



Sdružení uživatelů Informix & DB2

Tivoli Storage Manager, aneb co jste ještě ve vztahu k IDS možná nevěděli

Jan Musil

Community of Practice for CEEMEA

(jan_musil@cz.ibm.com)

Agenda

- Předpoklady pro zálohování prostřednictvím TSM
- Konfigurace TSM serveru
- Konfigurace TSM klienta
- Konfigurace IDS
- Testování zálohování

Předpoklady pro zálohování prostřednictvím TSM

- Od verze IDS 10.0 je podpora TSM součástí instalace
- Starší verze IDS vyžadovaly instalaci TSM modulu pro databáze
- Nyní stačí pouze TSM Server a TSM klient

Konfigurace TSM serveru

```
[root@rhel bin]# pwd
/opt/tivoli/tsm/server/bin
[root@rhel bin]# ./dsmerv .....
```

```
define stgpool ifmx_data_pool disk
define stgpool ifmx_logs_pool disk
define volume ifmx_data_pool data.1 formatsize=500
define volume ifmx_logs_pool logs.1 formatsize=500
define domain ifmxdomain
define policysset ifmxdomain ifmxpolicy
define mgmtclass ifmxdomain ifmxpolicy ifmx_data
define mgmtclass ifmxdomain ifmxpolicy ifmx_logs
define copygroup ifmxdomain ifmxpolicy ifmx_data destination=ifmx_data_pool
define copygroup ifmxdomain ifmxpolicy ifmx_logs destination=ifmx_logs_pool
assign defmgmtclass ifmxdomain ifmxpolicy ifmx_data
validate policysset ifmxdomain ifmxpolicy
activate policysset ifmxdomain ifmxpolicy
register node rhel informix domain=ifmxdomain
```

Heslo pro txbsapswd

Konfigurace TSM klienta

```
root@rhel:/opt/tivoli/tsm/client/api/bin
File Edit View Terminal Tabs Help
[root@rhel bin]# pwd
/opt/tivoli/tsm/client/api/bin
[root@rhel bin]# cat dsm.opt

SErvername      ifmx

[root@rhel bin]# cat dsm.sys

SErvername  ifmx
COMMMethod  TCPip
TCPPort     1500
TCPSeveraddress  rhel
PASSWORDACCESS  GENERATE
NODENAME    rhel
INCLEXCL    /opt/tivoli/tsm/client/api/bin/ifmx_incl.def

[root@rhel bin]# cat ifmx_incl.def

include /onshm/.../* ifmx_logs
include /onshm/.../[0-2] ifmx_data

[root@rhel bin]#
```

Konfigurace IDS

(1/2)

```
root@rhel:/home/informix/ids/bin
File Edit View Terminal Tabs Help
[root@rhel lib]# cd $INFORMIXDIR/lib
[root@rhel lib]# ls -l libtxbsa.so
-r-xr-xr-x 1 informix informix 55482 Oct 28 06:21 libtxbsa.so
[root@rhel lib]# ln -s libtxbsa.so ibsad001.so
[root@rhel lib]# ls -l ibsad001.so
lrwxrwxrwx 1 root root 11 Mar 17 12:30 ibsad001.so -> libtxbsa.so
[root@rhel lib]# cd $INFORMIXDIR/bin
[root@rhel bin]# ./txbsapswd
*****
*      Informix Interface for Tivoli Storage Manager      *
*      Password file initialization program                *
*>>  this must be run by the ROOT user if updating the value <<*>
*****
Enter your current password:
Enter your new password:
Enter your new password again:

Your new password has been accepted on the TSM server.
[root@rhel bin]#
```

Konfigurace IDS

(2/2)

```
informix@rhel:~/ids/etc
File Edit View Terminal Tabs Help
[informix@rhel ~]$ cd $INFORMIXDIR/etc
[informix@rhel etc]$ cat sm_versions
1|5.5.0|adsm|5
[informix@rhel etc]$ cat $ONCONFIG|egrep "^LTAPEDEV|^ALARMPROGRAM"
LTAPEDEV /not/null
ALARMPROGRAM $INFORMIXDIR/etc/alarmprogram.sh
[informix@rhel etc]$ cat alarmprogram.sh|egrep "^BACKUPLOGS"
BACKUPLOGS=Y
[informix@rhel etc]$
```

Testování zálohování

- Provedení plné zálohy IDS

```
$ onbar -b
```

- Výpis zálohy v TSM

```
q content data.1
```

```
q content logs.1
```

```
root@rhel:/opt/tivoli/tsm/server/bin
File Edit View Terminal Tabs Help
TSM:SERVER1>
q content data.1
ANR2017I Administrator SERVER_CONSOLE issued command: QUERY CONTENT data.1
```

Node Name	Type	Filespace Name	FSID	Client's Name for File
RHEL	Bkup	/onshm	1	/onshm/rootdbs/ 0
RHEL	Bkup	/onshm	1	/onshm/datadbs/ 0
RHEL	Bkup	/onshm	1	/onshm/sbospace/ 0

```
TSM:SERVER1>
q content logs.1
ANR2017I Administrator SERVER_CONSOLE issued command: QUERY CONTENT logs.1
```

Node Name	Type	Filespace Name	FSID	Client's Name for File
RHEL	Bkup	/onshm	1	/onshm/0/ 5
RHEL	Bkup	/onshm	1	/onshm/0/ 6
RHEL	Bkup	/onshm	1	/onshm/0/ 7

Děkuji za pozornost

jan_musil@cz.ibm.com