

Perforce Software, Inc.

510.864.7400

[consulting@perforce.com](mailto:consulting@perforce.com)

[www.perforce.com](http://www.perforce.com/)

SDP Administrator Guide   
(2018.1)

(first draft)

Table of Contents

[1 UNIX Installation 3](#_Toc528663541)

[1.1 Prerequisites 3](#_Toc528663542)

[1.2 Installation 3](#_Toc528663543)

[1.3 Offline Checkpoints 4](#_Toc528663544)

[1.4 Existing SDP servers 5](#_Toc528663545)

# UNIX Installation

## Prerequisites

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.
3. Perforce super user account and password for management. (Something like p4admin for example. Not an employee's account.)
4. Choose (new server) 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

1. 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.
2. run chown -R perforce:perforce sdp\* (Or whatever your OS user’s name and group is.)
3. cd sdp/Server/Unix/setup
4. vi mkdirs.sh
5. Makes sure that the configuration section variables are set correctly for  your server.
6. Add the primary admin's email to the MAILTO configurable.
7. Save mkdirs.sh
8. Put a copy of your server's version of p4 and p4d in sdp/Server/Unix/p4/common/bin.
9. Check to make sure that a file or folder named "p4" does not exist in the top level of any of the install folders.
10. 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.

1. Stop your server
2. Move the production db.\* to /p4/<instance\_name>/root
3. Move the license to /p4/<instance\_name>/root
4. Move the journal and log files to /p4/<instance\_name>/logs
5. Move any depots that do not have hard coded map fields to /p4/<instance\_name> /depots
6. Make sure that you have moved everything to the correct location.
7. 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

1. Set up your environment to be able to connect to your server.
2. Run:

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

1. Set any other configurables from /p4/sdp/setup/configure\_new\_server.sh that you want to use for your server.   
     
   You can edit the configure\_new\_server.sh script and run it as ./configure\_new\_server.sh <instance\_name>
2. cd /p4
3. vi p4.crontab (p4.crontab.edge for an edge server or p4.crontab.replica for a replica server)
4. Change the instance=1 to instance=<instance\_name>
5. Check the times for running the scripts and update as necessary. Comment out any that you don't want to run and save the file.
6. Run "crontab p4.crontab" to load the new crontab.
7. Run some checks to make sure everything looks like it should: "p4 info", "p4 depots", etc.

## Offline Checkpoints

1. 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.
2. Run   
     
   "touch /p4/<instance\_name>/offline\_db/offline\_db\_usable.txt"

1. Test the offline checkpoint process:

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

1. 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:

1. Stop the server.
2. Go to each volume where a p4 directory exists and rename it to p4.orig
3. Remove the links in /p4
4. Rename the p4.crontab\* files.
5. Update mkdirs.sh
6. Install the new sdp
7. mv the data, triggers, and any custom scripts from the p4.orig directories to the newly installed p4 directories.
8. Restart the server.
9. Test to make sure everything is okay, and if so, you can remove the p4.orig directories.
10. 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.