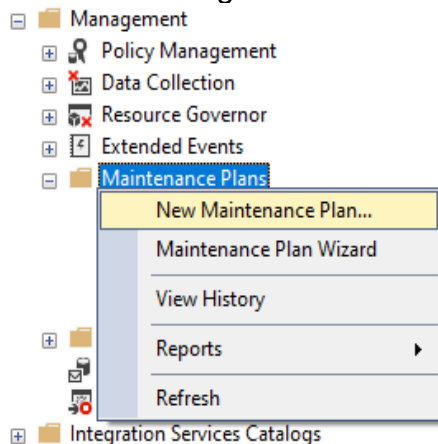


Full, Differential and Transactional Backup

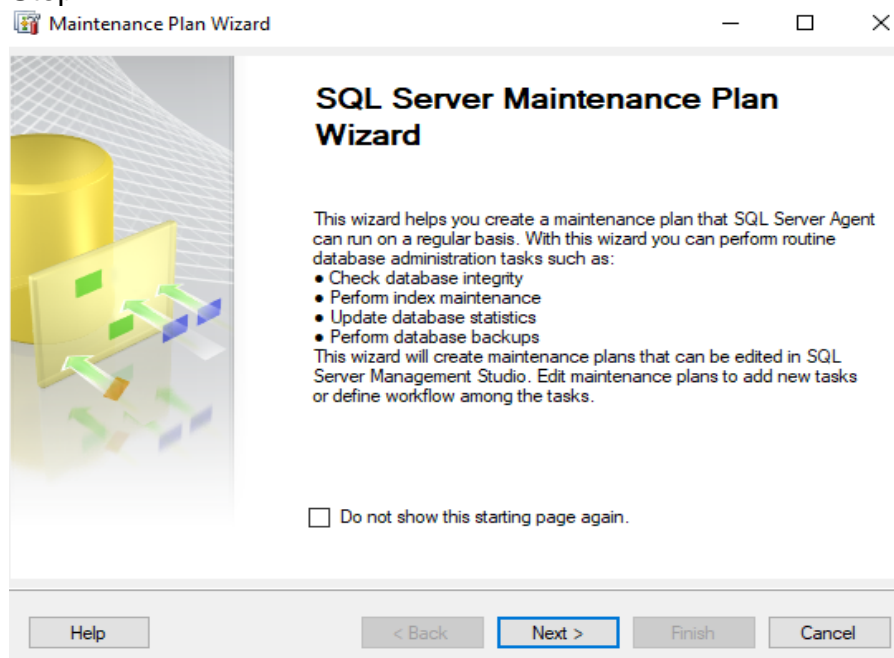
1. Full backup: Tuesday at 12:00 PM
 2. Differential backup: every 4 hours from wednesday and thursday
 3. Transactional backup: every 1 hours on friday
- => System crash on sunday at 11:00 AM

Full Backup:

Step 1: Firstly, open SQL Server, and then navigate to Management => Maintenance Plans and then right-click to choose new maintenance plan.



Step 2:



Name: Full_Backup and click on Change button

Maintenance Plan Wizard

Select Plan Properties
How do you want to schedule your maintenance tasks?

Name:

Description:

Run as:

☐ Separate schedules for each task
☒ Single schedule for the entire plan or no schedule

Schedule:

Every week on Tuesday at 12:00 PM, set full backup. The schedule will be followed beginning on May 30, 2023.

New Job Schedule

Name:

Schedule type: ☒ Enabled

One-time occurrence

Date: Time:

Frequency

Occurs:

Rekurs every: week(s) on

☐ Monday ☐ Wednesday ☐ Friday ☐ Saturday
☒ Tuesday ☐ Thursday ☐ Sunday

Daily frequency

☒ Occurs once at:
☐ Occurs every: hour(s) Starting at: Ending at:

Duration

Start date: ☐ End date: ☒ No end date:

Summary

Description:

Click ok to continue.

Maintenance Plan Wizard

Select Plan Properties
How do you want to schedule your maintenance tasks?

Name: Full_Backup
Description:
Run as: SQL Server Agent service account
☐ Separate schedules for each task
☒ Single schedule for the entire plan or no schedule
Schedule: Not scheduled (On Demand) [Change...](#)

[Help](#) [< Back](#) [Next >](#) [Finish](#) [Cancel](#)

Click next

Maintenance Plan Wizard

Select Maintenance Tasks
Which tasks should this plan perform?

Select one or more maintenance tasks:

- ☐ Check Database Integrity
- ☐ Shrink Database
- ☐ Reorganize Index
- ☐ Rebuild Index
- ☐ Update Statistics
- ☐ Clean Up History
- ☐ Execute SQL Server Agent Job
- ☒ Back Up Database (Full)
- ☐ Back Up Database (Differential)
- ☐ Back Up Database (Transaction Log)
- ☐ Maintenance Cleanup Task

[Help](#) [< Back](#) [Next >](#) [Finish](#) [Cancel](#)

Select Back Up Database (Full) and click next to continue.

Maintenance Plan Wizard

Select Maintenance Task Order
In which order should these tasks be performed?

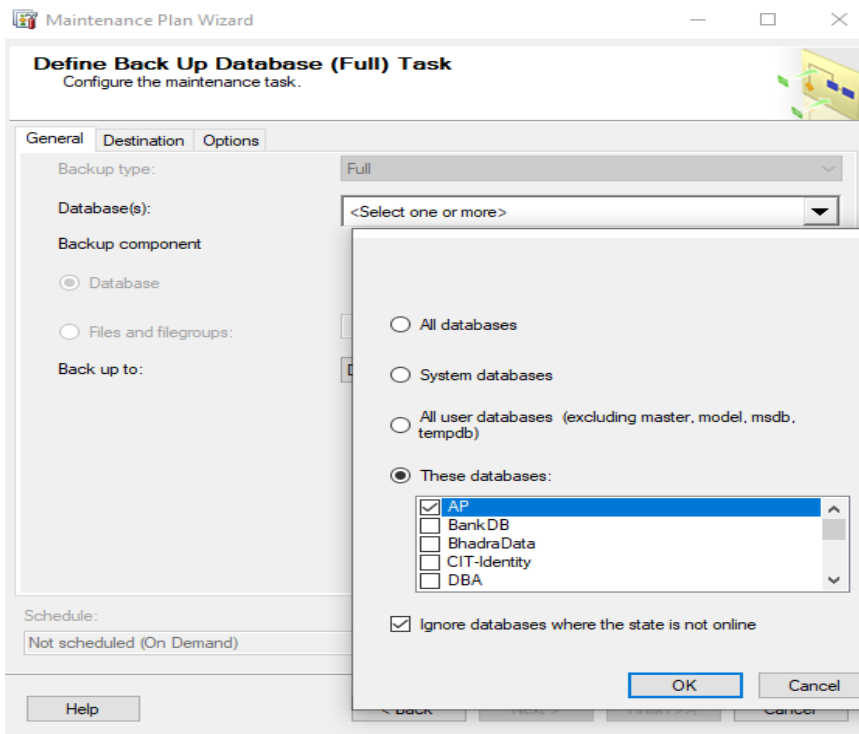
Select the order for the tasks to execute:

Back Up Database (Full)

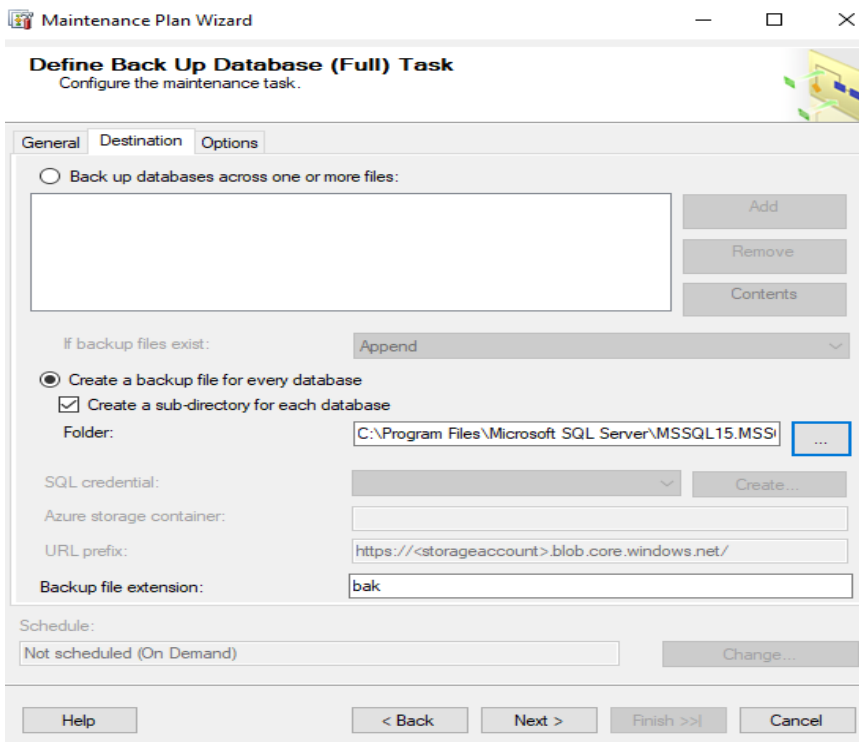
[Move Up...](#) [Move Down...](#)

[Help](#) [< Back](#) [Next >](#) [Finish](#) [Cancel](#)

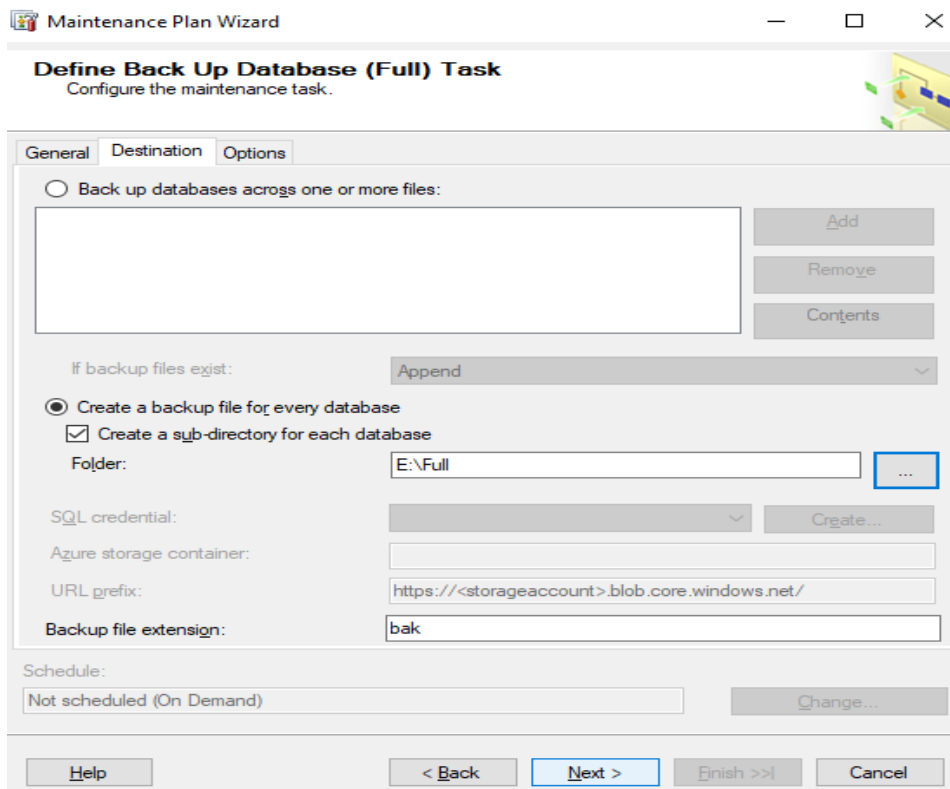
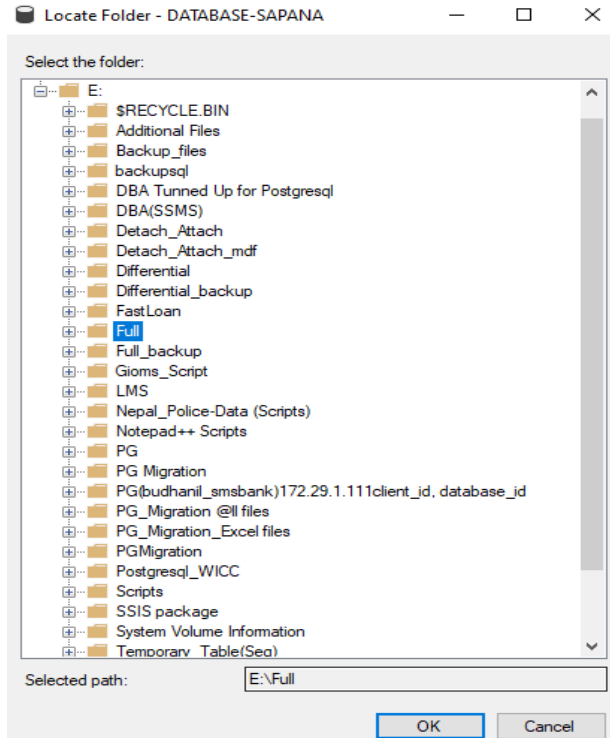
Click Next to continue



Go to General then choose database AP from dropdown box then click ok.



Go to Destination then check create a sub-directory for each database and choose folder 'E:\Full'.



To proceed, leave the options tab unfilled and click next.

Maintenance Plan Wizard

Select Report Options
Select options for saving or distributing a report of the maintenance plan actions.

☐ Write a report to a text file
Folder location: C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSER ...

☐ E-mail report
To: job_fail

Help < Back Next > Finish >> Cancel

Uncheck the report to a text file box and next to continue. Finally, press the Finish button.

Object Explorer

- SSIS
- testsapana
- TrainingDB
- TSQL2012
- Security
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Policy Management
- Data Collection
- Resource Governor
- Extended Events
- Maintenance Plans
 - Differential_Backup
 - Full_Backup

Full_Backup [Design]

Add Subplan | Manage Connections ... | Servers ...


Name: Full_Backup

Description:

Subplan	Description	Schedule	Run as
Subplan_1		Occurs every week on Tuesday,...	SQL Server Agent service account

Back Up Database (Full)
Backup Database on Local server connection
Databases: AP
Type: Full
Append existing
Destination: Disk
Backup Compression (Default)

Differential Backup:

 Maintenance Plan Wizard

Select Plan Properties
How do you want to schedule your maintenance tasks?


Name:

Description:

Run as:

☐ Separate schedules for each task
☒ Single schedule for the entire plan or no schedule

Schedule:

 New Job Schedule

Name:

Schedule type: ☒ Enabled

One-time occurrence

Date: Time:

Frequency

Occurs:

Recurs every: week(s) on

☐ Monday ☒ Wednesday ☐ Friday ☐ Saturday
☐ Tuesday ☒ Thursday ☐ Sunday

Daily frequency

☐ Occurs once at:

☒ Occurs every: hour(s) Starting at: Ending at:

Duration

Start date:

☐ End date:
☒ No end date:

Summary

Description:

Maintenance Plan Wizard

Select Maintenance Tasks

Which tasks should this plan perform?

Select one or more maintenance tasks:

- ☐ Check Database Integrity
- ☐ Shrink Database
- ☐ Reorganize Index
- ☐ Rebuild Index
- ☐ Update Statistics
- ☐ Clean Up History
- ☐ Execute SQL Server Agent Job
- ☐ Back Up Database (Full)
- ☒ Back Up Database (Differential)
- ☐ Back Up Database (Transaction Log)
- ☐ Maintenance Cleanup Task

The Back Up Database (Differential) task allows you to specify the source databases, destination files or tapes, and overwrite options for a differential backup.

Help < Back Next > Finish Cancel

Maintenance Plan Wizard

Select Maintenance Task Order

In which order should these tasks be performed?

Select the order for the tasks to execute:

- Back Up Database (Differential)

Move Up... Move Down...

The Back Up Database (Differential) task allows you to specify the source databases, destination files or tapes, and overwrite options for a differential backup.

Help < Back Next > Finish >> Cancel

Maintenance Plan Wizard

Define Back Up Database (Differential) Task

Configure the maintenance task.

General Destination Options

Backup type: Differential

Database(s): <Select one or more>

Backup component

☒ Database

☐ Files and filegroups:

Back up to:

Schedule: Not scheduled (On Demand)

Help

OK Cancel

< Back Next > Finish >>| Cancel

Maintenance Plan Wizard

Define Back Up Database (Differential) Task

Configure the maintenance task.

General Destination Options

Backup type: Differential

Database(s): Specific databases

Backup component

☒ Database

☐ Files and filegroups:

Back up to: Disk

Schedule: Not scheduled (On Demand) Change...

Help < Back Next > Finish >>| Cancel

Define Back Up Database (Differential) Task

Configure the maintenance task.



General Destination Options

☐ Back up databases across one or more files:

Add

Remove

Contents

If backup files exist:

Append

☒ Create a backup file for every database☒ Create a sub-directory for each database

Folder:

E:\Differential

...

SQL credential:

▼

Create...

Azure storage container:

URL prefix:

https://<storageaccount>.blob.core.windows.net/

Backup file extension:

bak

Schedule:

Not scheduled (On Demand)

Change...

Help

< Back

Next >

Finish >>|

Cancel

Select Report Options

Select options for saving or distributing a report of the maintenance plan actions.

☐ Write a report to a text file

Folder location:

C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSER

...

☐ E-mail report

To:

job_fail

▼

Help

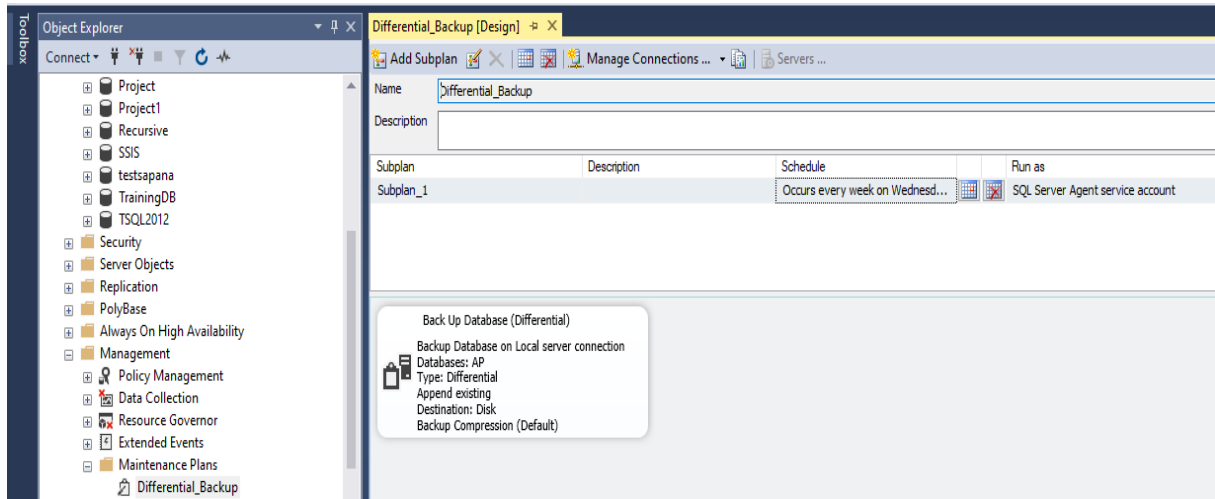
< Back

Next >

Finish >>|

Cancel

Uncheck the report to a text file box and next to continue. Finally, press the Finish button.



Transactional Backup:

New Job Schedule

Name: Transactional_Backup

Schedule type: Recurring ☒ Enabled

One-time occurrence

Date: 5/30/2023 Time: 12:16:55 PM

Frequency

Occurs: Daily

Recurs every: 1 day(s)

Daily frequency

☐ Occurs once at: 12:00:00 AM

☒ Occurs every: 2 hour(s) Starting at: 12:00:00 PM Ending at: 11:59:59 AM

Duration

Start date: 5/30/2023 ☐ End date: 5/30/2023 ☒ No end date:

Summary

Description: Occurs every day every 2 hour(s) between 12:00:00 PM and 11:59:59 AM. Schedule will be used starting on 5/30/2023.

OK Cancel Help

Maintenance Plan Wizard

Select Maintenance Tasks

Which tasks should this plan perform?

Select one or more maintenance tasks:

- ☐ Check Database Integrity
- ☐ Shrink Database
- ☐ Reorganize Index
- ☐ Rebuild Index
- ☐ Update Statistics
- ☐ Clean Up History
- ☐ Execute SQL Server Agent Job
- ☐ Back Up Database (Full)
- ☐ Back Up Database (Differential)
- ☒ Back Up Database (Transaction Log)
- ☐ Maintenance Cleanup Task

The Back Up Database (Transaction Log) task allows you to specify the source databases, destination files or tapes, and overwrite options for a transaction log backup.

Help

< Back

Next >

Finish

Cancel

Maintenance Plan Wizard

Select Maintenance Task Order

In which order should these tasks be performed?

Select the order for the tasks to execute:

Back Up Database (Transaction Log)

Move Up...

Move Down...

The Back Up Database (Transaction Log) task allows you to specify the source databases, destination files or tapes, and overwrite options for a transaction log backup.

Help

< Back

Next >

Finish

Cancel

Maintenance Plan Wizard

Define Back Up Database (Transaction Log) Task

Configure the maintenance task.

General Destination Options

Backup type: Transaction Log

Database(s): <Select one or more>

Backup component

☐ Database

☐ Files and filegroups:

Back up to:

Schedule:

Not scheduled (On Demand)

Help

Warning: Databases with simple recovery will be excluded.

☐ All databases

☐ System databases

☐ All user databases (excluding master, model, msdb, tempdb)

☒ These databases:

- ☒ AP
- ☐ BankDB
- ☐ BhadraData
- ☐ CIT-Identity
- ☐ DBA

☒ Ignore databases where the state is not online

OK Cancel

Maintenance Plan Wizard

Define Back Up Database (Transaction Log) Task

Configure the maintenance task.

General Destination Options

☐ Back up databases across one or more files:

If backup files exist: Append

☒ Create a backup file for every database

☒ Create a sub-directory for each database

Folder: E:\Transactional

SQL credential:

Azure storage container:

URL prefix: https://<storageaccount>.blob.core.windows.net/

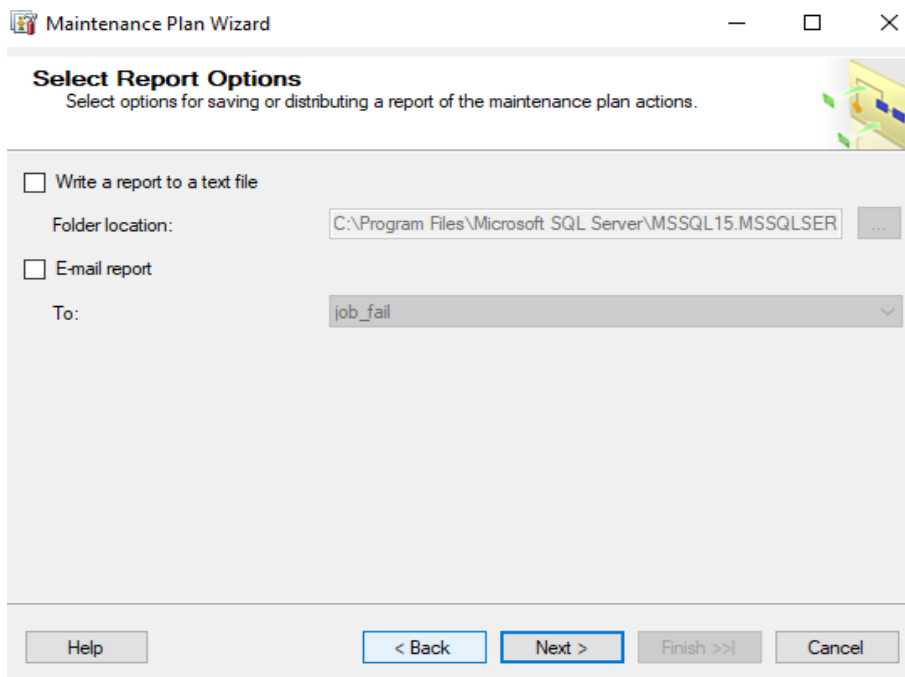
Backup file extension: tm

Schedule:

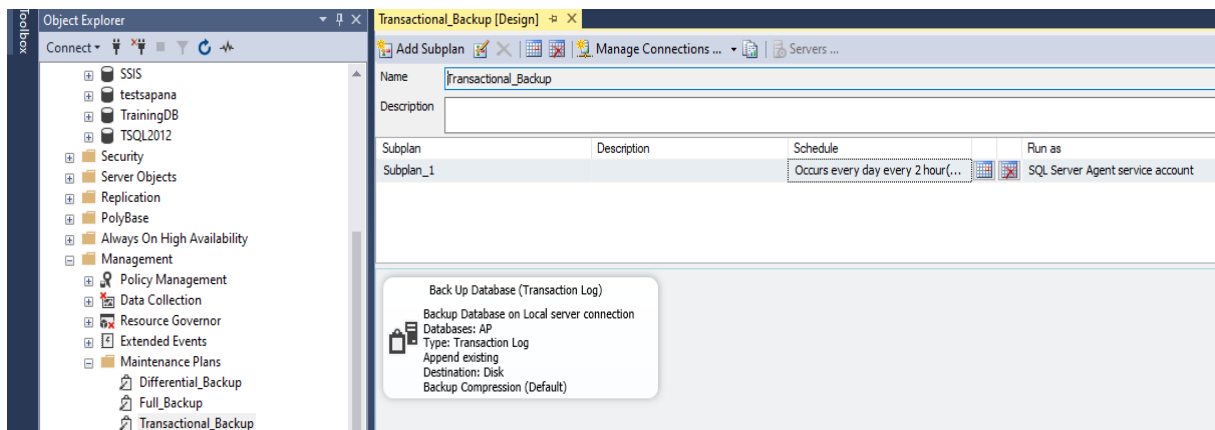
Not scheduled (On Demand)

Help

< Back Next > Finish >> Cancel



Uncheck the report to a text file box and next to continue. Finally, press the Finish button.



System crash on Sunday at 11:00 AM

After a system crash, a backup is not feasible. Backup will not continue from 11:00 AM. Therefore, until the system is restored, there won't be a full, differential, or transactional backup. Once the system has been restored, a backup will be made on the scheduled day and time.