



Texas Skyward User Group Conference

Disaster Recovery Planning: An Ounce of Prevention



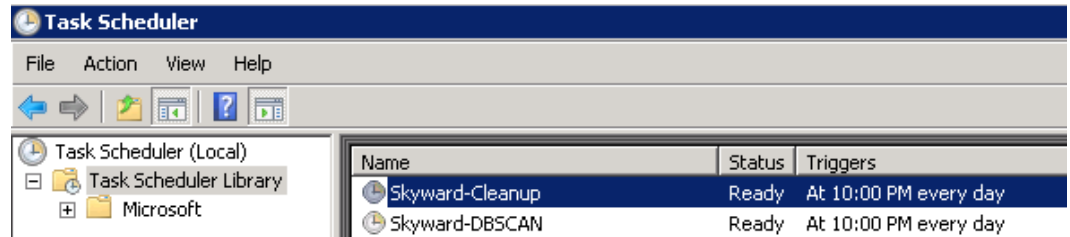
Are you prepared and ready?

- Backup Plan on local Skyward server
- Backup Plan on District Location
- Disaster Recovery options
- Test the Skyward backup file



Local Skyward Server

- Is there a backup process for the database?
- Yes. When the Role – Database Server installer was run an Online Backup task was setup in Task Scheduler – Windows.



Local Skyward Server

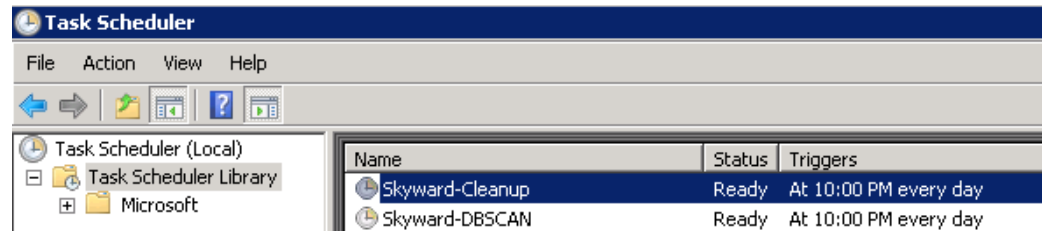
- What is the process that runs the backup?
- Windows – dbscan.bat



- Most current dbscan.bat file is located at FTP\Hardware\Public\scripts\Windows folder

Local Skyward Server

- How often does the backup process run?
- Be default this process runs at 10PM nightly.

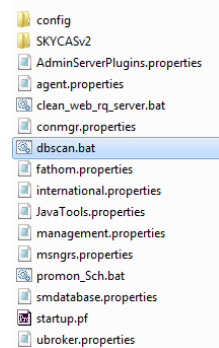


Local Skyward Server

- What else is in the ?:\skyward\backup folder?

```
copy %DLC%\properties\*.properties %BackupDir%
copy %DLC%\startup.pf %BackupDir%
copy %CustRptDir%\*.* %BackupDir%\custreports\
copy %ConfigDir%\*.* %BackupDir%\config\
```

- The OpenEdge parameters from the \dlc\properties folder.
- The OpenEdge startup.pf file
- The \Custreports folder for custom Crystal Reports
- The \config folder where setup files and Monolith CAS folder is located.



Local Skyward Server

- Can I rebuild a server with the contents of the backup folder?
- Yes. Customers could do it themselves. You will need the \Install files. They can be downloaded at
- <https://support.skyward.com/Page.ashx/ITServices/TechnicalInformation/SkyInstallDocs>
- You will minimally need the contents of the \backup folder.

[Download Server/Client Installers](#)

10.2B Windows Installers

Local Skyward Server

- How do I know if the backup file is corrupt?
- The probkup utility checks the integrity and validity of all database blocks and copies them to a physical backup file.
- If database blocks are found corrupt, the display message will indicate this and the backup file will not be created.

```
**** Online Backup of Skyward Student Database ****
OpenEdge Release 10.2B08 as of Tue Nov 12 19:08:07 EST 2013
249271 active blocks out of 249413 blocks in C:\skyward\data\SKYWARD will be dumped. (6686)20736 BI blocks will be
dumped. (6688)Backup requires an estimated 2.1 GBytes of media. (9285)Restore would require an estimated 270284 db
blocks using 2.1 GBytes of media. (9286)Backed up 270007 db blocks in 00:00:57wrote a total of 1597 backup blocks
using 424.2 MBytes of media. (13625)Backup complete. (3740)

**** Verify Backup of Skyward Student Database ****
OpenEdge Release 10.2B08 as of Tue Nov 12 19:08:07 EST 2013
This is a full backup of C:\skyward\data\SKYWARD.db. (6759)This backup was taken Tue Sep 16 08:28:27 2014. (6760)
The blocksize is 8192. (6994)Partial verification successfully read backup volume. (6765)Verify pass started.
(3751)verified 270007 db blocks in 00:00:05Backup for C:\skyward\data\SKYWARD.db verified ok. (6758)
```

Local Skyward Server

- Can I restore the database to a certain point-in-time if the disaster was caused by user error or hardware issue?
- Yes, a database can be restored to a certain point in time if After Imaging has been setup and is running on the database.
- The restore will be all of the database to that certain point-in-time.

 skyward.a1 skyward.a2 skyward.a3 skyward.a4 skyward.a5

District Location

- Should I copy the entire backup folder or not?
- Yes, dbscan.bat file uses robocopy to copy the entire contents of the \backup folder.

CopyBackup

```
REM          RoboCopy %BackupDir% \\server_host\share_name
skyback* /r:2 /w:5 /np /log:%BackupDir%\RoboCopy.log
REM          echo. >> %BackupDir%\RoboCopy.log 2>&1 & type
%BackupDir%\RoboCopy.log
```

```
REM          echo **** Sending RoboCopy Email ****
REM          findstr /I "ERROR" %BackupDir%\RoboCopy.log | find /I
"ERROR" > nul
REM          if %errorlevel% EQU 0 goto :RoboCopyFail
REM          goto :RoboCopySuccess
```

```
goto :END
```

District Location

- Are there any other backup options available?
- Some customers use a backup software like Unitrends or Veeam to create a backup of the Skyward server.
- Even though many backup software packages have open file options, integrity of the database cannot be guaranteed when backing up the live database files in the \data folders.



© Can Stock Photo

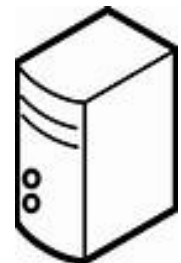
Off-site disaster recovery

- What can I do to guarantee that I am not caught without a recovery if needed?
- You could loose power and not have a power generator. This means you just don't have the Skyward folder, you may not have the Skyward server available.
- Some customers subscribe to the DR solution offered by ISCorp.
- <https://www.iscorp.com/pacdr>



Offline Skyward Server

- Can I use this server for anything other than a 'storage' device?
- You could use it as the Program Server for PaC Business clients.
- You could use it as a server where you have a Training db setup for either Student or Business.
- You could use this server to restore your backup files to verify that the nightly backup process is 'really' successful.





Texas Skyward User Group Conference

THANK YOU FOR ATTENDING!

