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how to perform master and slave replication on centos 6?
requirements:
1.virtual box
2.operating system base os
3.internet or mysql-server and mysql package
procedure:
1.create 2 virtual machines (one for master db and slave db)
2.install both vms with centos
3.configure networking
>>>>>change hostnames in /etc/sysconfig/network
>>>>>both vms should have different ips bridged or natted.
Working Linux OS like CentOS 6.3, RedHat 6.3 or Fedora 17
Master and Slave are CentOS 6.3 Linux Servers.
Master IP Address is: 192.168.56.116
Slave IP Address is: 192.168.56.115
Master and Slave are on the same LAN network.
Master and Slave has MySQL version installed.
Master allow remote MySQL connections on port 3306
We have two servers, one is Master with IP (192.168.56.116) and other is Slave as (192.168.56.115).
Let's start the replication setup process
Configure Master Server (192.168.56.116) for replication:
1.yum install mysql-server mysql
2.vi /etc/my.cnf
>>>>>>>Add the following entries under [mysqld] section and don't forget to replace
tecmint with database name that you would like to replicate on Slave.
server-id = 1
binlog-do-db=tecmint
                                ---->(combined database name)
relay-log = /var/lib/mysql/mysql-relay-bin
relay-log-index = /var/lib/mysql/mysql-relay-bin.index
log-error = /var/lib/mysql/mysql.err
master-info-file = /var/lib/mysql/mysql-master.info
relay-log-info-file = /var/lib/mysql/mysql-relay-log.info
log-bin = /var/lib/mysql/mysql-bin
3./etc/init.d/mysqld restart
4.mysql -u root -p
5.mysql> GRANT REPLICATION SLAVE ON *.* TO 'slave_user'@'%' IDENTIFIED BY 'your_password';
6.mysql> FLUSH PRIVILEGES;
7.mysql> FLUSH TABLES WITH READ LOCK;
8.mysql> SHOW MASTER STATUS;
9.quit;
10.mysqldump -u root -p --all-databases --master-data > /root/dbdump.db
------> taking dump of database to /root note down (mysql-bin.000003) and Position (11128001)
numbers.
11.mysql -u root -p
12.mysql> UNLOCK TABLES;
13.mysql> quit;
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14.scp /root/dbdump.db root@192.168.1.2:/root/
                                                ----> Upload the database dump file on Slave
Server (192.168.56.115) using SCP command.
Configure Slave Server (192.168.56.115) for replication:
1.yum install mysql-server mysql
2.vi /etc/my.cnf
----->Add the following entries under [mysqld] section and don't forget to replace IP
address of Master server, tecmint with database name etc, that you would like to replicate with Master.
server-id = 2
master-host=192.168.1.1
master-connect-retry=60
master-user=slave user
master-password=lsnworks -----> your password
replicate-do-db=tecmint
relay-log = /var/lib/mysql/mysql-relay-bin
relay-log-index = /var/lib/mysql/mysql-relay-bin.index
log-error = /var/lib/mysql/mysql.err
master-info-file = /var/lib/mysql/mysql-master.info
relay-log-info-file = /var/lib/mysql/mysql-relay-log.info
log-bin = /var/lib/mysql/mysql-bin
3. mysql -u root -p < /root/dbdump.db</pre>
/etc/init.d/mysqld restart
5.mysql -u root -p
6.mysql> slave stop;
7.mysql> CHANGE MASTER TO MASTER HOST='192.168.1.1', MASTER USER='slave user'
MASTER_PASSWORD='yourpassword', MASTER_LOG_FILE='mysql-bin.000003', MASTER_LOG_POS=11128001;
-----> enter master mysql-bin.000003 and master position.
8.mysql> slave start;
9.mysql> show slave status\G;
sample output
Slave_IO_State: Waiting for master to send event
                 Master_Host: 192.168.1.1
                 Master_User: slave_user
                 Master Port: 3306
               Connect_Retry: 60
             Master_Log_File: mysql-bin.000003
         Read_Master_Log_Pos: 12345100
              Relay_Log_File: mysql-relay-bin.000002
Relay_Log_Pos: 11381900
       Relay_Master_Log_File: mysql-bin.000003
             Slave_IO_Running: Yes
           Slave SQL Running: Yes
             Replicate_Do_DB: tecmint
         Replicate_Ignore_DB:
          Replicate_Do_Table:
     Replicate_Ignore_Table: Replicate_Wild_Do_Table:
 Replicate_Wild_Ignore_Table:
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Last_Errno: 0
                    Last_Error:
                  Skip Counter: 0
          Exec_Master_Log_Pos: 12345100
               Relay_Log_Space: 11382055
               Until Condition: None
                Until_Log_File:
                 Until_Log_Pos: 0
           Master_SSL_Allowed: No
Master_SSL_CA_File:
Master_SSL_CA_Path:
               Master_SSL_Cert:
            Master SSL Cipher:
                Master SSL Key:
        Seconds_Behind_Master: 0
Master_SSL_Verify_Server_Cert: No
               Last_IO_Errno: 0
Last_IO_Error:
Last_SQL_Errno: 0
Last_SQL_Error:
1 row in set (0.00 sec)
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Verifying MySQL Replication on Master and Slave Server
ON MASTER:
mysql> create database tecmint;
mysql> use tecmint;
mysql> CREATE TABLE employee (c int);
mysql> INSERT INTO employee (c) VALUES (1);
mysql> SELECT * FROM employee;
sample output:
+----+
| c |
+----+
| 1 |
+----+
1 row in set (0.00 sec)
ON SLAVE:
mysql> use tecmint;
mysql> SELECT * FROM employee;
sample output:
+----+
| c |
 ----+
 1 |
 ----+
1 row in set (0.00 sec)
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