

SHOW TIME

Szabó Marcell - 2016. március 11.

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SZERVER OLDAL

SHOW TIME



```
TSMADM [TSM-____D]:SHOW TIME
```

```
Current Date and Time on the Server
```

```
-----
```

```
03/10/2016 11:47:06
```

```
UTC (GMT) Date/Time is: 03/10/16 10:47:06
```

```
Last Noted Date/Time is: 03/10/16 11:47:06
```

```
Daylight Savings Time is in effect: NO
```


SHOW DEV

```
tsm: USERTSM.USR>SHOW DEV
```

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```
tsm: USERTSM.USR>
```

SHOW MEM & SHOW ALLOC

```
tsm: USERTSM.USR>SHOW MEM
```

```
Server Memory Usage Information:
```

```
Server-tracked memory statistics:
```

```
-----  
Total memory allocated          140068613 bytes  
Base MemUtil (amount requested) 139249413 bytes  
Actual mem allocated            156285856 bytes  
Number of blocks allocated      90987  
Largest block allocated         8192160 bytes
```

```
Page Buffer memory allocated     819200 bytes  
Page Buffers allocated          200 pages  
Page Buffers in use              0 pages  
Max Page Buffers in use         15 pages
```

```
Total memory and Number of blocks allocated includes Page Buffer memory
```

SHOW PENDING



tsmadm.pl | Current TSM server: [TSM

TSMADM [TSM- D]:show PENDIng

The pending table is ready.

Domain	Schedule	Node	Next Execution		Deadline	
	DAILY_START	@ServerAdmin@	03/11/16	05:00:00	03/11/16	06:00:00
AIX	FILE_2200	TSM-SZF	03/10/16	22:00:00	03/10/16	23:00:00
AIX	REPORTER	TSM-SZF	03/11/16	06:00:00	03/11/16	07:00:00
SQL	SQL_FULL	SQLPR _SQL	03/11/16	01:00:00	03/11/16	02:00:00
HYPERV	CLU3_2100	SZEG- C1S-01	03/10/16	21:00:00	03/10/16	22:00:00
HYPERV	CLU1_2200	SZEG- C2L-02	03/10/16	22:00:00	03/10/16	23:00:00
HYPERV	CLU1_2200	SZEG- C2L-01	03/10/16	22:00:00	03/10/16	23:00:00
HYPERV	CLU1_2200	SZEG- C2L-04	03/10/16	22:00:00	03/10/16	23:00:00
HYPERV	CLU1_2200	SZEG- C2L-03	03/10/16	22:00:00	03/10/16	23:00:00
HYPERV	CLU3_2100	SZEG- _C1S-03	03/10/16	21:00:00	03/10/16	22:00:00

SHOW VOLUMEUSAGE <NODE>

```
tsm: USERTSM.USR>Show VOLUMEUSAGE domino  
SHOW VOLUMEUSAGE started.
```

```
Volume SA1516L4 in use by node DOMINO.
```

```
Volume USER03L4 in use by node DOMINO.
```

```
Volume USER08L4 in use by node DOMINO.
```

```
SHOW VOLUMEUSAGE completed.
```


SHOW CONFIG



tsmadm.pl | Current TSM se

```
Last known in use by ThreadId=36395
Participants=0, summaryVote=ReadOnly
EndInFlight False, endThreadId 0, tmidx 0, processBatchCount 0, mustAbort
slot -> 184:
Tsn=0:1539768, Resurrected=False, InFlight=False, Distributed=False, Persiste
Start ThreadId=24, Timestamp=03/10/16 15:29:37, Creator=admactlg.c(3271)
End ThreadId=24, Timestamp=03/10/16 15:29:37, Source=admactlg.c(3783)
Last known in use by ThreadId=24
Participants=2, summaryVote=ReadOnly
EndInFlight True, endThreadId 24, tmidx 0, processBatchCount 0, mustAbort
Participant DB: voteReceived=False, ackReceived=False
Participant ADM: voteReceived=False, ackReceived=False
slot -> 186:
Tsn=0:1539770, Resurrected=False, InFlight=True, Distributed=False, Persiste
Start ThreadId=36395, Timestamp=03/10/16 15:29:37, Creator=admcmd.c(2590)
Last known in use by ThreadId=36395
Participants=1, summaryVote=ReadOnly
EndInFlight False, endThreadId 0, tmidx 0, processBatchCount 0, mustAbort
Participant DB: voteReceived=False, ackReceived=False
DB: Txn 111bee1a8, ReadOnly(YES), connP=111bf0c08, applHandle=43589, o
DB: --> OpenP=1215ed568 for table=Schedule.Assocation.
DB: --> OpenP=120af6de8 for table=Schedules.
DB: --> OpenP=121480c88 for table=Copy.Groups.
DB: --> OpenP=111c2dde8 for table=Policy.Sets.
```


SHOW ARCHIVE <NODE> <FS>



tsmadm.pl | Current TSM server: [TSM-SZEGED]

[illegible]

SHOW CSVARS



```
TSMADM [TSM-*****D]:SHOW CSVARS
Max % Scheduled Sessions : 50
  Max Scheduled Sessions : 25
    Retain Event Recs : 10
      Randomize Pct : 25
    Period for sched Query : -1
  Max Retries for failure : -1
    Time between retries : -1
      Scheduling Modes : Any
    Sch Sessions in use : 0
  Schedule Manager Active : TRUE
    Pending Table is Ready : TRUE
      Prompter Active : TRUE
  Command Execution Active : FALSE
    Timer Active : TRUE
      Next Execution : 03/10/16 21:00:00
        Next Deadline : 03/10/16 16:19:46
    Event Deletion Active : FALSE
      Last Event Deletion : 02/29/16 00:00:00
        Randomization Seed : 18446744072612679935
  Command Scheduler Active : FALSE
    Scheduled Commands Running: 0
      Last Schedule Index : 0
  High Water Sched Index : 1
  Client Action Duration : 5
  Admin Schedules Running: *** Empty list ***
  Events with Waiters: *** Empty list ***
```



SHOW SESSION



```
tsm: TSM-      D>SHOW SESSION
Session 17834:   Type=INBOUND_SERVER2SERVER,   Id=           _LF
Platform=AIX, NodeId=10, Owner=                _LF
Last FsId=0
SessType=18, Index=0, TermReason=0
threadId=718880
ProxyByAgent False
RecvWaitTime=0.000 (samples=0)
Backup  Objects ( bytes )   Inserted: 0 ( 0 )
Backup  Objects ( bytes )   Restored: 0 ( 0 )
Archive Objects ( bytes )   Inserted: 0 ( 0 )
Archive Objects ( bytes )   Retrieved: 0 ( 0 )
Last Verb ( Ping ), Last Verb State ( Sent )
Global id reports 0 mount points in use
```


Library

SHOW LIBRARY



```
tsmadm.pl | Current TSM

TSMADM [TSM-      D]:show libra | more
MMSV->libList: head=112411e08, tail=112411e08
Library TLSZ      (type SCSI):
  refCount=0, online=1, updateCount=0
  basicCfgBuilt=1, libInfoBuild=1, definingPathToLibrary=0
  addLibPath=0, borrowedDrives=0
  passthru=-1
  Library is shared.
  library extension at 1124453c8
    Serial Number: (0000078BA1860401)
    WWN: (5005076044115405)
SCSI library scanInProgress=0, relabelScratch=0
autochanger list:
  dev=/dev/smcszeg01p1, busy=0, online=1
drive list:
  DRV03:
    Device Type = LTO,
    Drive state: EMPTY, Drive descriptor state: NO PENDING CHANGES,
    Online = 1, polled = 0, nativeFilePolled = 0
    Inquiry String = ,
    Device Type From Inquiry = 127,
    RD Capabilities = 00000FC0,
      (ULTRIUM6C,ULTRIUM6,ULTRIUM5C,ULTRIUM5,ULTRIUM4C,ULTRIUM4),
    WR Capabilities = 00000F00,
      (ULTRIUM6C,ULTRIUM6,ULTRIUM5C,ULTRIUM5),
    Serial Number: (00078B7065)
    WWN: (5005076044115406)
    Owner: *NONE*, owner's volume is *NONE*,
    priorReadFailed = 0, priorWriteFailed = 0, priorLocateFailed = 0,
    Update count = 0, checking = 0, passthru = -1,
```

Library

SHOW LIBINVENTORY



tsmadm.pl | Current TSM server: [TSM-SZEGED] | AIX | v7.1.3.100

[illegible]

Library

SHOW SLOTS <LIBRARY>


```
TSMADM [TSM-SZ  D]:show slots tlsxeged |more
PVR slot information for library TLSZ  D.
Library          : TLSZ  D
Product Id       : 03584L32
Support module   : 4
Mount count      : 0
Drives           : 12
Slots            : 732
Changers         : 2
Import/Exports   : 255
Device           : /dev/smcszeg01p1
Drive  0, element 257
Drive  1, element 258
Drive  2, element 259
Drive  3, element 260
Drive  4, element 261
Drive  5, element 262
Drive  6, element 263
Drive  7, element 264
Drive  8, element 265
Drive  9, element 266
Drive 10, element 267
Drive 11, element 268
```


Storage Pool

SHOW DAMAGED

Storage Pool


SHOW TRANSFERSTATS



```
tsmadm.pl | Current
TSMADM [TSM-SZ  ]:show transferstats VMW_FILE | more
Statistics for last migration from pool VMW_FILE
  Volume migrated: /tsm                               ;C2.BFS
  Start date/time: 02/25/16 14:51:28
  Elapsed time: 25215 seconds
  Total wait time: 1171 seconds
  Number of participating processes: 0
  Total duration of all processes: 0 seconds
  Total physical files: 56310
  Total logical files: 63351
  Total bytes: 7372114832783
  Average logical files per physical file: 1.1
  Average physical file size: 127851 KB
  Number of batch/file transactions ended: 1733
  Number of batch transactions aborted: 0
  Number of file transactions started: 0
  Number of file transactions aborted: 0
No storage pool backup information available for VMW_FILE.
Statistics for last reclamation from pool VMW_FILE
  Volume reclaimed:
  Start date/time: 02/27/16 10:00:27
```

Storage Pool

SHOW SSPOOL



tsmadm.pl | Current TSM s

```
TSMADM [TSM-    ]:SHOW SSPOOL | more
-> Pool AIX_FILE(35): Strategy=30, ClassId=19, ClassName=DCFILEAIX,
    Next=4, ReclaimPool=0, HighMig=90, LowMig=70, MigProcess=1, Access=
    MaxSize=0, Cache=0, Collocate=3, Reclaim=60, MaxScratch=99,
    ReuseDelay=0, crcData=False, verifyData=True,
    ReclaimProcess=1, OffsiteReclaimLimit=NoLimit, ReclamationType=0
    Index=0, OpenCount=0, CreatePending=False, DeletePending=False
    CopyPoolCount=0, CopyPoolIdList=, CopyContinue=Yes
    deduplicate=False, identifyProcess=1
    Shreddable=False, shredCount=0
    AutoCopy=Client
    AS Extension: NumDefVols=27, NumEmptyVols=0,
    NumScratchVols=27, NumRsvdScratch=0
-> Pool AIX_LTO(4): Strategy=30, ClassId=2, ClassName=DCLTO01,
    Next=0, ReclaimPool=0, HighMig=90, LowMig=70, MigProcess=1, Access=
    MaxSize=0, Cache=0, Collocate=1, Reclaim=60, MaxScratch=99,
    ReuseDelay=0, crcData=False, verifyData=True,
    ReclaimProcess=1, OffsiteReclaimLimit=NoLimit, ReclamationType=0
    Index=1, OpenCount=0, CreatePending=False, DeletePending=False
    CopyPoolCount=0, CopyPoolIdList=, CopyContinue=Yes
    deduplicate=False, identifyProcess=1
    Shreddable=False, shredCount=0
```

Deduplikáció

SHOW DEDUPPENDING <STGP>

```
tsm: USERTSM.USR>show deduppending DEDUP  
ANR1015I Storage pool DEDUP has 0 duplicate bytes pending removal.
```


Deduplikáció

SHOW DEDUPDELETEINFO

```
**** Dedup Deletion General Status ****
```

```
Number of worker threads      : 8  
Number of active worker threads : 0  
Number of suspended workers   : 0  
Number of workers to suspend  : 0  
Number of chunks waiting in queue : 0  
Total number of chunks processed : 0
```

```
**** Dedup Deletion Worker Info ****
```

```
Worker thread 1 is not active
```

```
Worker thread 2 is not active
```

```
Worker thread 3 is not active
```

```
Worker thread 4 is not active
```

```
Worker thread 5 is not active
```

```
Worker thread 6 is not active
```

```
Worker thread 7 is not active
```

```
Worker thread 8 is not active
```


Replikáció

SHOW REPLICATION

```
tsmadm.pl | Current TSM server: [TSM-HMVH] | AIX
TSMADM [TSM- ]:show repl| more
Replication is enabled, reason=0
Server Id: 0, Guid: 04.ac.e6.6e.93.84.11.e5.87.99.48.63.ac.12.11.ad, Name: TSM-H
Server Id: 1, Guid: d2.b4.80.3e.92.fe.11.e5.a1.ba.48.63.ac.12.11.ac, Name: TSM-S
Replication Process 5036
  tapeBatches: 1          delBatches: 0
Entry 0
  server: TSM-S2
  pri: 8          state: Complete
  nodeName: TSMV W fsName: \VMFULL-
  nodeId: 58      fsId: 1          replMode: 0
  copyType: Backup lowIdx: 0      highIdx: 0
  purge: No      rc: 0          activeOnly: No
  numBatches: 0  hasTape: No      serverId: 1
  tgtNodeId: 69  tgtFsId: 1      updCount: 0
Backup Stats, statsP at 1124715c8
  file stats:
    Current: 94      To repl: 0      Repld: 0
    Repl errT: 0     Repl errS: 0
    To upd: 0        Updated: 0      Upd err: 0
    To del: 0        Deleted: 0      Del err: 0
    indentify time: 1 seconds
  byte stats:
    To repl: 0      Repld: 0      Xferred: 0
    Repl errT: 0    Repl errS: 0
    Xfer time: 0 seconds
  batchesQ: 0      batchesD: 0
Entry 1
```

KLIENS OLDAL

SHOW VM ALL

```
122.vmName:      zfwindows7.usr
  hostAddress:
  tsmNodeName:
  displayName:    zfwindows7.usr
  ipAddress:
  datacenter:     USER_dc
  hostSystem:     vhost1.usr.user.hu
  guestFolder:    Discovered virtual machine
  guestFullName:  Microsoft Windows 7 (64-bit)
  altGuestName:
  guestId:        windows7_64Guest
  uuid:           4226c969-fb91-6468-d988-aa2c76030a32,   moref: vm-143
  instance uuid:  502692ca-fee7-fc58-b333-be74be3119ae
  guestState:     notRunning      connectionState: connected
  changeTracking: Off            vmHWversion:          vmx-09
  toolsRunningStatus: guestToolsNotRunning
  toolsVersion: 9226             toolsVersionStatus: guestToolsSupportedOld
  consolidationNeeded: No
  vmFaultTolerant: No
  domainKeyword:
  domainSelected: No
  cluster:        USER_cl
  vApp:
  resourcePool:   zfelleg_rp
  VMDK[1]Label:   'Hard disk 1' (Hard Disk 1)
  VMDK[1]Name:    '[vmfs-06] zfwindows7.usr/zfwindows7.usr.vmdk'
  VMDK[1]Status:  Included
```

SHOW VERSION

```
tsm> show version
IBM Tivoli Storage Manager
Command Line Backup-Archive Client Interface
  Client Version 7, Release 1, Level 0.2
  Client date/time: 2016-03-10 20.17.01
build date:  Mon Feb 24 21:00:18 2014
tsm> |
```


SHOW OPTIONS

```
tsm> SHOW OPTIONS
      ACTIVATEKEY: YES
      AFSBACKUPMNTPT: YES
      ALLOWWILDCARDCH: NO
      ARCHMC:
      ARCHSYMLINKASFILE: YES
      ASNODENAME:
      ASRFILESPATH:
      ASRMODE: NO
      AUTOFSRENAME: PROMPT
      AUDITLOGGING: OFF
      AUDITLOGNAME: /opt/tivoli/tsm/client/ba/bin/dsmaudit.log
      AUTOMOUNT:
      AUTODEPLOY: YES
      BACKMC:
      BACKUPREGISTRY: YES
      CANDIDATESINTERVAL: 1
      CASESENSITIVEAWARE: NO
      CHANGINGRETRIES: 4
      CHECKFORORPHANS: NO
      CHECKREPARSECONTENT: NO
      CHECKTHRESHOLDS: 5
      CLIENTVIEW: STANDARD
      CLUSTERDISKONLY: NO
      CLUSTERNODE: NO
      COMMETHOD: TCP/IP
      COLLOCATEBYFILESPEC: NO
      COMMRESTARTDURATION: 60
```

SHOW OPTABLE

```
Option Name      : TCPSEnDBuffsize
Server administered : NO
Option id        : 838
Environment      : 0xffffffff [ All ]
Client type      : 0x0000ffff [ All ]
Valid mode       : 0x00000003 [ dsm.opt(Intel) dsm.sys(UNIX) ]
Processing rule   : Function
Rule values      : PARM1=0, PARM2=2048
Integer default   : 18446744073709551615
String default    : None
Keyword list      : None
```

```
Option Name      : TCPWindowSize
Server administered : NO
Option id        : 369
Environment      : 0xffffffff [ All ]
Client type      : 0x0000ffff [ All ]
Valid mode       : 0x00000003 [ dsm.opt(Intel) dsm.sys(UNIX) ]
Processing rule   : Function
Rule values      : PARM1=0, PARM2=2048
Integer default   : 64512
String default    : None
Keyword list      : None
```

SHOW SYSTEMSTATE

```
IBM Tivoli Storage Manager
IBM Tivoli Storage Manager
Command Line Backup-Archive Client Interface
  Client Version 6, Release 3, Level 0.18
  Client date/time: 03/10/2016 20:20:43
(c) Copyright by IBM Corporation and other(s) 1990, 2012. All Rights Reserved.

Node Name: ACCOUNTING
Session established with server USERTSM.USR: Linux/x86_64
  Server Version 7, Release 1, Level 1.300
  Server date/time: 03/10/2016 20:19:39  Last access: 03/10/2016 20:19:11

tsm> show systemstate
stat  rc      USS writer (sub command)
-----
OK    0000    COM+ REGDB Writer (COMPDB)
OK    0000    Registry Writer (REGISTRY)
OK    0000    System Writer (SYSFILES)
OK    0000    Event Log Writer (EVENTLOG)
OK    0000    TermServLicensing (TLS)
OK    0000    WMI Writer (WMI)
tsm> _
```


SHOW DOMAIN

```
IBM Tivoli Storage Manager
IBM Tivoli Storage Manager
Command Line Backup-Archive Client Interface
  Client Version 6, Release 3, Level 0.18
  Client date/time: 03/10/2016 20:20:14
(c) Copyright by IBM Corporation and other(s) 1990, 2012. All Rights Reserved.

Node Name: ACCOUNTING
Session established with server USERTSM.USR: Linux/x86_64
  Server Version 7, Release 1, Level 1.300
  Server date/time: 03/10/2016 20:19:11  Last access: 03/10/2016 05:03:50

tsm> show domain
Domain specifications:
domain keywords: not specified
-domain         : not specified
Domains in effect:
domain          : \\accounting\\c$
domain          : SYSTEMSTATE
domain.image    : not specified
domain.nas      : not specified
domain.snapshot : not specified
tsm> _
```

TSM TÁBLÁK

COLUMNS, EVENTS, LIBRARIES, SERVERS, TABLES, COLUMNS, TABLES, COLUMNS, TABLES, ACTIVITY_SUMMARY, **ACTLOG**, ADMINS, ADMIN_SCHEDULES, ADMIN_SCHEDULES_GUI, ARCHIVES, AR_COPYGROUPS, ASSOCIATIONS, AUDITOC, BACKUPS, BACKUPSETS, BU_COPYGROUPS, CLIENTOPTS, **CLIENT_SCHEDULES**, CLIENT_SCHEDULES_GUI, CLOPTSETS, COLLOCGROUP, COLUMNS, CONTAINERS, CONTENTS, DAMAGED_FILES, DATAMOVERS, DB, DBSPACE, **DEDUPSTATS**, DEDUP_STATS, **DEVCLASSES**, DEVCLASSES_DIR, **DOMAINS**, **DRIVES**, DRMASTGPOOLS, DRMCSTGPOOLS, DRMEDIA, DRMMACHINE, DRMMACHINECHARS, DRMMACHINENODE, DRMMACHINERECINST, DRMMACHINERECMEDIA, DRMPSTGPOOLS, DRMRECOVERYMEDIA, DRMSRPF, DRMSTANZA, DRMSTATUS, DRMTRPF, EVENTS, FILESPACES, GROUPMEMBER, GROUP_MEMBER, **LIBRARIES**, **LIBVOLUMES**, LICENSE_DETAILS, LICENSE_PVU, LOG, MEDIA, MGMTCLASSES, NODEGROUP, **NODES**, **OCCUPANCY**, OPTIONS, **PATHS**, PLATFORM_APPLICATIONS, PLATFORM_BACKUP_COMPONENTS_VIEW, PLATFORM_BACKUP_STATUS_VIEW, PLATFORM_GROUP_SCANS, PLATFORM_PROTECTION_COVERAGE_VIEW, PLATFORM_RELATIONSHIPS, POLICYSETS, PROCESSES, PROFILES, PROF_ASSOCIATIONS, PVUESTIMATE_DETAILS, REPLICATIONVIEW, REPLTASK, RESTORES, SAN, SCRATCHPAD, **SCRIPTS**, SCRIPT_NAMES, SERVERGROUP, SERVERS, SERVER_GROUP, SESSIONS, SHREDSTATUS, SPACEMGFILES, LICENSES, STATUS, STATUSEXPLAIN, **STGPOOLS**, STGPOOL_DIRS, STGSPACETRIGGER, **STORAGEPERFORMANCE**, SUBSCRIPTIONS, **SUMMARY**, SUMMARY_EXTENDED, TABLES, TSMGUI_ALLCLI_GRID, TSMGUI_ALLDEV_GRID, TSMGUI_ALLPOL_GRID, TSMGUI_ALLSRV_GRID, TSMGUI_ALLSTG_GRID, TSMGUI_CLIASS_GRID, TSMGUI_DASH_GRID, TSMGUI_MAINT_GRID, TSMGUI_REPLSRV_GRID, TSMGUI_SCHADMSCR_GRID, TSMGUI_SCHCLI_GRID, TSMGUI_STATUS_DATA, TSM_MON_ALERT, TSM_MON_ALERTTRIG, TSM_MON_CMDHIST, TSM_MON_PENDINGCMD, TSM_MON_SETTINGS, TSM_MON_STATUS, TSM_MON_THRESHOLDS, VFSMAPPINGS, **VOLHISTORY**, **VOLUMES**, VOLUMEUSAGE,

PRO TIPP

- Használd a TSM tábláit
- `select tablename from tables`
- `select * from columns where TABNAME='<TÁBLA NEVE>'`
- <http://thobias.org/tsm/sql/>

FORRÁSOK

- http://www.mm-it.at/de/TSM_Show_Commands.html
- <http://www.lascon.co.uk/tsm-show-commands.php>
- <https://adsm.org/forum/index.php?threads/undocumented-show-commands.6497/>
- PMR-ek

KÖSZÖNÖM A FIGYELMET!