MYSQL

- PB SQL FAILOVER
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- Dump/Restore
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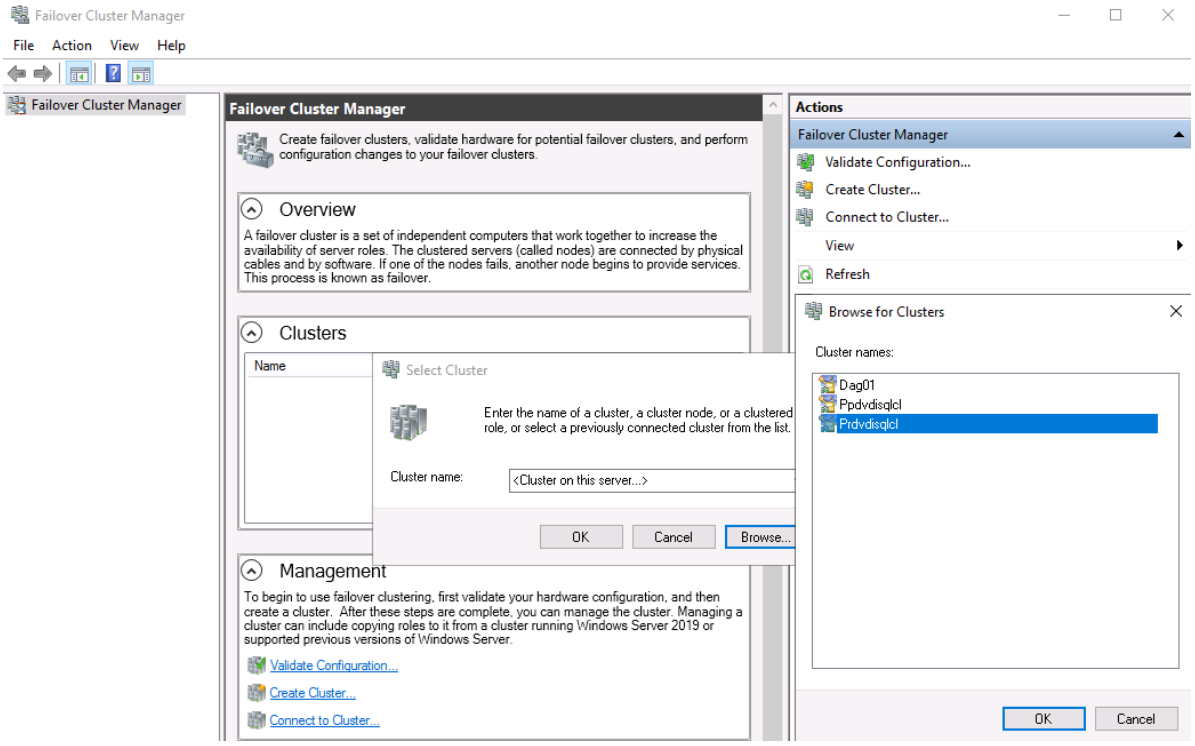
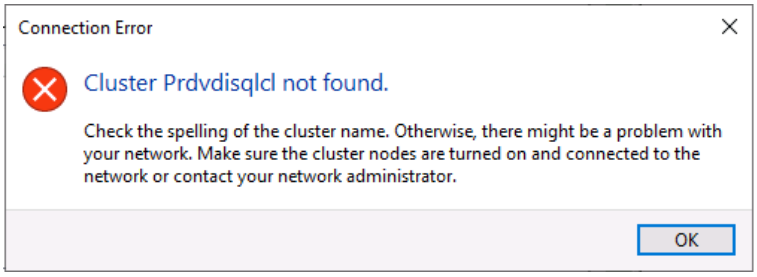
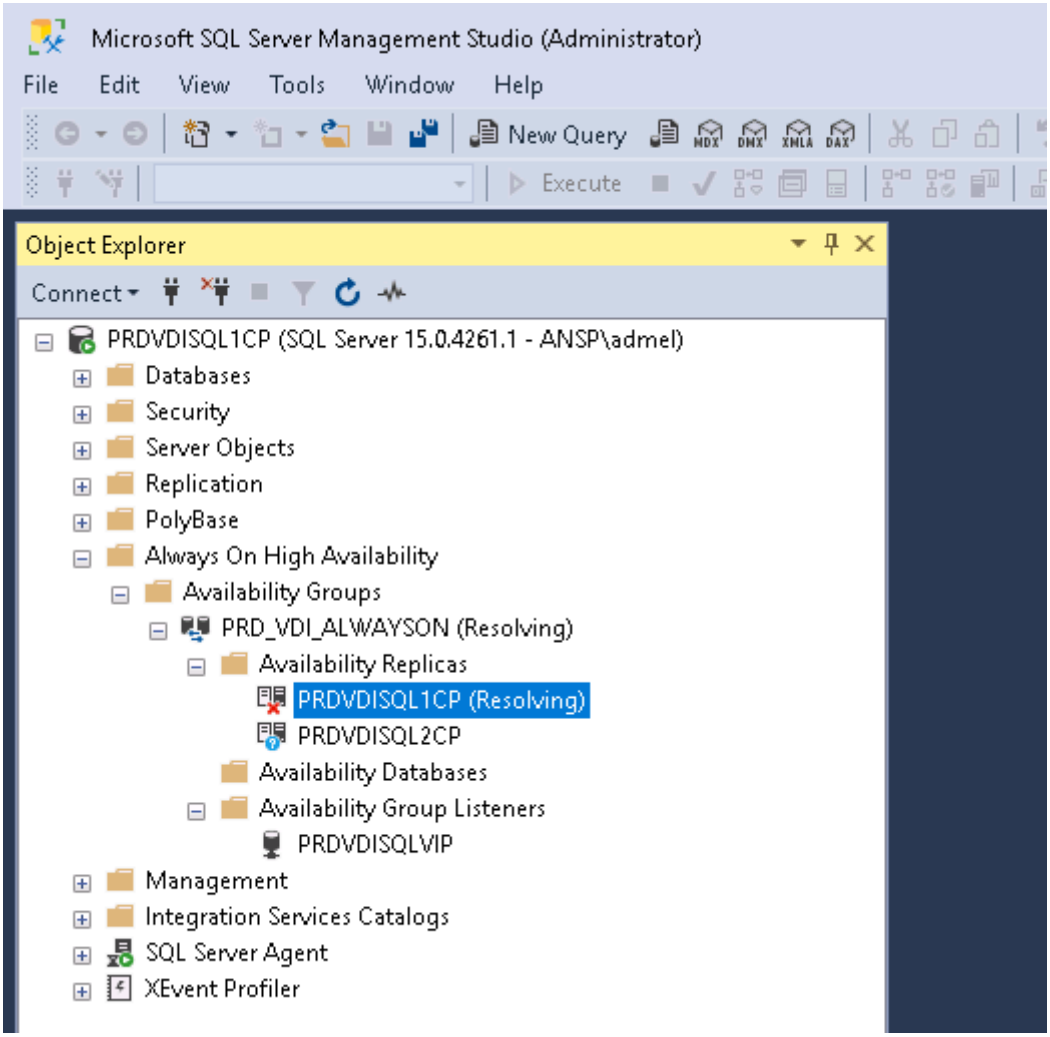
- Modification du compte mysql_monitor

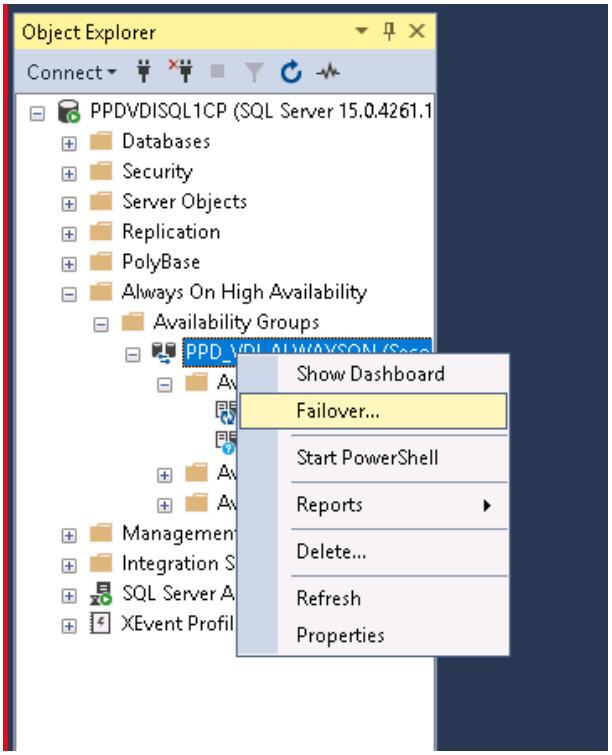
PB SQL FAILOVER



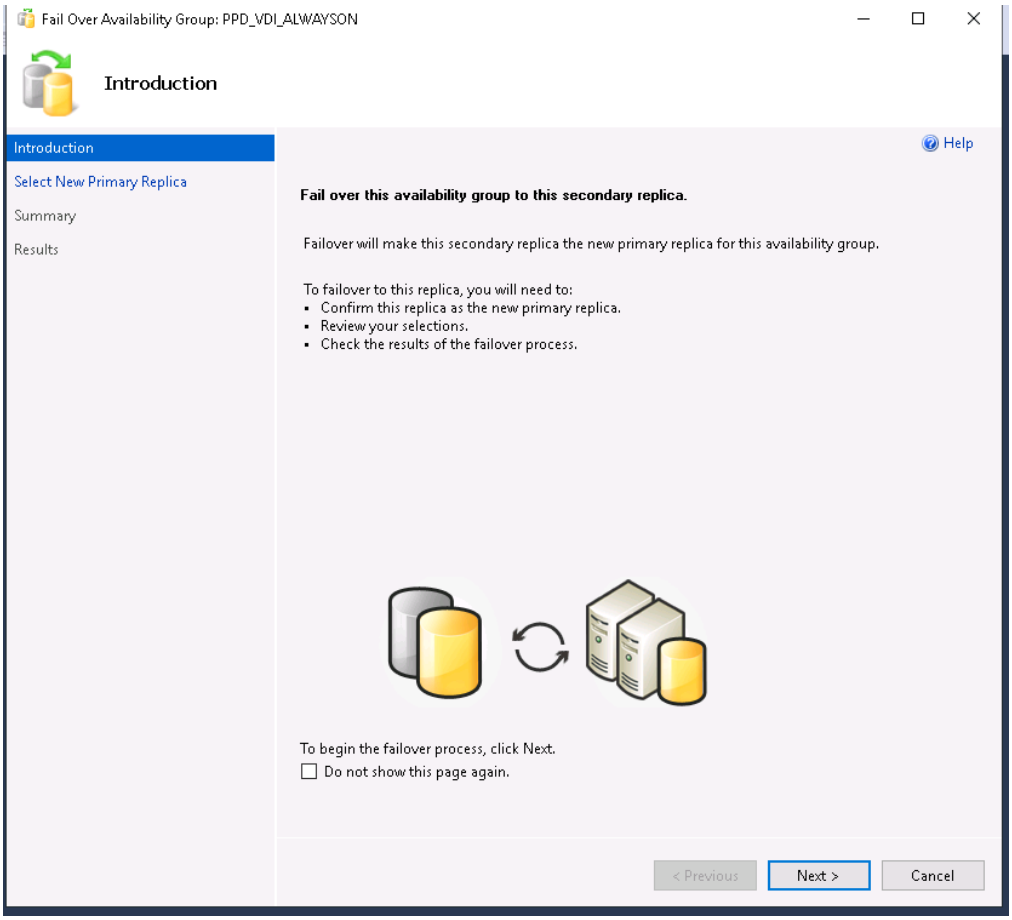




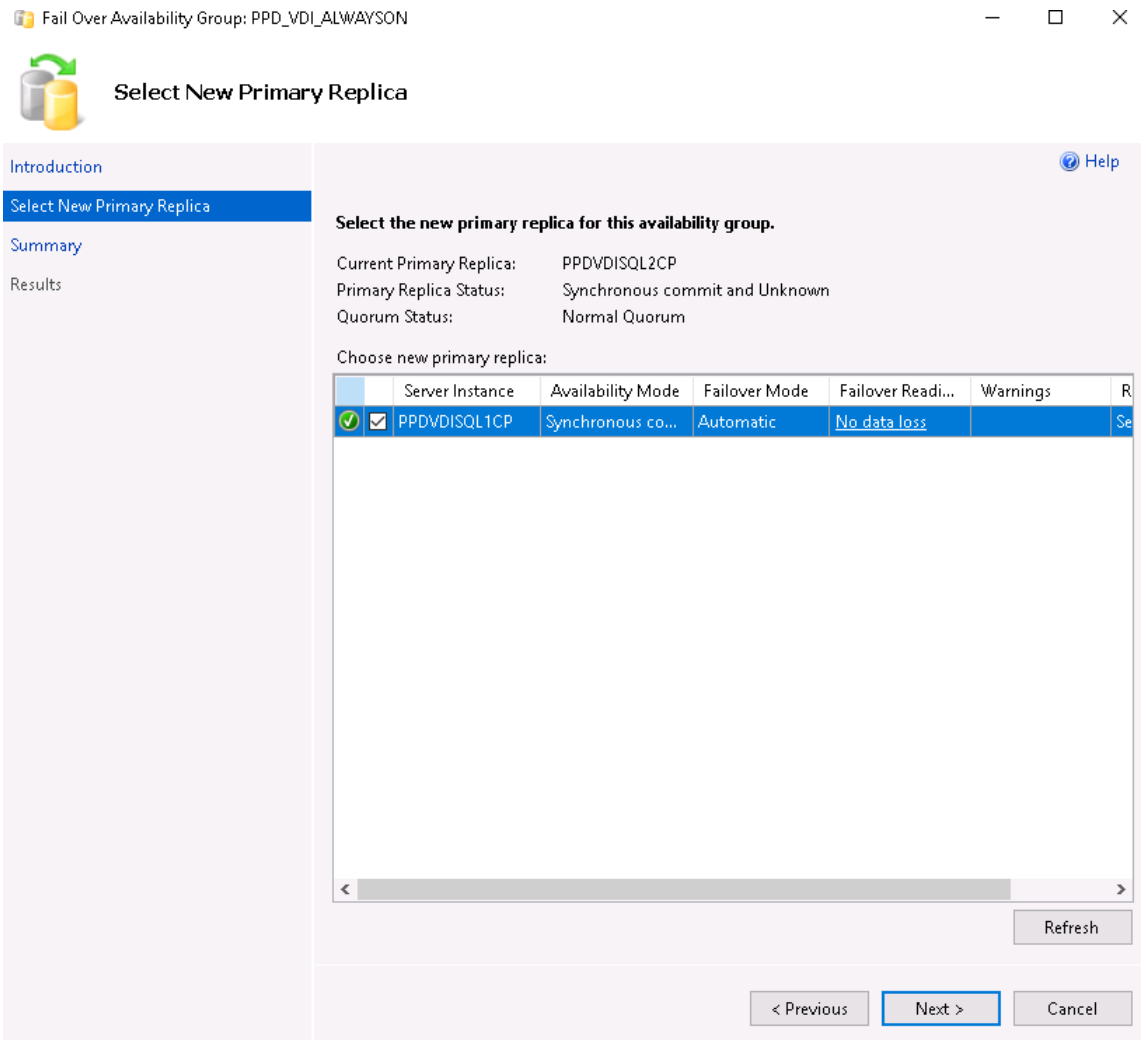
Clic droit --> Failover...



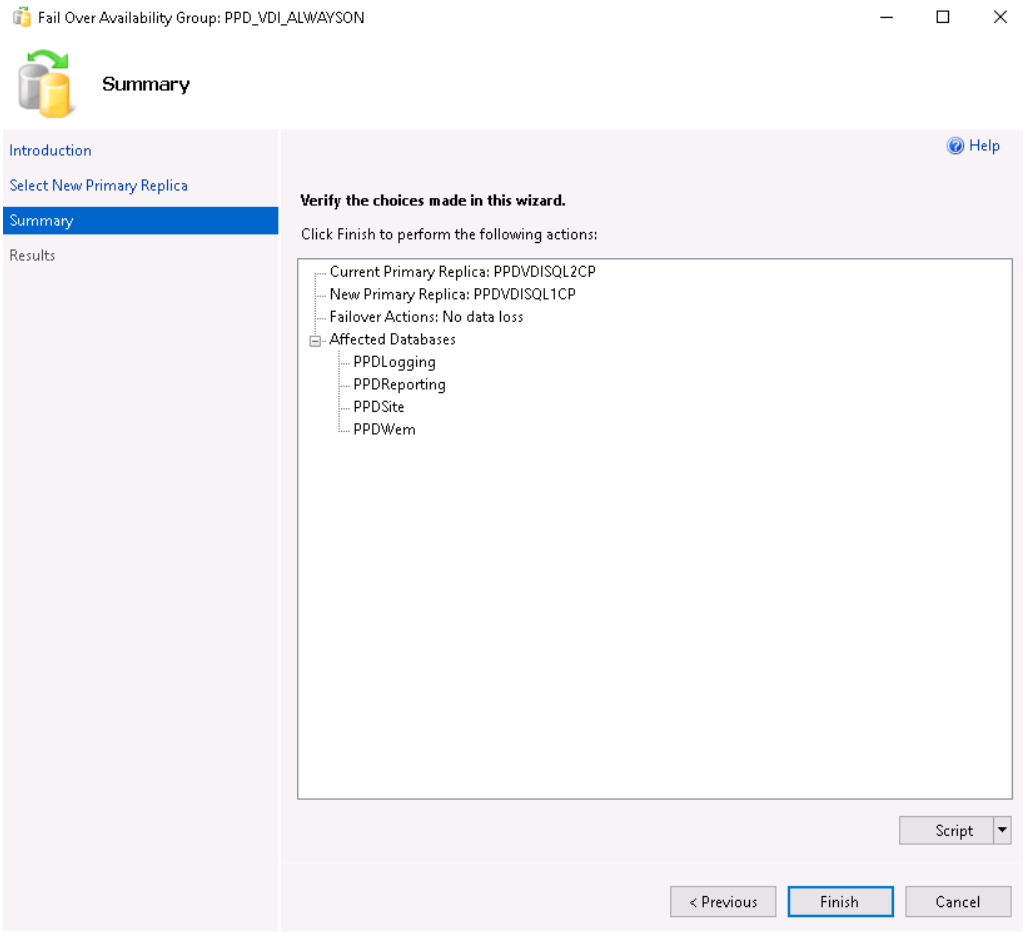
Next

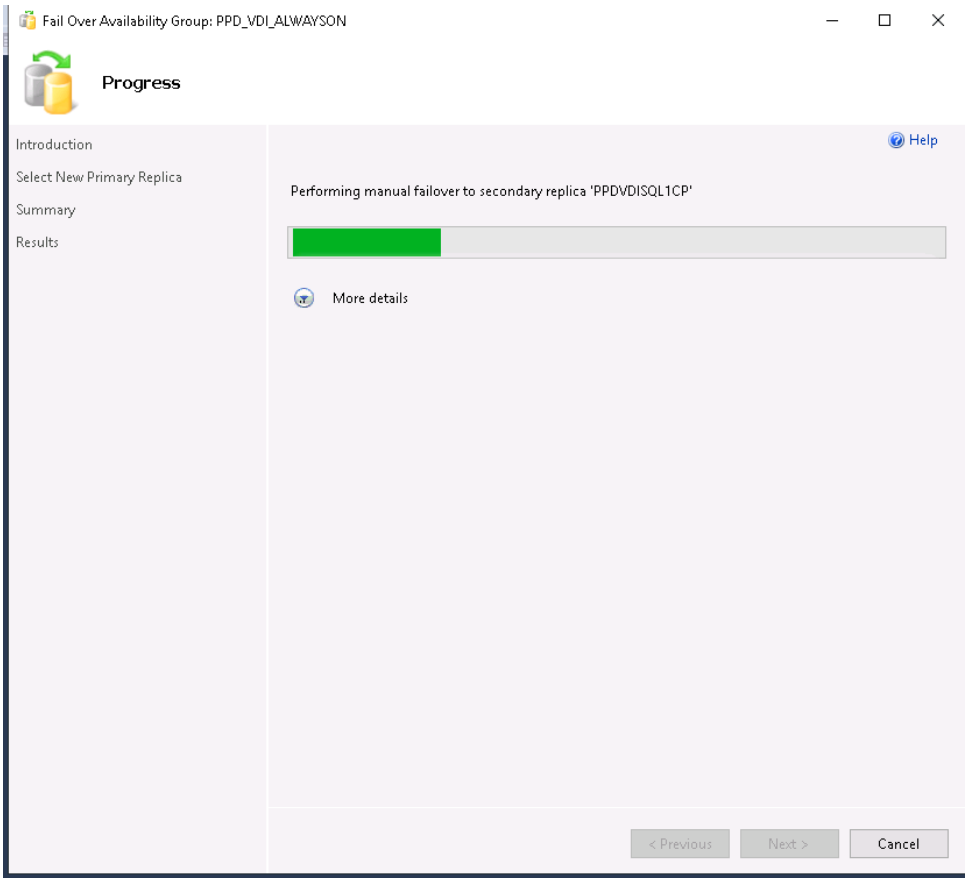

Fail Over Availability Group: PPD_VDI_ALWAYSON
Introduction
Introduction
Select New Primary Replica
Summary
Results
Help
Fail over this availability group to this secondary replica.
Failover will make this secondary replica the new primary replica for this availability group.
To failover to this replica, you will need to:
Confirm this replica as the new primary replica.
Review your selections.
Check the results of the failover process.
To begin the failover process, click Next.
Do not show this page again.
< Previous
Next >
Cancel

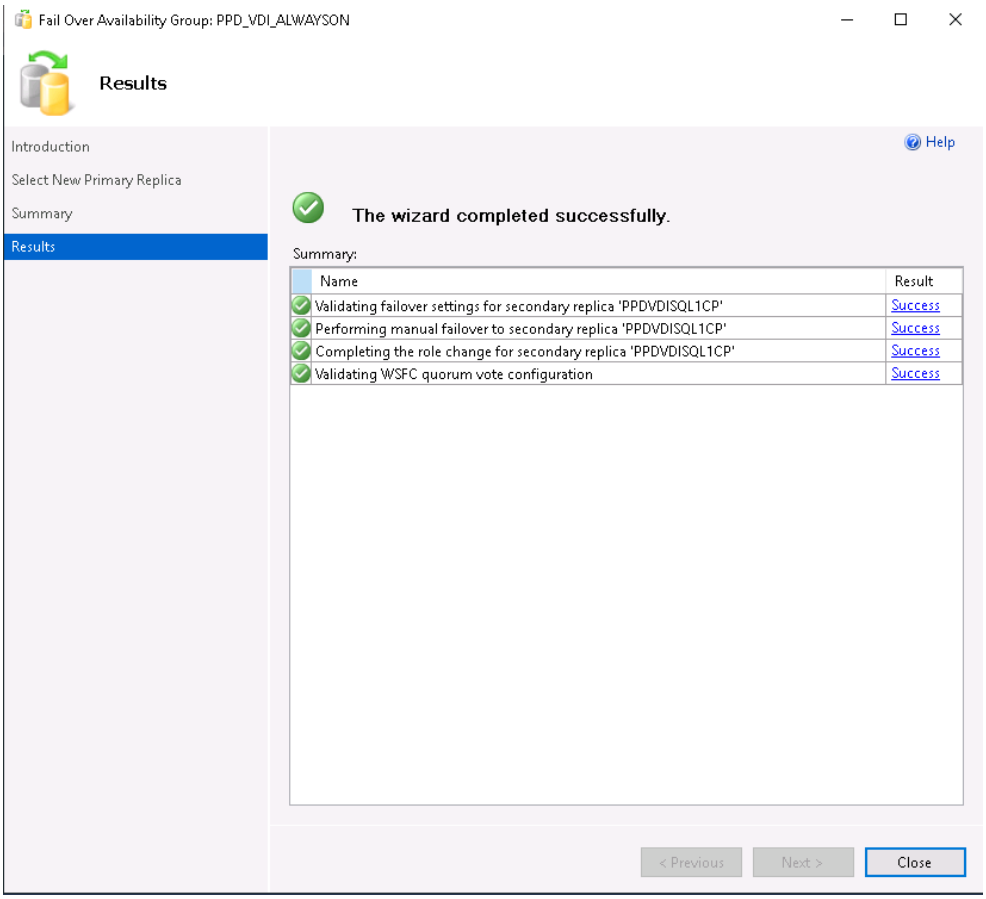
Next


Fail Over Availability Group: PPD_VDI_ALWAYSON
Select New Primary Replica
Introduction
Select New Primary Replica
Summary
Results
Help
Select the new primary replica for this availability group.
Current Primary Replica: PPDVDISQL2CP
Primary Replica Status: Synchronous commit and Unknown
Quorum Status: Normal Quorum
Choose new primary replica:
Server Instance
Availability Mode
Failover Mode
Failover Readi...
Warnings
PPDVDISQL1CP
Synchronous co...
Automatic
No data loss
Refresh
< Previous
Next >
Cancel

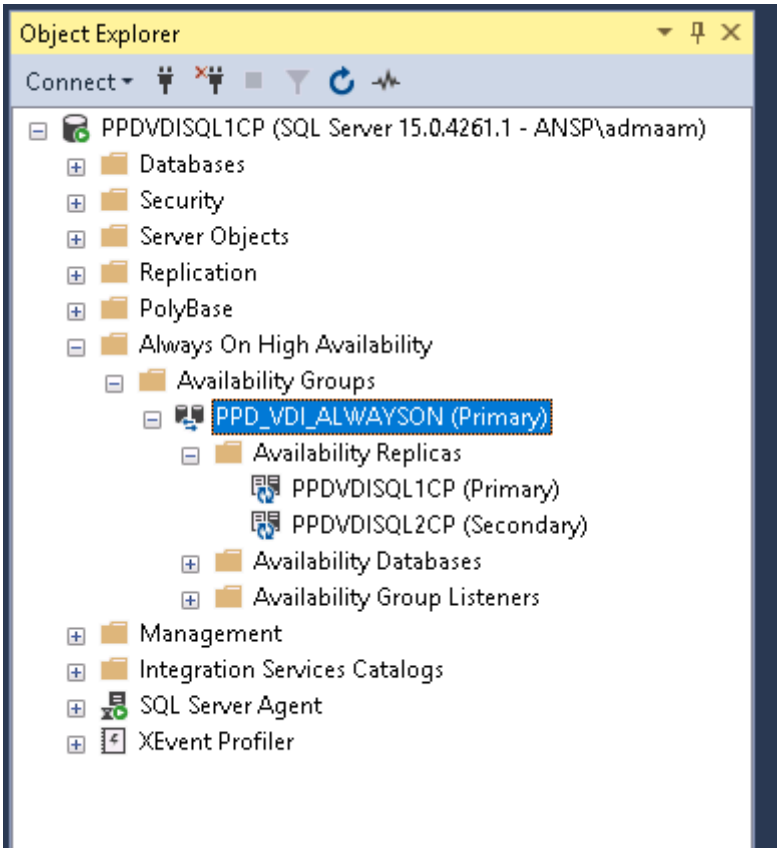
Finish


Fail Over Availability Group: PPD_VDI_ALWAYSON
Summary
Introduction
Select New Primary Replica
Summary
Results
Help
Verify the choices made in this wizard.
Click Finish to perform the following actions:
Current Primary Replica: PPDVDISQL2CP
New Primary Replica: PPDVDISQL1CP
Failover Actions: No data loss
Affected Databases
PPDLogging
PPDReporting
PPDSite
PPDWem
Script
< Previous
Finish
Cancel


Fail Over Availability Group: PPD_VDI_ALWAYSON
Progress
Introduction
Select New Primary Replica
Summary
Results
Help
Performing manual failover to secondary replica 'PPDVDISQL1CP'
More details
< Previous
Next >
Cancel



Vérifier que le 1 est bien passé en Primary ainsi que le 2 en Secondary



Commandes General

Poids base de doonnées

```
SELECT sum( data_length + index_length) / 1024 / 1024 "Nom-de-la-base Taille en Mo" FROM
information_schema.TABLES WHERE table_schema = "nom-de-base" GROUP BY table_schema;
```

Read permission

```
GRANTSELECTON DBNAME.TABLE_NAME TO USERNAME
```

liste toutes les BDD

```
show databases;
```

se met sur la BDD qui nous intéresse

```
Use nomdelabdd;
```

Suppression de la BDD

```
Drop database nomdelabdd;
```

Création de la BDD

```
Create database nomdelabdd;
```

Dans le cas où le compte mysqldump n'a pas les droits de restauration de dump

```
grant all privileges on *.* to mysqldump@localhost;
```

Restauration du dump dans la BDD

```
mysql -u mysqldump -p "nomdelabdd" < "/production/mysql_dump/nomdelabdd.sql"
```

Vérification de la bonne restauration du dump

```
ls -alsh /production/mysql/nomdelabdd/
```

Pour se connecter

```
mysql
```

Pour avoir la taille de toutes les BDD:

```
SELECT table_schema AS "Database",  ROUND(SUM(data_length + index_length) / 1024 / 1024, 2) AS "Size (MB)"  FROM information_schema.TABLES  GROUP BY table_schema;
```

Pour avoir la taille de toutes les tables d'une BDD:

```
SELECT table_name AS "Table", ROUND(((data_length + index_length) / 1024 / 1024), 2) AS "Size (MB)" FROM information_schema.TABLES WHERE table_schema = "database_name" ORDER BY (data_length + index_length) DESC;
```

Reset Mot de passe Mysql:

```
ALTER USER 'mysqldump'@'localhost' IDENTIFIED BY 'dump';
```

Dump/Restore

Création de dump Mysql:

```
/usr/bin/mysqldump -u mysqldump -p name | gzip -c --best > /production/mysql_dump/Save_25.sql.gz
```

Dezip d'un dump au format sql.gz :

```
gunzip /production/mysql_dump/Save_25.sql.gz /tmp
```

> Attention cela remplace le fichier d'origine en .sql

Affichage de tous les droits sur une BDD:

```
Use name;
SELECT host,user,password,Grant_priv,Super_priv FROM mysql.user;
```

Restauration d'un dump Mysql avec le dump au format .sql :

show databases; --> liste toutes les BDD
Use nomdelabdd; --> On se met sur la BDD qui nous intéresse
Drop database nomdelabdd; --> Suppression de la BDD actuelle
Create database nomdelabdd; --> Création de la BDD
grant all privileges on *.* to mysqldump@localhost; --> Dans le cas où le compte mysqldump n'a pas les droits de restauration de dump
mysql -u mysqldump -p nomdelabdd < /production/mysql_dump/nomdelabdd.sql --> Restauration du dump dans la BDD nouvellement créée
ls -alsh /production/mysql/nomdelabdd/ --> Vérification de la bonne restauration du dump, voir s'il y a des éléments récents

Pour info, utiliser la commande pv lors de la restauration d'un dump afin de voir en live ce que fait la restauration:

Mysql innodb cache info

Vérifier taille Buffer Pool Size:

mysql

SELECT FORMAT (BufferPoolPages*PageSize/POWER(1024,3),2) BufferPoolDataGB FROM (SELECT variable_value BufferPoolPages FROM information_schema.global_status WHERE variable_name ='Innodb_buffer_pool_pages_total') A, (SELECT variable_value PageSize FROM information_schema.global_status WHERE variable_name ='Innodb_page_size') B;

```
[(none)] mysql> SELECT FORMAT(BufferPoolPages*PageSize/POWER(1024,3),2) BufferPoolDataGB FROM
    -> (SELECT variable_value BufferPoolPages FROM information_schema.global_status
    -> WHERE variable_name = 'Innodb_buffer_pool_pages_total') A,
    -> (SELECT variable_value PageSize FROM information_schema.global_status
    -> WHERE variable_name = 'Innodb_page_size') B;
+------------------+
| BufferPoolDataGB |
+------------------+
| 0.25             |
+------------------+
1 row in set (0.003 sec)
```

Vérifier données en cache:

Mysql

SELECT FORMAT (BufferPoolPages*PageSize/POWER(1024,3),2) BufferPoolDataGB FROM (SELECT variable_value BufferPoolPages FROM information_schema.global_status WHERE variable_name ='Innodb_buffer_pool_pages_data') A, (SELECT variable_value PageSize FROM information_schema.global_status WHERE variable_name ='Innodb_page_size') B;

```
[(none)] mysql> SELECT FORMAT(BufferPoolPages*PageSize/POWER(1024,3),2) BufferPoolDataGB FROM
    -> (SELECT variable_value BufferPoolPages FROM information_schema.global_status
    -> WHERE variable_name = 'Innodb_buffer_pool_pages_data') A,
    -> (SELECT variable_value PageSize FROM information_schema.global_status
    -> WHERE variable_name = 'Innodb_page_size') B;
+------------------+
| BufferPoolDataGB |
+------------------+
| 0.10             |
+------------------+
1 row in set (0.003 sec)
```

Vérifier % d'utilisation en cache:

```
SELECT CONCAT (FORMAT (DataPages*100.0/TotalPages,2),' %') BufferPoolDataPercentage FROM (SELECT variable_value DataPages FROM information_schema.global_status WHERE variable_name ='Innodb_buffer_pool_pages_data') A, (SELECT variable_value TotalPages FROM information_schema.global_status WHERE variable_name ='Innodb_buffer_pool_pages_total') B;
```

```
[(none)] mysql> SELECT CONCAT(FORMAT(DataPages*100.0/TotalPages,2),' %') BufferPoolDataPercentage FROM
    -> (SELECT variable_value DataPages FROM information_schema.global_status
    -> WHERE variable_name = 'Innodb_buffer_pool_pages_data') A,
    -> (SELECT variable_value TotalPages FROM information_schema.global_status
    -> WHERE variable_name = 'Innodb_buffer_pool_pages_total') B;
+--------------------------+
| BufferPoolDataPercentage |
+--------------------------+
| 40.72 %                  |
+--------------------------+
1 row in set (0.003 sec)
```

Données supplémentaires sur le cache:

```
SHOW GLOBAL STATUS LIKE 'Innodb_buffer_pool%';
```

```
[(none)] mysql> SHOW GLOBAL STATUS LIKE 'Innodb_buffer_pool%';
+---------------------------------------+-----------------------------------------------------+
| Variable_name                         | Value                                               |
+---------------------------------------+-----------------------------------------------------+
| Innodb_buffer_pool_dump_status        |                                                     |
| Innodb_buffer_pool_load_status        | Buffer pool(s) load completed at 220905 17:35:17    |
| Innodb_buffer_pool_resize_status      |                                                     |
| Innodb_buffer_pool_load_incomplete    | OFF                                                 |
| Innodb_buffer_pool_pages_data         | 6671                                                |
| Innodb_buffer_pool_bytes_data         | 109297664                                           |
| Innodb_buffer_pool_pages_dirty        | 0                                                   |
| Innodb_buffer_pool_bytes_dirty        | 0                                                   |
| Innodb_buffer_pool_pages_flushed      | 131                                                 |
| Innodb_buffer_pool_pages_free         | 9699                                                |
| Innodb_buffer_pool_pages_misc         | 14                                                  |
| Innodb_buffer_pool_pages_total        | 16384                                               |
| Innodb_buffer_pool_read_ahead_rnd     | 0                                                   |
| Innodb_buffer_pool_read_ahead         | 0                                                   |
| Innodb_buffer_pool_read_ahead_evicted | 0                                                   |
| Innodb_buffer_pool_read_requests      | 25646                                               |
| Innodb_buffer_pool_reads              | 6541                                                |
| Innodb_buffer_pool_wait_free          | 0                                                   |
| Innodb_buffer_pool_write_requests     | 843                                                 |
+---------------------------------------+-----------------------------------------------------+
19 rows in set (0.001 sec)
```

Statut Innodb:

```
SHOW ENGINE INNODB STATUS;
```

Buffer hit ratio:

SELECT round ((P2.variable_value /P1.variable_value),4), P2.variable_value, P1.variable_value FROM information_schema.GLOBAL_STATUS P1, information_schema.GLOBAL_STATUS P2 WHERE P1. variable_name ='innodb_buffer_pool_read_requests'ANDP2. variable_name ='innodb_buffer_pool_reads';

```
[(none)] mysql> SELECT round ((P2.variable_value / P1.variable_value),4),
    -> P2.variable_value, P1.variable_value
    -> FROM information_schema.GLOBAL_STATUS P1,
    -> information_schema.GLOBAL_STATUS P2
    -> WHERE P1. variable_name = 'innodb_buffer_pool_read_requests'
    -> AND P2. variable_name = 'innodb_buffer_pool_reads';
+-----------------------------------------------------+----------------+----------------+
| round ((P2.variable_value / P1.variable_value),4) | variable_value | variable_value |
+-----------------------------------------------------+----------------+----------------+
|                                              0.2550 | 6541           | 25646          |
+-----------------------------------------------------+----------------+----------------+
1 row in set (0.003 sec)
```

Modification du compte mysql_monitor

```
mysql
```

```
SHOW DATABASES;
```

```
select user, host from mysql.users;
```

```
UPDATE user SET password=PASSWORD('PASSWORD') WHERE user='mysql_monitor';
```

> si la commande ci-dessous ne fonctionne pas

```
ALTER USER 'mysql_monitor' IDENTIFIED BY '************';
```

```
FLUSH PRIVILEGES;
```