Server Deployment Package

Unix Installation Guide

**Prerequites**

1. Two identical database volumes – local SSD recommended.
	1. One for root - /hxdb1
	2. One for offline checkpoints and database switching - /hxdb2
	3. Volume for the depot files - /hxdepots
	4. Volume for the journal and logs - /hxlogs
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 /hxdepots, then extract it with tar xvzf sdp.Unix.<version>.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.sh

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\_name>

ie: ./mkdirs.sh fifa

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 any depots that do not have hard coded map fields to /p4/<instance\_name> /depots

Double check that you have moved everything to the correct location, and then run:

cp /p4/<instance\_name>/bin/p4d\_<instance\_name>\_init /etc/init.d

cd /etc/init.d

chkconfig --add pd\_<instance\_name>\_init

chkconfig p4d\_<instance\_name>\_init on

(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"

/etc/init.d/p4d\_<instance\_name>\_init start

Set up your environment to be able to connect to your server now, 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 (p4.crontab.edge for an edge server or p4.crontab.replica for a replica server)

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, we install the new SDP into /tmp. This requires a little more downtime since we move the move the old SDP first, and then move the new SDP into place and finally move the data from the old SDP to the new SDP during the outage window.

You would run: ./mkdirs.sh <instance\_name> -test

This will install the new SDP structure to /tmp/p4, and you then have to stop the existing server and move everything around. I do that by renaming the existing folders first, then moving the new folders into place and updating the links. Then I move the existing data into the new directory structure.

On a server where the as not been installed, we just pre-install everything and prepare the offline database volume by recovering the most recent checkpoint to the volume ahead of time. Then, during the outage window, we move the root db, journal and depots (if not hard coded) to the SDP structure, and start the server back up. After starting the server, we install the new crontab and test the checkpoint scripts to make sure everyhing is working properly.