

IP Address change for Active Active Appliances without CMI

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Overview

This document outlines the procedures for changing the IP address on PINsafe Servers using Active Active appliances without the CMI. Under no circumstances should these instructions be used where the CMI is present. In some instances it may be possible to add the CMI to the PINsafe appliance.

Prerequisites

Have read and followed the information in [IP Address change for PINsafe servers How to Guide](#)

IP address change for MySQL appliances without CMI

On each PINsafe Primary Master, Secondary Master and all Slaves carry out the following steps:

Login to webmin

Stop the Monitor Process

Select Servers/PINsafe

Stop Monitor

(Not required on Slave)

Stop the Heartbeat Process

Select Servers/PINsafe

Stop Heartbeat

(Not required on Slave)

Output from `/etc/init.d/heartbeat stop ..`

Stopping High-Availability services:

[OK]

Stop the Tomcat Process

Select Servers/PINsafe

Stop Tomcat

Output from /etc/init.d/tomcat5 stop ..

Stopping Tomcat: [OK]

waiting for processes to exit

waiting for processes to exit

waiting for processes to exit

[OK]

Change IP addresses

On the Primary and Secondary Master Change the IP address of connecting Slaves. On the slave enter the IP address of the master-host. If changing the Cross over address, the new Cross over replication IP address.

Login as the root user [default is username: root, password: lockbox]

Select Servers/MySQL Database Server

From the Global Options Menu select User Permissions

Select ?replication? for the IP address to be changed and edit the IP address

Change the IP address of any slave servers connecting to the master

If editing a slave server enter the master MySQL IP address

master-host = 192.168.0.36

Note: If changing the IP address of the cross over cable or connecting to a remote master then the master-host IP address will need to be changed on each server to point to the other Master server.

Stop MySQL Server

Select Servers/MySQL Database Server

Stop MySQL Server

The Webmin will now display

MySQL is not running on your system - database list could not be retrieved.

Change Network Information

Select Networking/Network Configuration

Network Interfaces

Enter Network Information changes and save for Boot time and Active Interfaces. Reconnect on new IP address if required, and login.

Change the Monitor Process Configuration

Select System/MON Service Monitor

Host Groups

Change Member Hosts to reflect IP addresses used

Change Management IP Address Range Configuration

Select Servers/PINsafe

Edit PINsafe ranges.xml File

Change any modified ranges to access PINsafe Management Console

Change the ChangePIN Configuration

Select Servers/PINsafe

Edit ChangePIN Config File

Change the ChangePIN IP to reflect the Virtual IP to be used

<entry key="imageserver">192.168.0.38</entry>

Change the MySQL Process Configuration

(/etc/my.cnf)

Select Servers/PINsafe

Edit my.cnf config (mysql)

If changing heartbeat address edit IP

If editing a slave server enter the master MySQL IP address

master-host = 192.168.0.36

Note: The changes made to my.cnf file are not applied until the /var/lib/mysql files are removed (see this step below)

Change the Heartbeat haresources Process Configuration

Select Servers/PINsafe

Edit Heartbeat haresources File

Change the IP address to the Virtual IP address and hostname if required

(Not required on Slave)

Change the heartbeat ha.cf Process Configuration

Select Servers/PINsafe

Edit Heartbeat ha.cf File

Change the Ucast eth0 address and if changing the crossover IP change Ucast eth1 address.

Change hostnames if required

Change the gateway address ping <IP Gateway Address>

(Not required on Slave)

ucast eth0 192.168.0.37

ucast eth1 172.16.0.2

auto_failback on

Tell what machines are in the cluster # node nodename ... -- must match uname -n node primary.swivel.local node standby.swivel.local # # Treats 10.10.10.254 as a psuedo-cluster-member # Used together with ipfail below... # You must be able to ping this IP Address ping 192.168.0.254

Change the drbd Process Configuration

Select Servers/PINsafe

Edit drbd.conf File

Change the hostnames used if required

Change cross over IP address if required

(Not required on Slave)

on primary.swivel.local { device /dev/drbd0; disk /dev/sda9; address 172.16.0.1:7788; meta-disk internal; on standby.swivel.local { device /dev/drbd0; disk /dev/sda9; address 172.16.0.2:7788; meta-disk internal;

Change the Cluster Configuration

Select Cluster/Heartbeat Monitor

Configuration Options

Change the hostname if required

(Not required on Slave)

Change the PINsafe Administration Console Configuration where required

On the PINsafe server

Edit the RADIUS server IP address if required

Edit any changes to the RADIUS/NAS entries

Edit any changes to the Server/Agent entries

Change any remote device Configuration where required

ON the Remote devices

Edit RADIUS NAS devices for new PINsafe server IP

Edit Agents for new PINsafe server IP including any remote ChangePIN and Reset utilities

Edit any registry setting referring to PINsafe IP

Edit any custom login pages containing PINsafe server IP address information

Start MySQL Server

Select Servers/MySQL Database Server

Start MySQL Server

Start Monitor Process

Select Servers/PINsafe

Start Monitor

(Not required on Slave)

Start Heartbeat Process

Select Servers/PINsafe

Start Heartbeat

(Not required on Slave)

Output from /etc/init.d/heartbeat start ..

Starting High-Availability services:

[OK]

Start Tomcat Process

Select Servers/PINsafe

Start Tomcat

Output from /etc/init.d/tomcat5 start ..

Starting Tomcat: [OK]

Check the configuration

Use the status command to check the status of the MySQL servers

mysql

show master status;

show slave status\G;

Resync the slave server configuration from the Primary Master

On the slave server

stop mysql

service mysqld stop

delete all files in /var/lib/mysql except for the mysql folder

```

cd /var/lib/mysql
rm ./*
[root@appliance mysql]# rm ./*
rm: remove regular file `bin.000001'? y
rm: remove regular file `bin.000002'? y
rm: remove regular file `bin.000003'? y
rm: remove regular file `error.log'? y
rm: remove regular file `ibdata1'? y
rm: remove regular file `ib_logfile0'? y
rm: remove regular file `ib_logfile1'? y
rm: remove regular file `log-bin.index'? y
rm: remove regular file `master.info'? y
rm: cannot remove directory `mysql': Is a directory
rm: cannot remove directory `pinsafe_rep': Is a directory
rm: remove regular file `relay.000002'? y
rm: remove regular file `relay.000003'? y
rm: remove regular file `relay-log.index'? y
rm: remove regular file `relay-log.info'? y
[root@appliance mysql]# rm -rf ./pinsafe_rep/

```

Start the Mysql

service mysqld start

Load the database onto the slave and start the slave

mysql

load data from master;

start slave;

Check the status

From the mysql command line

show slave status\G;

Troubleshooting

Check the PINsafe, Apache Tomcat logs.

mysql> load data from master; ERROR 1218 (08S01): Error connecting to master: Access denied for user 'replication'@'192.168.0.129' (using password: YES)

Change the Master SQL Server Slave IP addresses permitted to authenticate. This is done in the webmin

Additional Information

For assistance in the PINsafe installation and configuration please contact your reseller or email Swivel Secure support at support@swivelsecure.com