

# CWDB

DNS	IP Address	Loc	OS	Ver	Services
cwdb	172.16.1.128	Internal VM	SLES	12	postgresql

## Installation

### SLE Modules

- Software Development Kit
- Web and Scripting

### Installed Packages

- `postgresql`

### Users

- `postgres` (created when installing the `postgresql` package)

## Useful Incantations

### Managing PostgreSQL Process

```
rcpostgresql start|stop|restart|reload
```

# Load Firewall Rules

```
SuSEfirewall2
```

## Cron Jobs

### Root

Copies custom firewall rules into area where normal backups can grab a copy and changes the ownership so that it can be copied over easily.

```
0 0 * * * cp bin/SuSEfirewall2-custom /var/lib/pgsql/data/ | chown postgres:postgres /var/lib/pgsql/data/SuSEfirewal
```

## Postgres

Runs the backup script that copies the `/data` directory via `rsync`.

```
15 3 * * * /var/lib/pgsql/bin/pg_binary_backup.sh >/dev/null 2>&1
```

## Firewall

There is a need for custom rules for the firewall to handle PostgreSQL and SSH connections. They are stored in `/root/bin/SuSEfirewall2-custom`. You can find a copy of this file within the binary backup of the `/data` directory for cwdb stored on archive.

- You will need to tell SUSE to load these custom rules by going to `YaST > System > /etc/sysconfig Editor > Network > Firewall > SuSEfirewall2 > FW_CUSTOMRULES` and then adding `/root/bin/SuSEfirewall2-custom` into the settings
- When you make changes to the custom rules, you will need to run the `SuSEfirewall2` command as `root` (pay attention to any error messages)

## Custom Rules File

Add the rules within the `fw_custom_before_masq()` area

## SuSEfirewall2-custom

```
# list each host IP address on a new line
SSH_HOSTS="
172.16.0.1
"

for SSH_HOST in $SSH_HOSTS; do
iptables -A input_ext -p tcp -s $SSH_HOST --dport 22 -j ACCEPT
done

# list each host IP address on a new line
PG_HOSTS="
172.16.0.1
"

for PG_HOST in $PG_HOSTS; do
iptables -A input_ext -p tcp -s $PG_HOST --dport 5432 -j ACCEPT
done
```

# Backup

WAL archives and `/data` directory backups are housed on the [archive](#) server.

## pg\_binary\_backup.sh

```
#!/bin/bash

CURRENT_DATE=$(date +%y-%m-%d)
DATA_PATH=/var/lib/pgsql/data/
ARCHIVE_DATA_PATH=/home/archive/cwdb/data/$CURRENT_DATE

psql -c "select pg_start_backup('backup for $CURRENT_DATE')"
rsync -cva --inplace --exclude=*pg_xlog* $DATA_PATH archive@172.16.1.130:$ARCHIVE_DATA_PATH
psql -c "select pg_stop_backup(), current_timestamp"
```

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Revision #1

Created 25 April 2025 20:49:23 by Rachel Feld

Updated 25 April 2025 20:49:33 by Rachel Feld