

SDP Release Notes

Perforce Professional Services

Version v2020.1, 2020-12-31

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Preface

Please Give Us Feedback

Perforce welcomes feedback from our users. Please send any suggestions for improving this document or the SDP to consulting@perforce.com.

Overview

These release notes document changes to the SDP.

There are two flavors of the SDP, Unix and Windows.

For UNIX/Linux, see: [SDP Guide for UNIX/Linux](#)

For Windows, see: [SDP Guide for Windows](#)

For information on upgradeing the SDP to the 2020.1 from prior releases, on Linux, see the [SDP Legacy Upgrade Guide \(for Unix\)](#).

What's New in SDP 2020.1.

Change History

Released: Rev. SDP/MultiArch/2019.3/26494 (2020/04/23)

Jobs Fixed since change 26478 up to 26494 (F=Feature, B=Bug):

- [SDP-529](#) (F): Add ability to limit specific commands to one-per-user, e.g. populate.
- [SDP-531](#) (B): The recover_edge.sh script needed updating to use new start/stop functions.

Released: Rev. SDP/MultiArch/2019.3/26478 (2020/04/12)

Jobs Fixed since change 26472 up to 26478 (F=Feature, B=Bug):

- [SDP-527](#) (B): Patch to rotate_journal.sh and add test coverage for it.
- [SDP-528](#) (F): Enhance dynamic check to work with replicas that do not set journalPrefix.

Released: Rev. SDP/MultiArch/2019.3/26472 (2020/04/10)

Jobs Fixed since change 26468 up to 26472 (F=Feature, B=Bug):

- [SDP-526](#) (F): Use dynamic journalPrefix detection for non-master servers.

Released: Rev. SDP/MultiArch/2019.3/26468 (2020/04/10)

Jobs Fixed since change 26407 up to 26468 (F=Feature, B=Bug):

- [SDP-446](#) (B): wrong variables used in recreate_offline_db_files
- [SDP-519](#) (B): Fixed missing variable initialization in load_checkpoint.sh.
- [SDP-520](#) (F): Add login and trust logic to load_checkpoint.sh.
- [SDP-521](#) (F): Have load_checkpoint.sh handle P4SSLDIR and cert creation automatically.
- [SDP-522](#) (F): Have load_checkpoint.sh check for a license file.
- [SDP-524](#) (B): Fix refresh_P4ROOT_from_offline_db.sh to work on a non-edge replica.
- [SDP-525](#) (B): Remove parallel checkpoint scripts temporarily.

Released: Rev. SDP/MultiArch/2019.3/26407 (2020/03/28)

Jobs Fixed since change 26400 up to 26407 (F=Feature, B=Bug):

- [SDP-427](#) (F): Use systemd consistently if available for p4d start/stop.

Released: Rev. SDP/MultiArch/2019.3/26400 (2020/03/28)

Jobs Fixed since change 26239 up to 26400 (F=Feature, B=Bug):

- [SDP-427](#) (F): Use systemd consistently if available for p4d start/stop.
- [SDP-431](#) (F): Make p4d startup resistant to timing issues for reboots & fast
- [SDP-436](#) (F): Provide snapshot hook for daily_checkpoint.sh.

- [SDP-444](#) (F): Add script to safely refresh P4ROOT db.* from offline_db.
- [SDP-451](#) (F): Added '-f <P4TARGET>' flag to mkrep.sh.
- [SDP-452](#) (F): Enhance mkrep.sh to instruct using edge_dump.sh for edge servers.
- [SDP-453](#) (F): For filtered replicas, have mkrep.sh instruct using '-P ServerID'.
- [SDP-454](#) (B): verify_sdp.sh should handle being run as root
- [SDP-455](#) (F): Add license expiration check to verify_sdp.sh.
- [SDP-510](#) (B): Fix issue with 'clean start' test suite run due to Python symlink issues.

Released: Rev. SDP/MultiArch/2019.3/26239 (2020/01/08)

Jobs Fixed since change 26159 up to 26239 (F=Feature, B=Bug):

- [SDP-423](#) (B): slight typo in comment /p4/INSTANCe/checkpoints
- [SDP-430](#) (B): Fixed typo causing os_tweaks.sh not to recognize Ubuntu 18.
- [SDP-437](#) (F): Enhance makedirs.sh for standby replicas to match other replica types.
- [SDP-441](#) (B): Upgrade.ps1 fails with error for Windows SDP
- [SDP-443](#) (B): Fix in maint scripts to pickup SDP_INSTANCE if no arg passed.

Released: Rev. SDP/MultiArch/2019.3/26159 (2019/11/06)

Jobs Fixed since change 25949 up to 26159 (F=Feature, B=Bug):

- [SDP-448](#) (F): Enable 'p4 submit -b' by setting submit.allowbgtransfer=1 for P4D 2019.1.
- [SDP-352](#) (F): Eliminate excessive journal rotations on p4d startup.
- [SDP-412](#) (B): Backup failing as logs cannot be rotated as the server is too busy.
- [SDP-424](#) (B): sync_replica.sh fails on standby replica w/rpl.journalcopy.location=1.
- [SDP-425](#) (B): mkrep.sh fails for replica of replica due to ReplicatingFrom field hard coded to master.1
- [SDP-426](#) (F): Add -f flag to p4d -jr on SDP for Windows.

Released: Rev. SDP/MultiArch/2019.2/25949 (2019/08/12)

Jobs Fixed since change 25938 up to 25949 (F=Feature, B=Bug):

- [SDP-415](#) (B): Fixed typo in scripts for handling edge servers.

Released: Rev. SDP/MultiArch/2019.2/25938 (2019/08/05)

Jobs Fixed since change 25923 up to 25938 (F=Feature, B=Bug):

- [SDP-414](#) (B): Fixed issue with safety check in edge processing scripts.

Released: Rev. SDP/MultiArch/2019.2/25923 (2019/08/05)

Jobs Fixed since change 25594 up to 25923 (F=Feature, B=Bug):

- [SDP-398](#) (F): Disallow replicas from being initially mandatory per P4D 2019.1 requirement.
- [SDP-400](#) (B): Fixed p4login bug where P4PORT value can have a value of Unset.
- [SDP-401](#) (F): Enhanced replica_status.sh to check archive replication.
- [SDP-403](#) (B): Fixed root-owned symlinks in /p4/N after running mkdirs.sh.
- [SDP-404](#) (F): Update edge scripts to support 2019.1+ changes to edge servers.
- [SDP-405](#) (F): Enhanced load_checkpoint.sh to handle case-insensitive checkpoints.
- [SDP-410](#) (B): [R]CMDEXITCODE not set when [r]run() called with 'grep string' parameter.
- [SDP-413](#) (F): Add script to request checkpoint on edge/replica.

Released: Rev. SDP/MultiArch/2019.2/25594 (2019/05/02)

Jobs Fixed since change 25480 up to 25594 (F=Feature, B=Bug):

- [SDP-356](#) (F): Reduce SDP Core to contain only software supported by Perforce Support.
- [SDP-369](#) (F): Added flags to p4verify.sh to verify by type like shelved.
- [SDP-374](#) (B): Fixed off-by-three-orders-of-magnitude error in proxy cleanup script.
- [SDP-378](#) (F): Removed journalPrefix as command line paramter during journal rotation, deferring to db.config values.
- [SDP-380](#) (F): Removed journalPrefix as command line paramter during journal rotation, deferring to db.config values.
- [SDP-383](#) (F): Added '-a' flag meant to be equivalent of most common set of flags.
- [SDP-384](#) (B): Fixed failure to cleanup old logs in sdp_sync.sh on Ubuntu Linux.
- [SDP-392](#) (B): upgrade.sh must handle new 19.1 features
- [SDP-393](#) (B): Fixed perms on purge_revisions.sh and journal_watch.sh.
- [SDP-394](#) (F): Added support for wildcards/globbering to purge_revisions.sh scripts.
- [SDP-395](#) (F): Added support for 2019.1 upgrades and testing of same.

Released: Rev. SDP/MultiArch/2019.1/25480 (2019/04/11)

Jobs Fixed since change 25386 up to 25480 (F=Feature, B=Bug):

- [SDP-382](#) (B): Fixed missing 'exit 1' in p4d_base after 'p4d -xvU' check failure.
- [SDP-387](#) (F): Test harness should run verify_sdp.sh and look for errors.
- [SDP-390](#) (B): Removed crontab refs to deleted scripts.
- [SDP-391](#) (B): In mkdir.sh, fixed root ownership of generated crontab file.

Released: Rev. SDP/MultiArch/2019.1/25386 (2019/03/21)

Jobs Fixed since change 25374 up to 25386 (F=Feature, B=Bug):

- [SDP-379](#) (B): Fixed mkdirs.sh issue with SSL-enabled installs due to chown issue.

Released: Rev. SDP/MultiArch/2019.1/25374 (2019/03/21)

Jobs Fixed since change 25320 up to 25374 (F=Feature, B=Bug):

- [SDP-302](#) (F): Parallelized checkpoint processing to reduce duration.
- [SDP-375](#) (B): Fix ownership and missing symlink issues in mkdirs.sh.

Released: Rev. SDP/MultiArch/2019.1/25320 (2019/03/08)

Jobs Fixed since change 25309 up to 25320 (F=Feature, B=Bug):

- [SDP-372](#) (B): Fixed breaking test - logic around \$CN was misunderstood.

Released: Rev. SDP/MultiArch/2019.1/25309 (2019/03/07)

Jobs Fixed since change 25276 up to 25309 (F=Feature, B=Bug):

- [SDP-370](#) (B): Fix issue with mkdirs.sh -test mode.
- [SDP-371](#) (B): Fixed install_sdp_perl to work with updated P4Perl.

Released: Rev. SDP/MultiArch/2019.1/25276 (2019/03/06)

Jobs Fixed since change 25238 up to 25276 (F=Feature, B=Bug):

- [SDP-368](#) (B): Fix syntax errors for SDP_ADMIN_PASSWORD_FILE in backup_functions.sh.

Released: Rev. SDP/MultiArch/2019.1/25238 (2019/03/02)

Jobs Fixed since change 23583 up to 25238 (F=Feature, B=Bug):

- [SDP-198](#) (B): DOC: SDP Guide needs more detail on SDP-controlled replica setup.
- [SDP-247](#) (B): Need a validation script to check current status, especially after an upgrade from older version of SDP.
- [SDP-255](#) (B): Update SDP documentation to deal with SSL enabled servers.
- [SDP-256](#) (B): Update documentation to include mkdirs.cfg instead of updating mkdirs.sh
- [SDP-269](#) (F): Optimize journalPrefix values for master, edge, standby, replica.
- [SDP-296](#) (B): Fixed bug where updates to os_tweaks.sh dropped support for RHEL 6.5.
- [SDP-297](#) (B): Fixed handling of unlaod depots in p4verify.sh
- [SDP-298](#) (B): Avoid checking for shelved files in spec depot.
- [SDP-299](#) (F): Enhanced HMS failover for standby/journalcopy replicas to use 'p4 admin end-journal'
- [SDP-300](#) (F): Set rpl.journalcopy.location=1 for p4d 2018.1+ servers.
- [SDP-301](#) (B): Crontab spamming emails if configurable track=1
- [SDP-304](#) (B): Fixed issues with hms status for SSL-enabled servers, etc.
- [SDP-305](#) (F): Enhancemnts in libcore.sh bail(), errmsg(), initlog(), and stoplog() functions.

- [SDP-306](#) (B): Moved cset of P4JOURNAL so it's done only on master or edge server.
- [SDP-307](#) (F): Changed hms remote spec for the Public Depot to be the default 'origin'.
- [SDP-308](#) (F): Set `rpl.journalcopy.location=1` for 2018.1+ standby replicas.
- [SDP-311](#) (B): Avoid unnecessary removal of `rdb.lbr` in db swap.
- [SDP-313](#) (F): Batch of `validate_sdp.sh` enhancements.
- [SDP-314](#) (B): Fixed scary but otherwise harmless error in `Cmd.pm`
- [SDP-315](#) (F): Reformat protections table comment format during upgrades.
- [SDP-316](#) (F): Added script to rotate live journal due low disk space
- [SDP-317](#) (B): Fixed issue preventing failover from an edge server.
- [SDP-318](#) (B): Removed HMS references to `/usr/local/bin/bash`.
- [SDP-319](#) (F): Use 'p4 monitor terminate' rather than 'kill' for idle pids.
- [SDP-325](#) (F): Enhanced `rejectList` setting for P4EXP.
- [SDP-326](#) (F): Enhanced `rejectList` setting for P4EXP.
- [SDP-327](#) (B): DOC: must I create `/hx*`?
- [SDP-328](#) (B): DOC: mismatch between setup instructions and setup script
- [SDP-329](#) (B): DOC: folder permissions
- [SDP-330](#) (B): DOC: to where should we copy the `tgz` file?
- [SDP-331](#) (B): DOC: lack of clarity on folder ownership.
- [SDP-332](#) (B): DOC: setting executable bit on p4 etc.
- [SDP-333](#) (B): DOC: reorder the create user/group sequence on Linux.
- [SDP-334](#) (B): DOC: no comment on `mkdirs.N.cfg`, referenced in the `mkdirs.sh` script.
- [SDP-335](#) (B): DOC: no comment on ssl certificate generation.
- [SDP-337](#) (B): The `upgrade.sh` script, used to update your p4/p4d executables and corresponding database, starts with the message:
- [SDP-338](#) (F): DOC: server upgrades and checkpoint
- [SDP-339](#) (B): DOC: non-existent script referenced in docs
- [SDP-341](#) (B): Critical `recreate_db_checkpoint.sh` bug with shared `/hxdepots` shared.
- [SDP-342](#) (B): Fixed issue with `P4Triggers.py` impacting `CheckCaseTrigger.py`, etc.
- [SDP-345](#) (B): Implemented '-r' flag to clean up old logs in `global_replica_status.sh`.
- [SDP-347](#) (F): Enhance `CaseCheckTrigger` to work even if `defaultChangeType` is set to restricted.
- [SDP-348](#) (F): Enhanced `CheckCaseTrigger.py` to enable bypass.
- [SDP-350](#) (F): Support SELinux ("Security Enhanced Linux") in enforcing mode.
- [SDP-353](#) (F): Avoid doing 'p4d -cset' for P4JOURNAL, but preserve safety feature.
- [SDP-362](#) (B): `p4verify.sh -remote` ignores `SDP_RECENT_CHANGES_TO_VERIFY`.
- [SDP-366](#) (F): Optimize display of Support messaging.

- [SDP-367](#) (B): p4verify.sh should also specify the -t (transfer) option for edge servers like it currently does for replicas.
- [SDP-49](#) (B): SDP Guide: inconsistent user name used in setup instructions. Page 9 of the pdf, step 1 says create user 'p4admin'. The rest of the guide that I've read, and the mkdirs.sh script, all refer to user 'perforce'.
- [SDP-73](#) (F): Add Evil Twin detector/prevention trigger.

Released: Rev. SDP/MultiArch/2018.1/23583.p2 (2019/01/23)

Jobs Fixed since change 23583.p1 up to 23583.p2 (F=Feature, B=Bug): * [SDP-366](#) (F): Optimize display of Support messaging. * [SDP-341](#) (B): Critical recreate_db_sync_replica.sh bug with shared /hxdepots shared.

Released: Rev. SDP/MultiArch/2018.1/23583.p1 (2018/07/13)

PATCH release fixes * [SDP-341](#). * [SDP-341](#) (B): Critical recreate_db_checkpoint.sh bug with shared /hxdepots shared.

Released: Rev. SDP/MultiArch/2018.1/23583 (2018/02/08)

Jobs Fixed since change 23504 up to 23583 (F=Feature, B=Bug):

- [SDP-287](#) (B): Fixed mkdirs.sh bug fixing ownership of wrong dir. 2nd fx for * [SDP-287](#).

Released: Rev. SDP/MultiArch/2018.1/23504 (2018/01/19)

Jobs Fixed since change 23354 up to 23504 (F=Feature, B=Bug):

- [SDP-285](#) (B): The use of "tee" in p4d_base causes start to hang on some systems with 2016.2 p4d
- [SDP-286](#) (B): Fixed: In configure_new_server.*, super user not logged in after restart.
- [SDP-287](#) (B): Fixed mkdirs.sh bug fixing ownership of wrong dir.
- [SDP-290](#) (F): Added SDP-standard Ruby to PATH.
- [SDP-291](#) (F): Added workflow support triggers.
- [SDP-292](#) (F): Enhancements to p4dstate.sh.

Released: Rev. SDP/MultiArch/2017.4/23354 (2017/12/08)

Jobs Fixed since change 23329 up to 23354 (F=Feature, B=Bug):

- [SDP-281](#) (B): Fixed journalPrefix logic in mkdirs.sh

Released: Rev. SDP/MultiArch/2017.4/23329 (2017/12/05)

Jobs Fixed since change 23041 up to 23329 (F=Feature, B=Bug):

- [SDP-265](#) (B): sync_replica.sh and recreate_db_sync_replica.sh should avoid rsync compression
- [SDP-266](#) (B): Fixed logging issue with sync_replica.sh and recreate_db_sync_replica.sh.
- [SDP-267](#) (B): Fixed issue detecting an edge server; wrong EDGESERVER value.

- [SDP-268](#) (F): Added basic comments to all functions in backup_functions.sh.
- [SDP-269](#) (F): Optimize journalPrefix values for master, edge, standby, replica.
- [SDP-270](#) (F): Added trigger script to create Swarm reviews (and unit test).
- [SDP-271](#) (F): Refactor to push common arg_parse into P4Triggers.
- [SDP-272](#) (F): Enhance p4login info in error output, added -d debug flag.
- [SDP-273](#) (F): New RequireJob pre-submit trigger.
- [SDP-274](#) (F): Added trigger to validate contents YAML files.
- [SDP-276](#) (B): Make mkrep.sh work when /p4/hms instance does not exist.
- [SDP-277](#) (F): Added license time remaining check script.
- [SDP-278](#) (F): Enhance upgrade.sh run on machines with only broker/proxy.
- [SDP-279](#) (F): Added filetype.bypasslock=1 configurable, recommended for Swarm.
- [SDP-280](#) (F): Updated Support coverage info and enhanced other info in SDP README file.

Released: Rev. SDP/MultiArch/2017.3/23041 (2017/10/24)

Jobs Fixed since change 23003 up to 23041 (F=Feature, B=Bug):

- [SDP-143](#) (F): Enhance init scripts to display usage with no args.
- [SDP-259](#) (B): Fixed logging issue in upgrade.sh - p4broker/p4p start/stop not captured.
- [SDP-260](#) (F): Simplified stop_p4d() in backup function due to logic now in p4d_base.
- [SDP-261](#) (B): Fixed minor issue message about rotating journal escaping log capture.
- [SDP-262](#) (F): Take advantage of '--daemonsafe' arg in P4D 2017.1.
- [SDP-263](#) (B): Fixed login count in p4login script.

Released: Rev. SDP/MultiArch/2017.3/23003 (2017/10/19)

Jobs Fixed since change 22201 up to 23003 (F=Feature, B=Bug):

- [SDP-223](#) (B): Fix EDGESERVER check in p4d_base regression.
- [SDP-224](#) (B): Fix os_tweaks.sh to work on RHEL/CentOS 6.9.
- [SDP-225](#) (B): Updated hms_ts_setup.sh to adapt to mkdirs.cfg changes.
- [SDP-226](#) (B): Fixed typo in variable name in libcore.sh.
- [SDP-227](#) (B): install_sdp_perl.sh: Added DVCS environment isolation safety feature.
- [SDP-228](#) (F): install_sdp_perl.sh: Now uses r17.1 API.
- [SDP-232](#) (F): Re-establish autologinprompt default behavior.
- [SDP-233](#) (B): Fix bug in sdp_sync.sh related to args passed to rrun function.
- [SDP-234](#) (B): Change Unix default server.id to be unique to support remote depots
- [SDP-236](#) (B): Avoid issues interacting with incompatible local Perl.
- [SDP-237](#) (B): Scripts using libcore.sh display a harmless but scary error after all processing

completes.

- [SDP-239](#) (F): Renamed crontab templates files to be template.job.p4s rather than *.template.
- [SDP-240](#) (B): Fixed cosmetic logging bug affecting several scripts.
- [SDP-241](#) (B): Update systemd templates to add new wait targets.
- [SDP-242](#) (B): Corrected filetypes on some scripts to chmod +x.
- [SDP-248](#) (F): Provide an override for diff between proxy listen and target ports.
- [SDP-249](#) (F): Extended P4IGNORE for more Mac files.
- [SDP-250](#) (F): Add value for db.monitor.shared configurable.
- [SDP-251](#) (F): Tweaked versions for which net.tcpsize=0 is set.
- [SDP-252](#) (B): SetWsOptionsAndView.py trigger should exit 0 when p4 client used w/ -t <template>.
- [SDP-253](#) (F): Various Windows SDP enhancements.
- [SDP-254](#) (F): Added SDP Overview slide preso to SDP.

Released: Rev. SDP/MultiArch/2017.2/22201 (2017/05/18)

Jobs Fixed since change 22177 up to 22201 (F=Feature, B=Bug):

- [SDP-222](#) (B): Fixed issue with testing mkdirs.sh on Mac.

Released: Rev. SDP/MultiArch/2017.2/22177 (2017/05/17)

Jobs Fixed since change 21808 up to 22177 (F=Feature, B=Bug):

- [SDP-153](#) (B): Maintenance script unload_clients_with_delete.py needs to ignore swarm workspaces to avoid losing data.
- [SDP-195](#) (F): Added new configurable setting: 'fileys.bufsize=1M'.
- [SDP-196](#) (B): Fixed bug in unload_labels.py, weeks passed in as days.
- [SDP-197](#) (B): Fixed bug in Windows Powershell p4verify.ps1 script.
- [SDP-200](#) (B): Fixed issue with /tmp getting polluted with temp files.
- [SDP-201](#) (F): Various scripts favor more scalable run()/rrun() over
- [SDP-202](#) (F): HMS scripts normalize to /bin/bash, check BASH_VERSION
- [SDP-203](#) (F): Added new JobIncrement trigger to simplify custom job name usage.
- [SDP-210](#) (F): Enhanced P4DTG init script reliability.
- [SDP-215](#) (F): Added new configurable setting: 'dm.user.loginattempts=7'.
- [SDP-216](#) (F): Refactored mkdirs.sh extracting user-config into mkdirs.cfg.
- [SDP-219](#) (B): Corrected logic on skipping the swarm user in remove_empty_pending_changes.py
- [SDP-220](#) (F): Added triggers using alternative file transfer for submit/pull.
- [SDP-221](#) (F): Enhanced to rotate p4verify.log like other logs.

Released: Rev. SDP/MultiArch/2017.1/21808 (2017/03/08)

Jobs Fixed since change 21720 up to 21808 (F=Feature, B=Bug):

- [SDP-191](#) (B): Fixed default thresholds values in proxy cache cleaner.
- [SDP-192](#) (B): User deletion maint script handles usernames with backslash.
- [SDP-193](#) (F): Enhance proxy init script to incorporate monitoring, adding default value in p4_vars.

Released: Rev. SDP/MultiArch/2017.1/21720 (2017/02/17)

Jobs Fixed since change 21528 up to 21720 (F=Feature, B=Bug):

- [SDP-179](#) (F): Enhanced install_sdp_perl.sh to build with P4Perl from The Workshop
- [SDP-181](#) (B): Fixed issue keeping recreate_db_sync_replca.sh from fixing a replica out-of-sync issue.
- [SDP-182](#) (F): Enhanced and updated install_sdp_perl.sh
- [SDP-183](#) (B): In recreate_db_sync_replica.sh, ensure P4ROOT and OFFLINE_DB are cleaned.
- [SDP-184](#) (B): Fixed bug resulting in error sending email on Ubuntu.
- [SDP-185](#) (F): Added PowerShell script p4verify.ps1 to verify on Windows.
- [SDP-186](#) (F): Simplified Windows setup with batch wrappers to PowerShell scripts.
- [SDP-187](#) (F): General Unix doc enhancements.
- [SDP-188](#) (F): Enhanced Perl library modules. [SDP0190](#) (B): Fixed hms failover bug targeting wrong host with multiple possible targets.

Released: Rev. SDP/MultiArch/2016.2/21528 (2017/01/14)

Jobs Fixed since change 21489 up to 21528 (F=Feature, B=Bug):

- [SDP-160](#) (F): Enhanced P4Triggers.py to print exceptions encountered.
- [SDP-175](#) (F): Added more exclusions to /p4/.pignore.
- [SDP-176](#) (B): Fixed issues with hms_ts_setup.sh.
- [SDP-177](#) (B): Backed out clever tempdir feature that negatively impacted portability.

Released: Rev. SDP/MultiArch/2016.2/21489 (2017/01/11)

Jobs Fixed since change 21480 up to 21489 (F=Feature, B=Bug):

- [SDP-174](#) (B): Added Suffix field to spec depot in new servers.

Released: Rev. SDP/MultiArch/2016.2/21480 (2017/01/11)

Jobs Fixed since change 21379 up to 21480 (F=Feature, B=Bug):

- [SDP-167](#) (F): Added server.start.licensed configurable.
- [SDP-168](#) (F): Work around RHEL/CentOS 7 command completion issue.

- [SDP-169](#) (B): Fixed install_sdp_python.sh issue with building P4Python for SSL-enabled server.
- [SDP-170](#) (F): Added script to lowercase a directory tree.
- [SDP-171](#) (F): Added SSL support in hms_ts_setup.sh.
- [SDP-172](#) (B): Fixed bug in upgrade.sh introduced when truncate journal was changed to use p4 admin journal.
- [SDP-173](#) (F): Enhanced SSL support in install_sdp_python.sh to account for varied OpenSSL installations.

Released: Rev. SDP/MultiArch/2016.2/21379 (2016/12/20)

Jobs Fixed since change 21328 up to 21379 (F=Feature, B=Bug):

- [SDP-165](#) (F): Simplified SSL autogen cert generation.
- [SDP-166](#) (B): Re-login after setting auth.id, restart at end of script.

Released: Rev. SDP/MultiArch/2016.2/21328 (2016/12/16)

Jobs Fixed since change 21239 up to 21328 (F=Feature, B=Bug):

- [SDP-157](#) (F): Added sample /Users/perforce/.mailrc.
- [SDP-158](#) (F): SDP-ified log, moving p4triggers.log to \${LOGS}.
- [SDP-159](#) (F): Updated to hms tight ship setup script, still WIP.
- [SDP-161](#) (F): Added script to lowercase a dir tree.
- [SDP-162](#) (F): Added initial HMS tight ship script.
- [SDP-163](#) (F): Standardized doc format to docx.
- [SDP-164](#) (F): Enhanced to support enterprise environments with two metadata volumes.

Released: Rev. SDP/MultiArch/2016.2/21239 (2016/12/06)

Jobs Fixed since change 21193 up to 21239 (F=Feature, B=Bug):

- [SDP-154](#) (F): Enable auth.id for P4D 2016.1+ servers.
- [SDP-155](#) (F): Suppress known-harmless errors in p4verify.sh.
- [SDP-156](#) (F): Enhance install_sdp_p* scripts to remove hard-coded dependency on an instance 1.

Released: Rev. SDP/MultiArch/2016.2/21193 (2016/12/2)

- [SDP-138](#) (F): Take advantage of new 2016.2 configurables.
- [SDP-147](#) (F): Add CentOS 7 support to os_tweaks.sh
- [SDP-148](#) (F): Update SDP Python/Perl install to use 'http:' rather than 'ftp:' in URLs.
- [SDP-150](#) (B): Correct cp path for ssl dir.
- [SDP-151](#) (F): Enhance Windows SDP install to server.depot.root.
- [SDP-152](#) (F): Enhance to support 2 volumes for root/offline_db. Modified directory structure and

scripts to support storing root and offline database on two different volumes. This is actually a preferred configuration now for performance and safety.

Released: Rev. SDP/MultiArch/2016.2/21123 (2016/11/22)

Jobs Fixed since change 21103 up to 21123 (F=Feature, B=Bug):

- [SDP-149](#) (B): Fix shebang line for case check trigger.
- [SDP-150](#) (B): Correct cp path for ssl dir.

Released: Rev. SDP/MultiArch/2016.2/21103 (2016/11/21)

Jobs Fixed since change 21101 up to 21103 (F=Feature, B=Bug):

- [SDP-146](#) (F): Added doc-only hms setup scripts.

Released: Rev. SDP/MultiArch/2016.2/21101 (2016/11/21)

Jobs Fixed since change 21033 up to 21101 (F=Feature, B=Bug):

- [SDP-144](#) (F): Add CheckCaseTrigger.p to the SDP.
- [SDP-145](#) (F): Various doc update for hms and failover.

Released: Rev. SDP/MultiArch/2016.2/21033 (2016/11/10)

Jobs Fixed since change 20995 up to 21033 (F=Feature, B=Bug):

- [SDP-139](#) (B): mkrep.sh: Add missing journalcopy to standby replicas.
- [SDP-140](#) (B): hms: Fixed issues with script hang on local failover.
- [SDP-141](#) (F): hms: Replaced hard-coded master ServerID value with configured value.
- [SDP-142](#) (B): Fix p4verify.sh bug when -recent flag is used.

Released: Rev. SDP/MultiArch/2016.2/20995 (2016/11/07)

Jobs Fixed since change 20972 up to 20995 (F=Feature, B=Bug):

- [SDP-134](#) (B): p4verify.sh is currently broken - use of an unbounded variable (\$d); use of the -recent option fails as for verify -S you cannot specify a range (only @= is supported) ; stripping out archive,unload+remote depots also not working. get_verofy_rev_range used depot name incorrectly in changes
- [SDP-136](#) (B): Tweaked maint scripts to handle oddly named groups.
- [SDP-137](#) (F): Added new CN setting for /p4/common to test folder paths.

Released: Rev. SDP/MultiArch/2016.2/20972 (2016/11/01)

Jobs Fixed since change 20856 up to 20970 (F=Feature, B=Bug):

- [SDP-120](#) (F): Add -recent flag to p4verify.sh to verify recent changes.
- [SDP-126](#) (B): p4login.*.log files are not being cleaned up by the standard clean-up mechanism

(remove_old_logs in backup_function.sh).

- [SDP-127](#) (F): Allow for multiple depot volumes.
- [SDP-128](#) (B): Fixed missing LOGFILE variable issue in p4verify.sh.
- [SDP-129](#) (B): Fix formatting of logs to use simple HTML line breaks for Windows SDP.
- [SDP-130](#) (B): Various test suite improvements.
- [SDP-131](#) (B): fixed issue with broken def'n of P4PORT with multiple SSL prefixes.
- [SDP-132](#) (F): Enhanced two-factor auth mechanisms.
- [SDP-133](#) (F): Tweak to slightly reduce mkdirs.sh configuration.

Released: Rev. SDP/MultiArch/2016.2/20856 (2016/10/04)

Jobs Fixed since change 20805 up to 20856 (F=Feature, B=Bug):

- [SDP-121](#) (F): Enhanced logic to favor init scripts in /p4/N/bin over /etc/init.d.
- [SDP-122](#) (B): Fixed quoting bug in p4login.
- [SDP-123](#) (F): hms checks for cfg files in /p4/common/config.
- [SDP-124](#) (B): Fixed hms bug re: wrong master host discovered in failback testing

Released: Rev. SDP/MultiArch/2016.2/20805 (2016/10/02)

Jobs Fixed since change 20790 up to 20805 (F=Feature, B=Bug):

- [SDP-116](#) (B): Fixed ssh hang issues with hms scripts.
- [SDP-117](#) (F): Implemented global/central start stop.
- [SDP-118](#) (F): mkrep.sh: Added more replica types and journalcopy support.
- [SDP-119](#) (F): Implement checkauth feature in HMS broker_wrapper.

Released: Rev. SDP/MultiArch/2016.2/20790 (2016/09/30)

Jobs Fixed since change 20755 up to 20790 (F=Feature, B=Bug):

- [SDP-112](#) (B): Minor p4 login fix to show P4TICKETS output reliably.
- [SDP-113](#) (B): Fix mkrep.sh to use \$P4BIN instead of p4.
- [SDP-114](#) (F): Added basic p4login-super.sh script.
- [SDP-115](#) (B): Added hms dir to mkdirs.sh.

Released: Rev. SDP/MultiArch/2016.2/20755 (2016/09/29)

Jobs Fixed since change 20559 up to 20755 (F=Feature, B=Bug):

- [SDP-64](#) (F): Add option to install_sdp_python.sh to build P4Python with SSL.
- [SDP-103](#) (B): Fix attempted login count in p4login.
- [SDP-104](#) (B): Fixed order-of-operations issue that caused some log files to be lost on rotation.

- [SDP-105](#) (B): Cosmetic fix to broker init script with 'status all' run w/no config files.
- [SDP-106](#) (F): Add Helix Management System (HMS) files to SDP.
- [SDP-107](#) (F): Enhance p4login to avoid hang issue with auth.id set.
- [SDP-108](#) (F): Further test suite docker environment updates.
- [SDP-109](#) (F): Add Two Factor Authentication sample auth script.
- [SDP-110](#) (B): Correct crontab to run sync_replica.sh every day.
- [SDP-111](#) (B): Fix bugs in convert_label_to_autoreload.py.

Jobs Fixed since change 20491 up to 20559 (F=Feature, B=Bug):

- [SDP-100](#) (B): Fix recent regression with 'restart' option in init scripts.

Released: Rev. SDP/MultiArch/2016.1/20491 (2016/09/09)

Jobs Fixed since change 20460 up to 20491 (F=Feature, B=Bug):

- [SDP-99](#) (B): Fix special case env insulation bug running init scripts as root.

Released: Rev. SDP/MultiArch/2016.1/20460 (2016/09/08)

Jobs Fixed since change 20395 up to 20460 (F=Feature, B=Bug):

- [SDP-94](#) (B): Fixed a typo inserted in mkdirs.sh.
- [SDP-98](#) (B): chmod +x fix on some scripts.

Released: Rev. SDP/MultiArch/2016.1/20395 (2016/09/04)

Jobs Fixed between changelists 20387 and 20395 (F=Feature, B=Bug):

- [SDP-94](#) (B): Fixed a typo inserted in mkdirs.sh.

Released: Rev. SDP/MultiArch/2016.1/20387 (2016/09/04)

Jobs Fixed between changelists 20348 and 20387 (F=Feature, B=Bug):

- [SDP-89](#) (B): Fixed several issues in email.sh maint script.
- [SDP-92](#) (B): Fixed using with runRemoteCmd getting error if USER not defined in non-core SDP script.
- [SDP-93](#) (B): Removed references to legacy names for checkpoint scripts (non-functional change).

Jobs Fixed between changelists 20028 and 20348 (F=Feature, B=Bug):

- [SDP-64](#) (F): Add option to install_sdp_python.sh to build P4Python with SSL.
- [SDP-74](#) (F): Add p4sanity_check.sh script from Battle School.
- [SDP-75](#) (B): Fix missing echo of command into log file in p4verify.sh.
- [SDP-77](#) (F): Change adminspass to use hidden, and now instance-specific, password files

- [SDP-78](#) (F): Add mkrep script to simplify replica creation.
- [SDP-79](#) (F): Update p4verify.sh to verify shelves on master/replicas.
- [SDP-80](#) (F): Add script to convert labels to autoreload.
- [SDP-81](#) (F): Add Evil Twin Detector maintenance script.
- [SDP-85](#) (F): Add script to simplify adoption of OS-level best practices recommended by Support.
- [SDP-97](#) (B): Eliminate syntax error if user forgets start/stop/status arg; just display status.
- [SDP-88](#) (F): Use pid to shutdown p4d rather than 'p4 admin stop' to enhance reliability.

Released: Rev. SDP/MultiArch/2016.1/20028 (2016/08/03)

Jobs Fixed between changelists 19888 and 20028 (F=Feature, B=Bug):

- [SDP-67](#) (F): Defend against environment hijacking of P4ENVIRO.
- [SDP-72](#) (F): Revive external auth LDAP group mirror scripts.
- [SDP-69](#) (B): sdp_sync.sh v2.1.7: Fixed environment bug (missing defs), HMS support.
- [SDP-70](#) (F): Simplify login ticket handling for sophisticated topologies.
- [SDP-71](#) (F): Prevent cross-instance contamination if p4_vars is loaded multiple times.

Released: Rev. SDP/MultiArch/2016.1/19888 (2016/07/07)

Jobs Fixed between changelists 19838 and 19888 (F=Feature, B=Bug):

- [SDP-6](#) (B): SDP trigger breaks with Streams workspaces in P4V.
- [SDP-66](#) (B): Daily/weekly_backup can fail leaving lock file present requiring manual intervention
- [SDP-67](#) (F): Defend against environment hijacking of P4ENVIRO.

Released: Rev. SDP/MultiArch/2016.1/19838 (2016/06/26)

Jobs Fixed between changelists 19768 and 19838 (F=Feature, B=Bug):

- [SDP-6](#) (B): SDP triggers break with Streams workspaces in P4V.
- [SDP-65](#) (F): Add defense against known-misbehaving client versions.

Released: Rev. SDP/MultiArch/2016.1/19768 (2016/06/24)

Jobs Fixed between changelists 19661 and 19768 (F=Feature, B=Bug):

- [SDP-62](#) (F): Change to best-practice configurables; auth.autologinprompt=0.
- [SDP-63](#) (B): p4master_run operates incorrectly as root.

Released: Rev. SDP/MultiArch/2016.1/19661 (2016/06/08)

Jobs Fixed between changelists 19410 and 19661 (F=Feature, B=Bug):

- [SDP-59](#) (F): Add KEEPJNLS to allow keeping more jnls than ckps.

- [SDP-60](#) (F): Rename replica scripts to be consistent with earlier rename of checkpoint scripts.
- [SDP-61](#) (F): Enhance error checkong and logging replica handling scripts.
- [SDP-62](#) (F): Change to best-practice configurables; auth.autologinprompt=0.

Released: SDP/MultiArch/2016.1/19410 (2016/05/17)

Jobs Fixed between changelists 18958 and 19410:

- [SDP-50](#): Work with license check in P4D 2016.1.
- [SDP-51](#): Change p4verify.sh to use -S to verify shelves on a replica instead
- [SDP-52](#): Removed the HOST_IP settings from mkdirs and instance_vars since it
- [SDP-53](#): Dockerify SDP test suite.
- [SDP-54](#): Add replica cleanup script on Windows.
- [SDP-55](#): Get p4verify.sh to check SHARED DATA on replicas.
- [SDP-56](#): Avoid chmod on a replica if it shares data with the master.
- [SDP-57](#): Use 'p4 admin journal' on master to rotate journal.

Released: SDP/MultiArch/2016.1/18958 (2016/04/08)

Jobs Fixed between changelists 18619 and 18958:

- [SDP-39](#): Proxy status init script can show proxy is up when it is not.
- [SDP-41](#): Moved ckp_running.txt to LOGS dir.
- [SDP-42](#): Fix missing LOGFILE= in replica_cleanup.sh.
- [SDP-43](#): De-emphasized changeType=restricted.
- [SDP-44](#): Update Perl/P4Perl Python/P4Python
- [SDP-45](#): Support multiple broker configs.
- [SDP-46](#): Enhanced p4_vars.template to support non-p4d hosts.
- [SDP-47](#): SDP-ify P4DTG init script.
- [SDP-48](#): Enhanced p4deleteuser.py to check for shelves, double-deletes.

Released: SDP/MultiArch/2016.1/18619 (2016/03/10):

Jobs Fixed between changelists 17297 and 18619

- [SDP-30](#) on 2015/12/15 by ttyler **closed** 'Enhanced offline_db 'stale data'

Jobs Fixed between changelists 16784 and 17297:

- [SDP-32](#): Support \$MAILTO values with '#' char in gen_default_broker_cfg.sh.
- [SDP-34](#): sdp_sync.sh: Fix 'null crontab' bug.
- [SDP-35](#): p4d_base: When stopping p4d, send stderr to /dev/null.
- [SDP-36](#): global_replica_status.sh: Support instance-specific host config.

- [SDP-37](#): Support email addresses starting with '#'.

Released: SDP/MultiArch/2016.1/16784 (2016/01/12) * [SDP-31](#): Add documentation for sdp_sync.sh to SDP Guide. * [SDP-32](#): Support \$MAILTO values with '#' char in gen_default_broker_cfg.sh.