Server Deployment Package

Unix Installation Guide

**Prerequites**

1. Two (recommended, not required) identical database volumes – local SSD recommended.
   1. One for root
   2. One for offline checkpoints and database switching
   3. Volume for the depot files
   4. Volume for the journal and logs – Place on database volume if separate logs not available.
2. User to run the perforce service under if one doesn't already exist.
3. Perforce super user account and password for management. (Something like p4admin for example. Not an employee's account.)
4. Choose (new server) the or check (existing server) the case sensitivity of the Perforce server.
5. /p4 top level folder - (Only required ahead of time if root access to the machine is not available during the install.)

**Installation:**

Download the tgz and place it on the depot files data volume, then extract it with tar xvzf sdp.tgz

This will create a directory named sdp.

run chown -R perforce:perforce sdp\* (Or whatever your OS user’s name and group is.)

cd sdp/Server/Unix/setup

vi mkdirs.sh

Check the configuration section variables are all set correctly for your server.

Add the primary admin's email to the MAILTO configurable.

Save mkdirs.cfg

Put a copy of your server's version of p4 and p4d in sdp/Server/Unix/p4/common/bin.

Check to make sure that a file or folder named "p4" does not exist in the top level of any of the install folders.

As root, run:

cd sdp/Server/Unix/setup

./mkdirs.sh <instance number or name>

ie: ./mkdirs.sh 1

See note at the bottom of the page for servers with an existing SDP install.

Next, stop your server do the following:

Move the production db.\* to /p4/<instance\_name>/root

Move the license to /p4/<instance\_name>/root

Move the journal and log files to /p4/<instance\_name>/logs

Move all depots to /p4/<instance\_name>/depots (If any have hard coded map fields in the depots, mk temporary links from the new location to the old location. After starting the server, update the depots to remove any hard coded mappings from the depots. After that, you can go back and remove the temporary links you created. Don’t start the server yet though.)

Follow the directions in /p4/sdp/Server/Unix/setup/systemd/README.md to configure the system startup files.

(make sure all files are owned by the perforce user at this point)

sudo su - perforce

/p4/<instance\_name>/bin/p4d\_<instance\_name> -r /p4/<instance\_name>/root -J /p4/<instance\_name>/logs/journal " -cset server.depot.root=/p4/<instance\_name>/depots"

systemctl start p4d\_1

Set up your environment to be able to connect to your server now (source /p4/common/bin/p4\_vars <instance>), and then run:

p4 configure set journalPrefix=/p4/<instance\_name>/checkpoints/p4\_<instance\_name>

Also, set any other configurables from /p4/sdp/setup/configure\_new\_server.sh that you want to use for your server. (You can just edit the configure\_new\_server.sh script and run it as ./configure\_new\_server.sh <instance\_name> if you would like.)

cd /p4

vi p4.crontab

Change the instance=1 to instance=<instance\_name>

Check the times for running the scripts and update as necessary. Comment any that you don't want to run and save the file.

Run "crontab p4.crontab" to load the new crontab.

Now, run some checks to make sure everything looks like it should. "p4 info", "p4 depots", etc.

**Offline Checkpoints:**

If you have an offline set of db files, move those into /p4/<instance\_name>/offline\_db. If you do not, then recover the most recent checkpoint into the offline\_db folder.

After the db files are in the offline\_db folder, run "touch /p4/<instance\_name>/offline\_db/offline\_db\_usable.txt"

Now, at this point, if you want to test the offline checkpoint process, you can run:

/p4/common/bin/daily\_checkpoint.sh <instance\_name>

When it finishes, you should get an email containing the contents of /p4/<instance\_name>/logs/checkpoint.log

**Existing SDP servers:**

On a server where an older version of the SDP exists, you would stop the existing server, and go to each volume where a p4 directory exists and rename it to p4.orig. Then remove the links in /p4 and rename the p4.crontab\* files as well.

Now install the the new sdp after updating mkdirs.sh.

Next, mv the data, triggers, and any custom scritps from the p4.orig directories to the newly installed p4 directories and restart the server.

Test to make sure everything is okay, and if so, you can remove the p4.orig directories.

Last, update the crontab to use any newly named scripts per /p4/p4.crontab, p4.crontab.replica or p4.crontab.edge depending on the type of server you are upgrading.