (*NamingContext* in the syntax). A remote connection is assumed so a server name (*DC_LIST* in the syntax) is also included.

Type the following at the command prompt:

```
repadmin /showutdvec . dc=microsoft,dc=com server2.microsoft.com
```

Press Enter and the following output is displayed:

Copy Code

```
repadmin running command /showutdvec against server localhost

Caching GUIDs.
..
Building7b\Server1     @ USN     295458 @ Time 2002-09-09 19:33:42
Building7b\Server2     @ USN     338194 @ Time 2002-09-09 19:38:16
```

Example 5: View unreplicated changes between two servers

The following example uses the **showchanges** operation of Repadmin to view changes that have not yet replicated between Server1 and Server2. In this example Server1 is the source server and is sending the changes while Server2 is the destination server and is receiving the changes.

This is one implementation of the **showchanges** operation. For another implementation of this operation see Example 6: Create a file to determine what changes have occurred over a period of time.

The required parameters for this version of the **showchanges** operation are the objectGuid of the directory partition on the source server (referred to as *SourceDCObjectGUID* in the syntax line) and the name of the directory partition (referred to in the syntax line as *NamingContext*). A remote connection is assumed so the destination server name (referred to in the syntax line as *DestDC*) is also included.

Type the following at the command prompt:

```
repadmin /showchanges server2.microsoft.com 5c02bcaf-86d9-4bed-811e-d17a5cebf8bb dc=microsoft,dc=com
```

Press Enter and the following output is displayed:

Copy Code

```
server2.microsoft.com
Building starting position from destination server rktlabdc2.rktlabdom.com

Source Neighbor:
dc=microsoft,dc=com
==== INBOUND NEIGHBORS ======================================

dc=microsoft,dc=com
    Building7b\Server1 via RPC
        DC object GUID: 5c02bcaf-86d9-4bed-811e-d17a5cebf8bb
        Address: 5c02bcaf-86d9-4bed-811e-d17a5cebf8bb._msdcs.microsoft.com
        DC invocationID: 064152bc-f8e8-404f-bd64-cdd9bb3958cb
        SYNC_ON_STARTUP DO_SCHEDULED_SYNCS WRITEABLE
        USNs: 296048/OU, 296048/PU
        Last attempt @ 2002-09-09 20:03:53 was successful.

Destination's up-to-date vector:
064152bc-f8e8-404f-bd64-cdd9bb3958cb @ USN 296163
fea22f1d-a456-4f70-aa06-bedbda29e7eb @ USN 338287

==== SOURCE DC: 5c02bcaf-86d9-4bed-811e-d17a5cebf8bb._msdcs.microsoft.com ====

No Changes
```

Example 6: Create a file to determine what changes have occurred over a period of time

The following example uses the **showchanges** operation of Repadmin to create a file that records replication changes. By running the **showchanges** operation later you can compare the file created earlier to the current replication state.

This is one implementation of the **showchanges** operation. For another implementation of this operation see Example 5: View unreplicated changes between two servers.

The only required parameter for this version of the **showchanges** operation is the name of the directory partition (*NamingContext* in the syntax) on which the check should be performed. In this example, the check is performed remotely so the server name (*SourceDC* in the syntax) is included as well as the **/cookie:** parameter, along with the name of the file to be created.

Type the following at the command prompt:

```
repadmin /showchanges dc=microsoft,dc=com server2.microsoft.com /cookie:microsoft.txt
```

Press Enter and the following output is displayed:

Copy Code

```
pDCList->szSp.. server2
Using cookie from file test.txt (132 bytes)

==== SOURCE DC: server2 ====
```

```
Objects returned: 2
(0) modify CN=00000000000000000000000000000000,CN=VolumeTable,CN=FileLinks,CN=Sy
stem,DC=rktlabdom,DC=com
    1> objectGUID: c4955e2f-ab7c-4f96-bdb6-bf29b97ce3df
    1> instanceType: 0x4 = ( IT_WRITE )
    1> seqNotification: 130
(1) modify DC=..SerialNo-server1.microsoft.com,DC=microsoft.com,CN=MicrosoftDN
S,CN=System,DC=microsoft,DC=com
    1> objectGUID: 0422b130-bf39-4549-aeea-64ed264d10c2
    1> instanceType: 0x4 = ( IT_WRITE )
    1> dnsRecord: <32 byte blob>
New cookie written to file microsoft.txt (132 bytes)
```

Example 7: Display the connection objects for a server

The following example uses the **showconn** operation of Repadmin to show connection objects for a server.

No parameters are required for **showconn** operation. In this example, a remote connection is assumed so the server name (*DC_LIST* in the syntax) is specified. All connection objects for Server2 are shown.

Type the following at the command prompt:

```
repadmin /showconn server2.microsoft.com
```

Press Enter and the following output is displayed:

📋 Copy Code

```
repadmin running command /showconn against server server2.microsoft.com

Show Connection Objects
Base DN:   CN=Building7b,CN=Sites,CN=Configuration,DC=microsoftDC=com
==== KCC CONNECTION OBJECTS ========================================
Connection --
    Connection name : b415ba00-8d8d-429b-8a3d-21fd06a99a6c
    Server DNS name : server2.microsoft.com
    Server DN  name : CN=NTDS Settings,CN=SERVER2,CN=Servers,CN=Building7b,CN=Sites,CN=Configuration,DC=microsoft,DC=com
 Source: Building7b\Server2
        No Failures.
 TransportType: intrasite RPC
 options:  isGenerated
  Reason:  RingTopology
          Replica link has been added.
  ReplicatesNC: DC=DomainDnsZones,DC=microsoft,DC=com
  Reason:  RingTopology
          Replica link has been added.
  ReplicatesNC: CN=Configuration,DC=microsoft,DC=com
  Reason:  RingTopology
          Replica link has been added.
  ReplicatesNC: DC=microsoft,DC=com
  Reason:  RingTopology
          Replica link has been added.
  ReplicatesNC: CN=Schema,CN=Configuration,DC=microsoft,DC=com
  Reason:  RingTopology
          Replica link has been added.
Connection --
    Connection name : 2357ff7a-4e54-46e2-a387-2e35b0560ab7
    Server DNS name : server2.microsoft.com
    Server DN  name : CN=NTDS Settings,CN=RKTLABDC2,CN=Servers,CN=Building7b,CN=Sites,CN=Configuration,DC=microsoft,DC=com
        Source: Building7b\Server2
                No Failures.
        TransportType: intrasite RPC
        options:  isGenerated
        ReplicatesNC: DC=DomainDnsZones,DC=microsoft,DC=com
        Reason:  RingTopology
                Replica link has been added.
        ReplicatesNC: DC=ForestDnsZones,DC=microsoft,DC=com
        Reason:  RingTopology
                Replica link has been added.
        ReplicatesNC: CN=Configuration,DC=microsoft,DC=com
        Reason:  RingTopology
                Replica link has been added.
        ReplicatesNC: DC=microsoft,DC=com
        Reason:  RingTopology
                Replica link has been added.
        ReplicatesNC: CN=Schema,CN=Configuration,DC=microsoft,DC=com
        Reason:  RingTopology
                Replica link has been added.
2 connections found.
```

Example 8: Display the replication signature for a server

The following example uses the **showsig** operation of Repadmin to show the replication signature for a server.

No parameters are required for the **showsig** operation. In this example, a remote connection is assumed so the server name (*DC_LIST* in the syntax) is specified.

Type the following at the command prompt:

```
repadmin /showsig server1.microsoft.com
```

Press Enter and the following output is displayed:

📋 Copy Code

```
server1.microsoft.com
Building7a\server1

Current DC invocationID: 415db077-1e28-4588-b255-c5bb9af6f50b (current)

No retired signatures.
```

Example 9: Display the context handles for the replication process

The following example uses the **showctx** operation of Repadmin to show the open connections to the server that are established by remote servers.

No parameters are required for the **showctx** operation. This example specifies the server name (*DC_LIST* in the syntax) on which the check should be performed.

Type the following at the command prompt:

```
repadmin /showctx server2.microsoft.com
```

Press Enter and the following output is displayed:

Copy Code

```
server1.microsoft.com
Caching GUIDs.
..
3 open context handles.

NTDSAPI client @ 10.193.36.209 (PID 1528) (Handle 0x20b8a38)
    bound, refs=1, last used 2002-09-09 14:21:41

Building7a\Server1 @ 10.193.36.210 (PID 460) (Handle 0x20b8c40)
    bound, refs=1, last used 2002-09-09 14:23:22

NTDSAPI client @ 10.193.36.210 (PID 2976) (Handle 0x20bb960)
    bound, refs=2, last used 2002-09-09 14:23:28
```

Example 10: Showing the replication status of a forest using replsummary and wildcard characters.

The following example uses the **replsummary** operation and a wildcard character to show a summary of the replication status for all the domain controllers in the forest with a name beginning with 'FOURTH'.

Type the following at the command prompt:

```
repadmin /replsummary FOURTH*
```

Press Enter and the following output is displayed:

Copy Code

```
repadmin /replsummary FOURTH*
Replication Summary Start Time: 2002-09-18 14:54:49

Beginning data collection for replication summary, this may take awhile:

Source DC          largest delta  fails/total  %%  error
 FOURTH-CLT-DC-01            54m:57s    0 /   9    0
 FOURTH-DC-05               41m:23s    0 / 175    0
 FOURTH-DC-06               55m:08s    0 /  66    0
 FOURTH-DC-07               09m:29s    0 /  97    0
 FOURTH-DC-08             18h:05m:02s   56 /  56  100  (1722) The RPC server is unavailable.
 FOURTH-DC-09               56m:47s    0 /  12    0
 FOURTH-DC-10               55m:10s    0 /  13    0
 FOURTH-DC-11               56m:48s    0 /  46    0
 FOURTH-DC-12               57m:09s    0 /  34    0
 FOURTH-DC-13               55m:52s    0 /  64    0
 FOURTH-DC-14               55m:52s    0 /  85    0
 FOURTH-DC-15               09m:21s    0 /  50    0
 FOURTH-DC-16               58m:02s    0 /  37    0
 FOURTH-DC-17               57m:00s    0 /  48    0
 FOURTH-DC-18               57m:00s    0 /  22    0
 FOURTH-DC-19               58m:02s    0 /  22    0
 FOURTH-DC-20               08m:05s    0 /  22    0
 FOURTH-DC-21               05m:43s    0 /  22    0
 FOURTH-DC-22             09h:06m:29s    0 / 199    0
 FOURTH-DC-23               09m:29s    0 /  34    0
 FOURTH-DC-24               56m:48s    0 / 184    0
 FOURTH-DC-25               41m:22s    0 /  71    0
 FOURTH-DC-26               08m:16s    0 / 108    0
 FOURTH-DC-30               55m:13s    0 /  47    0
 FOURTH-DC-31               41m:23s    0 /  56    0
 FOURTH-SVC-DC-40           57m:02s    0 /   9    0
 FOURTH-TK-DC-27            07m:02s    0 /  54    0
 FOURTH-TK-DC-28            08m:01s    1 / 161    0  (8461) The replication operation was preempted.
 FOURTH-TK-DC-29            55m:10s    0 / 115    0

Experienced the following operational errors trying to retrieve replication information:
        58 - fourth-dc-08.fourthcoffee.com
```

Example 11: Showing the attributes of a specific object.

The following example uses the **showattr** operation to show the attributes of a specific object in the Active Directory.

Type the following at the command prompt:

```
repadmin /showattr fsmo_dnm: ncobj:config: /subtree /filter:
(objectClass=crossRef) /atts:nCName,dnsRoot,net,dnsRoot,net,biosname,systemFlags /homeserver:FOURTH-DC-26
```

Press Enter and the following output is displayed:

Copy Code

```
repadmin running command /showattr against server aseanl-test2.fourthcoffee.com

DN: CN=Enterprise Configuration,CN=Partitions,CN=Configuration,DC=fourthcoffee,DC=com
    1> nCName: CN=Configuration,DC=fourthcoffee,DC=com
    1> dnsRoot: fourthcoffee.com
```

```
        1> systemFlags: 0x1 = ( FLAG_CR_NTDS_NC )
DN: CN=fourthcoffee,CN=Partitions,CN=Configuration,DC=fourthcoffee,DC=com
        1> ncName: DC=fourthcoffee,DC=com
        1> dnsRoot: fourthcoffee.com
        1> systemFlags: 0x3 = ( FLAG_CR_NTDS_NC | FLAG_CR_NTDS_DOMAIN )
DN: CN=Enterprise Schema,CN=Partitions,CN=Configuration,DC=fourthcoffee,DC=com
        1> ncName: CN=Schema,CN=Configuration,DC=fourthcoffee,DC=com
        1> dnsRoot: fourthcoffee.com
        1> systemFlags: 0x1 = ( FLAG_CR_NTDS_NC )
DN: CN=866c366e-7877-49e5-8121-67eefd488551,CN=Partitions,CN=Configuration,DC=fourthcoffee,DC=com
        1> ncName: DC=DomainDnsZones,DC=fourthcoffee,DC=com
        1> dnsRoot: DomainDnsZones.fourthcoffee.com
        1> systemFlags: 0x5 = ( FLAG_CR_NTDS_NC | FLAG_CR_NTDS_NOT_GC_REPLICATED )
DN: CN=a07b7cea-1754-478c-84a5-c7b127ba5024,CN=Partitions,CN=Configuration,DC=fourthcoffee,DC=com
        1> ncName: DC=ForestDnsZones,DC=fourthcoffee,DC=com
        1> dnsRoot: ForestDnsZones.fourthcoffee.com
        1> systemFlags: 0x5 = ( FLAG_CR_NTDS_NC | FLAG_CR_NTDS_NOT_GC_REPLICATED )
```

See Also

Concepts

Repadmin Overview
Repadmin Remarks
Repadmin Syntax
Alphabetical List of Tools
Search Overview
Replmon Overview
Movetree.exe
Ldp Overview
Dsastat Overview
Clonepr Overview
Adsiedit Overview
Acldiag Overview

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