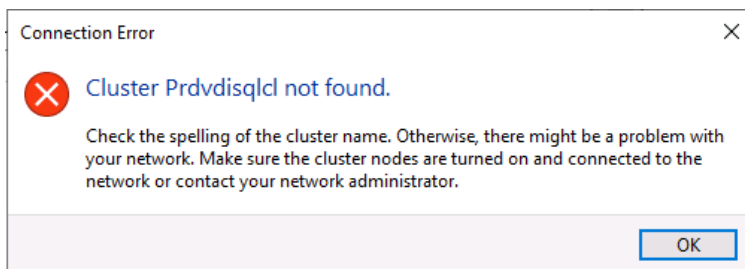
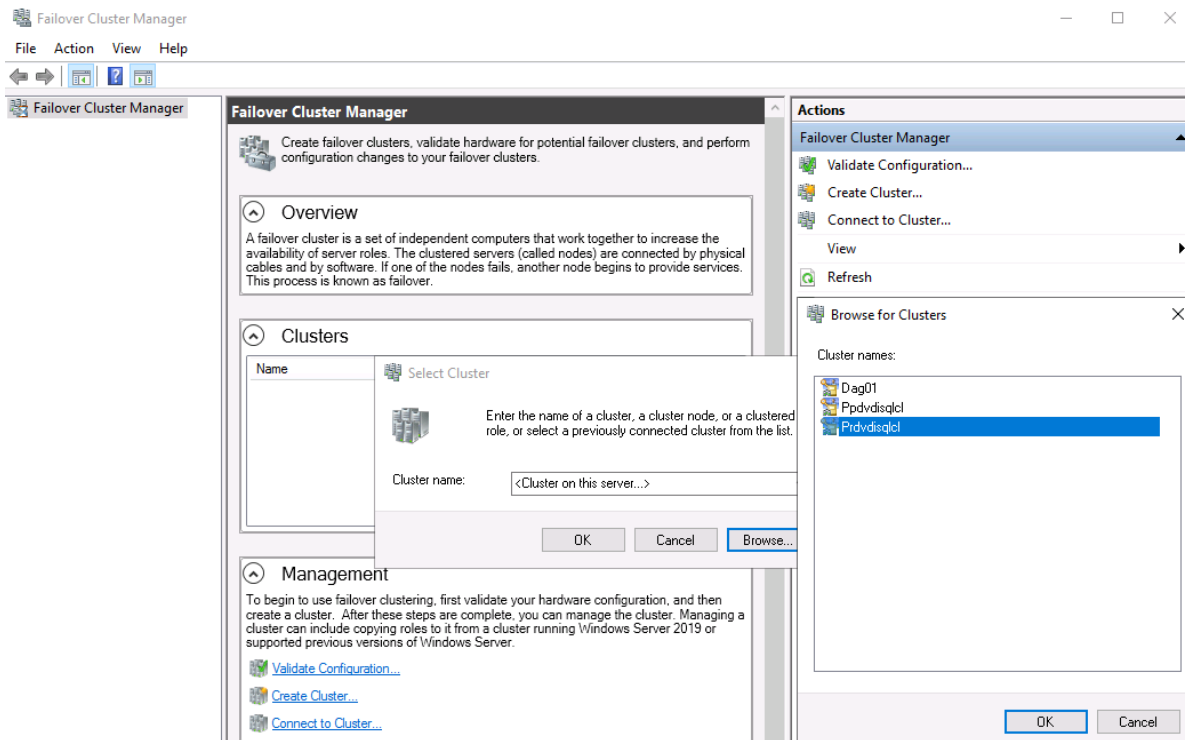
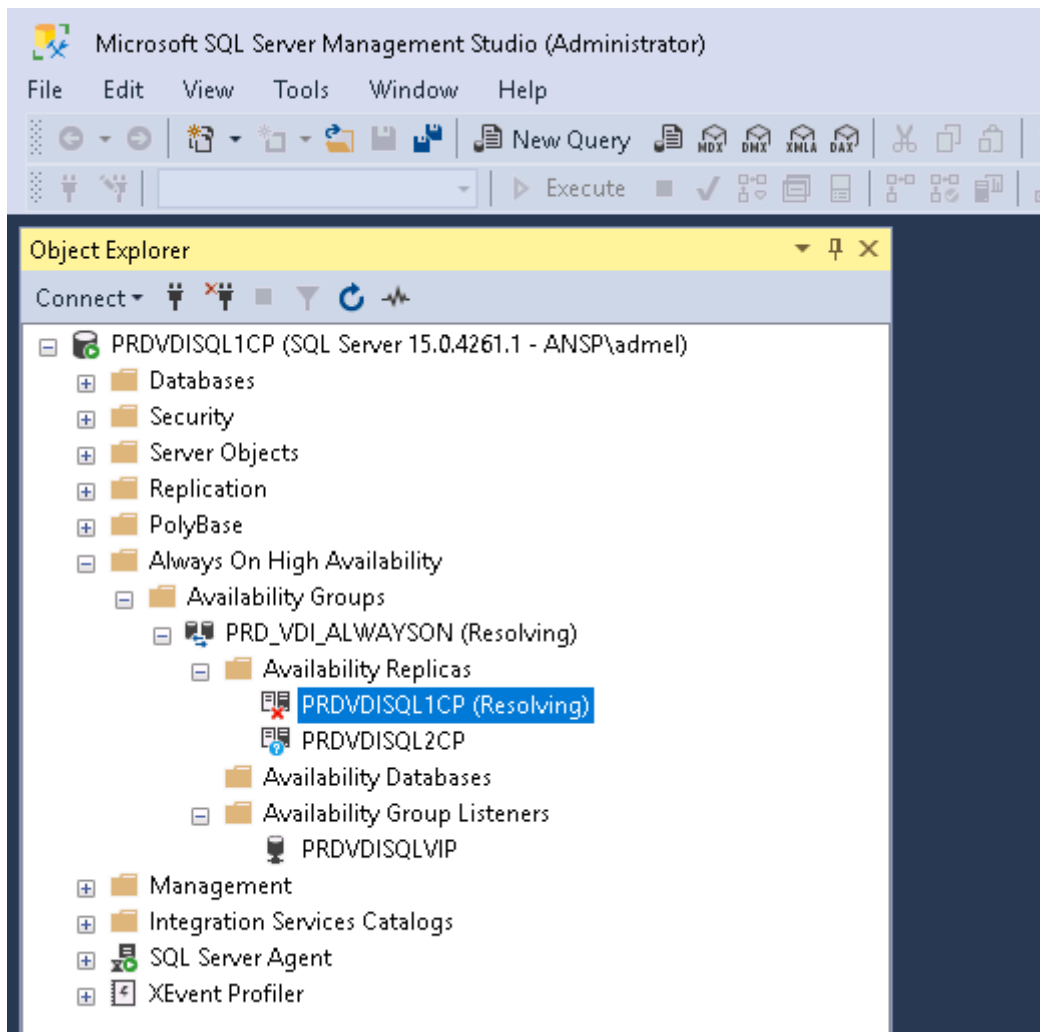


# MYSQL

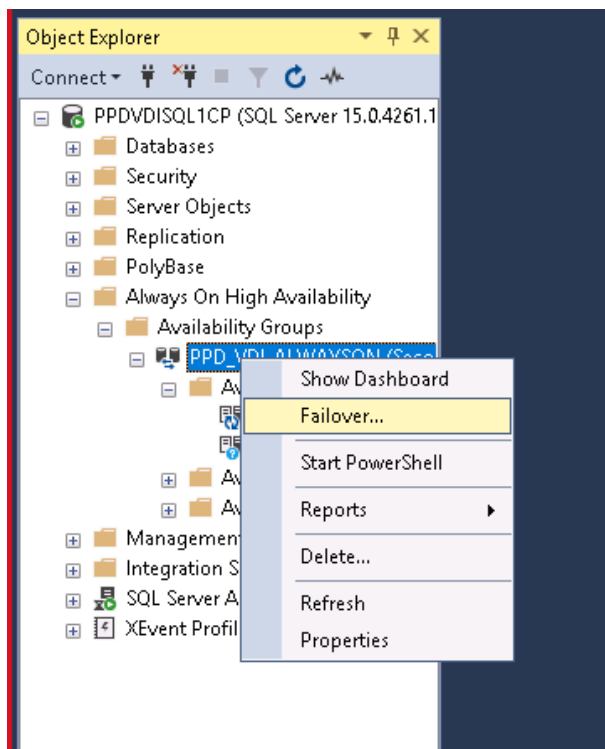
- PB SQL FAILOVER
- Commandes General
- Dump/Restore
- Mysql innodb cache info
- Modification du compte mysql\_monitor

# PB SQL FAILOVER

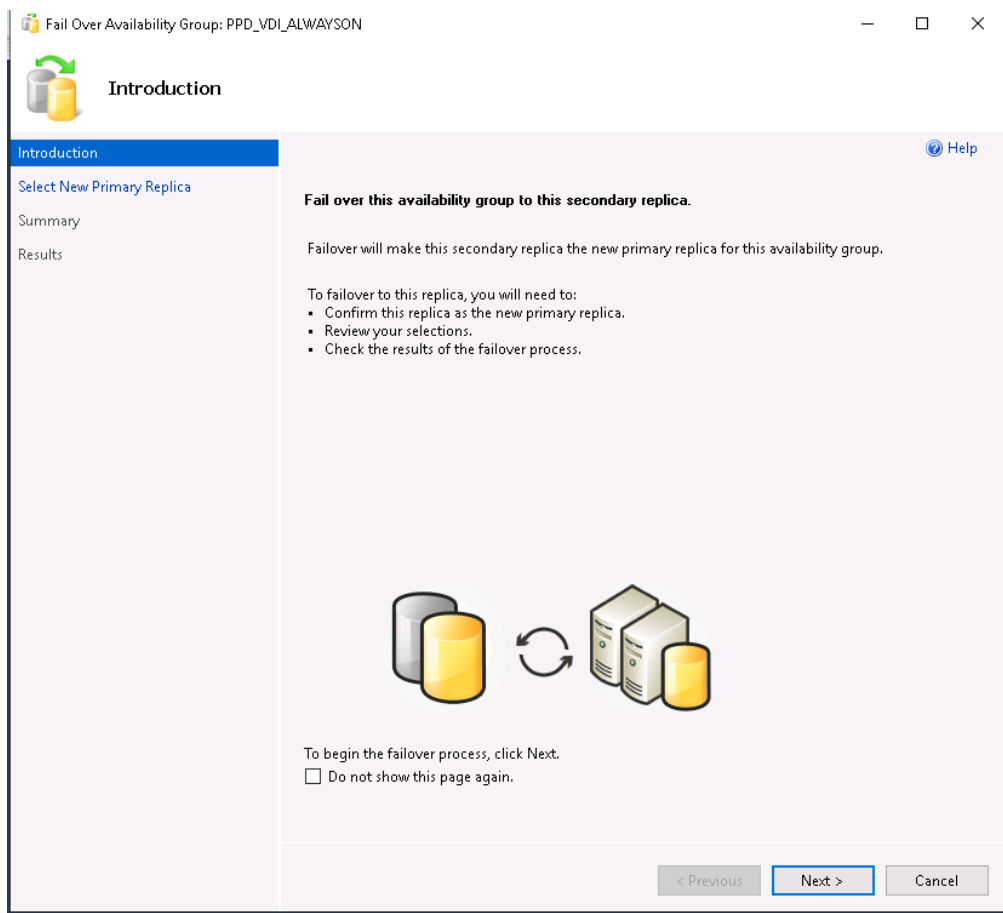




Clic droit --> Failover...



Next



Next



Select New Primary Replica

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Select New Primary Replica

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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 Read...	Warnings	R
<input checked="" type="checkbox"/>	PPDVDISQL1CP	Synchronous co...	Automatic	No data loss		Se

Refresh

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Cancel

Finish



## Summary

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[Select New Primary Replica](#)

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### 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 ▼

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**Finish**

Cancel



## Progress

[Introduction](#)

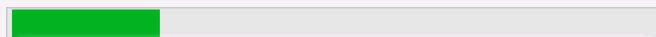
[Select New Primary Replica](#)

[Summary](#)

**Results**

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Performing manual failover to secondary replica 'PPDVDISQL1CP'

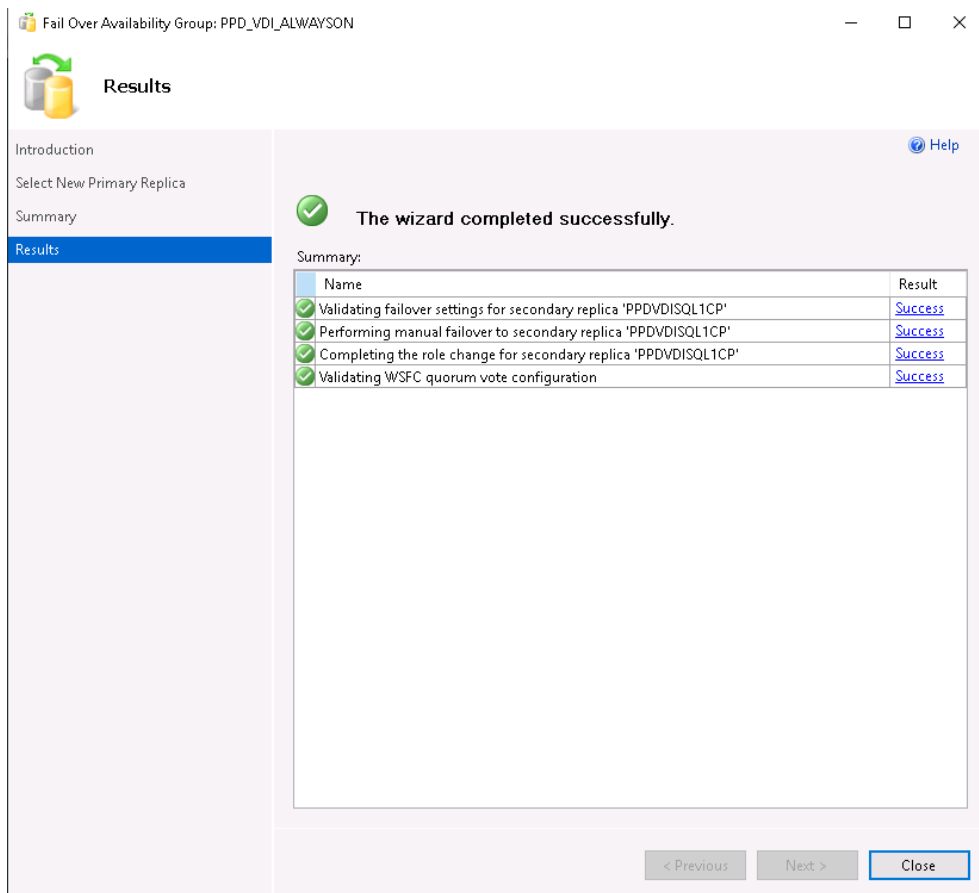


[More details](#)

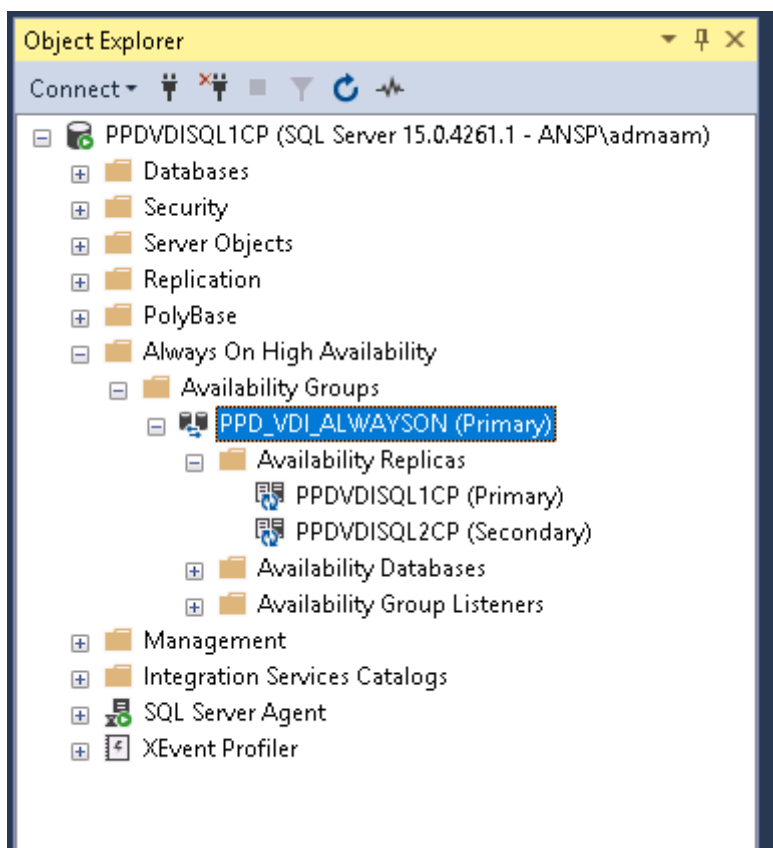
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Cancel



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



# Commandes General

## Poids base de données

```
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

```
GRANT SELECT ON 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;
```