



Clear Ballot

ClearVote 2.1

ClearDesign System Identification Guide

ClearDesign System Identification Guide

Clear Ballot Part Number: 100074-10017

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Preface

This section defines the purpose of this document. It contains the following subsections.

- About this document
- Scope of this document
- Intended audience
- Contact us

About this document

This document enables election officials to verify the software files for the ClearDesign system.



A ClearVote® system can comprise the ClearAccess®, ClearAudit®, ClearCast®, ClearCount®, and ClearDesign® products. Jurisdictions are not required to purchase all products. You can ignore references to any ClearVote products that are not part of your voting system. Also ignore implementation options that are not relevant to your policies and procedures.

Scope of this document

This document contains the following chapters:

- [Verifying ClearDesign software](#)
- [Installed third-party software](#)

Intended audience

The document is for state and federal election officials and their voting system test laboratories as part of the Technical Data Package (TDP) required to certify the ClearVote system for use. This document is also used by Clear Ballot personnel who support election officials and staff.

Contact us

Clear Ballot Group welcomes your feedback on our documentation. Please send comments to Documentation@ClearBallot.com.

If you have questions about using your product, contact your Clear Ballot representative.

Chapter 1. Verifying ClearDesign software

After installing your ClearDesign software, you need to verify that the SHA-256 hash values of the installed software match those of the certified version. This process ensures that the contents of the software have not been changed by a third-party or altered by malware.

To verify the installed software:

1. At a DesignStation computer, log in to the ClearDesign system.
2. Insert a USB drive into one of the computer's available USB ports.



Clear Ballot recommends the use of encrypted USB drives. See the *ClearVote Approved Parts List* for approved devices.
3. Click the drop-down menu that appears at the top right of the screen next to your user name and select **About this software**. The About screen opens with the ClearDesign Product Files tab selected.
4. Click the **Copy** button to copy the contents of the ClearDesign Product Files tab.
5. From the Windows task bar, type *notepad* and select **Notepad** from the search results.
6. Paste the copied information into the Notepad window and save the file as a TXT file to the USB drive.
7. Close the About page and log out of the DesignStation computer.
8. Remove the USB drive from the DesignStation computer and insert it into another computer running Microsoft Windows.



Another computer is necessary because the ClearDesign hardening procedures prevent opening and viewing the file on the DesignStation computer.
9. Use a text or spreadsheet program, such as Notepad or Excel, to open and view the file.
10. Compare the hash values in the saved file to the hash values listed in the following table.
 - If the hash values match, the software is unmodified and matches the certified version.
 - If the hash values do not match, the software on the server does not match the certified version. The software has been modified, improperly installed, or is nonmatching for some other reason.
11. If any mismatch occurs, do one of the following:
 - Follow the jurisdictional procedures to resolve the discrepancy.
 - Contact Clear Ballot Technical Support for assistance.

1.1 Installed ClearDesign product files

The following table lists the file specification, timestamp and SHA-256 hash value for each of the Clear Ballot-authored files installed on the DesignServer.

File	Date	File Digest
/usr/share/cbg/clearDesign/libcrypto.so.1.0.0	12/18/2019 9:27	05b84e65fd92a95de8df987d9d5a16ec3483b9b916a1705b215ddb2e438d7ea2
/usr/share/cbg/clearDesign/libssl.so.1.0.0	12/18/2019 9:27	01ef66904769cebbf7d9dd676708dba320f6e8ce59979031ed253c7520494ad9
/usr/share/cbg/clearDesign/static/clearBallot/js/base.min.js	12/18/2019 9:27	b090802af8687cb19df6addd3ac7779d29a8ee695950053164129e8dec4bc707
/usr/share/cbg/clearDesign/static/clearBallot/js/paperController.min.js	12/18/2019 9:27	5d6ddfb3eabe47d2b93d4cf30b397f0bc237952f996303f0c242a3f496cf2168
/usr/share/cbg/clearDesign/clearDesign.conf	12/18/2019 9:27	58e877bf3e39ed7b72e030ee34b79aa949af9a1a187e80c7e26b7e2fcd8cad74
/usr/share/cbg/clearDesign/clearDesign.fcgi	12/18/2019 9:27	736fb19a1de98766f2e7d16a617e6e07ac565c36b3445ee4754bf267cc1cf841
/usr/share/cbg/clearDesign/install	12/18/2019 9:27	b304acc9be1d5cfb110cffd40736af84025b79ffd32ca49131504881b272a1a2
/usr/share/cbg/clearDesign/static/clearBallot/js/audioEditor.min.js	12/18/2019 9:27	6be61f18b864740966c1fd5bd3b90a1cdc0e84ad45dd6542cacb933d143959a4
/usr/share/cbg/clearDesign/static/clearBallot/js/ballotModel.min.js	12/18/2019 9:27	d9fc0f2a97be4b86b4986fe5010e08bc77553211d09433a25f11b35972e8b7a8

File	Date	File Digest
/usr/share/cbg/clearDesign/static/clearBallot/js/bkLayoutPaper.min.js	12/18/2019 9:27	7d255eb4b2d51dfdd305e09dc8b29a5759010387ee9da92e48b2638a8b2309f7
/usr/share/cbg/clearDesign/static/clearBallot/js/cbg.min.js	12/18/2019 9:27	4a4ea2d1b584568cad3042bcd24c26727756406080c3cfc88f42bb535a388640
/usr/share/cbg/clearDesign/static/clearBallot/js/digitalController.min.js	12/18/2019 9:27	d428dd2cca946bd5e07a346856197e7dab7c13a3a004ad5bad335c17037636f8
/usr/share/cbg/clearDesign/static/clearBallot/js/digitalLayout.min.js	12/18/2019 9:27	802f11656f62100e4ec428bb0b23cbfe221f5b9e6d3bc5fa1652000fc11c8910
/usr/share/cbg/clearDesign/static/clearBallot/js/digitalModel.min.js	12/18/2019 9:27	14ceb6cb74a66343979d01f757214a0edeb0a8beeea950c3a029e758525114fa
/usr/share/cbg/clearDesign/static/clearBallot/js/languageEditor.min.js	12/18/2019 9:27	9884401ffccf901a18bb3ce0f2cde25a2b81b5ca8caf8a4387753dc4bf2ee847
/usr/share/cbg/clearDesign/static/clearBallot/js/paperLayout.min.js	12/18/2019 9:27	fdf5c76437f7decacf03e01447dc226cabf682c0673d0bfc2e71607b871b1711
/usr/share/cbg/clearDesign/static/clearBallot/js/paperViewer.min.js	12/18/2019 9:27	56d669c5908a1168fc2f7388124ad29e29a29745be877fa0c030aca81815d99a
/usr/share/cbg/clearDesign/static/clearBallot/js/printPDF.min.js	12/18/2019 9:27	df2218ed8d0036fe58a675c0ab11bf6bbd60d382da2050fb65baf875b1b3e487
/usr/share/cbg/clearDesign/static/clearBallot/js/record.min.js	12/18/2019 9:27	3120557d8939205ca9152002e08bbf1422684182df7017e875ad35dbd6b793b5
/usr/share/cbg/clearDesign/static/clearBallot/js/sampleBallot.min.js	12/18/2019 9:27	f31e88c4dfe4b1297c8c43ad6a815904a4bf8c31f8aa1794e6c6e7e5f5da1b53
/usr/share/cbg/clearDesign/static/clearBallot/js/textEditor.min.js	12/18/2019 9:27	21634881ba88964a205b57baa76690cba149cdf34e761f547c6131c34961877

File	Date	File Digest
/usr/share/cbg/clearDesign/static/3rdParty/libmp3lame/libmp3lame.min.js	12/18/2019 9:25	30bf0d4203df9065ee5b18af7d667335efa215c286f7e728c1c529bf031df313
/usr/share/cbg/clearDesign/static/3rdParty/jszip/jszip.min.js	12/18/2019 9:25	570913eb0899c1751b8b66f804e4758b9870e375cccd5b0ff3c9297acbd161f5
/usr/share/cbg/clearDesign/static/3rdParty/jszip/LICENSE/LICENSE.markdown	12/18/2019 9:25	14450c78405ad2a2173e25740b56406556779149df9c4c83523a8c63d0686210
/usr/share/cbg/clearDesign/static/3rdParty/DataTables/js/buttons.bootstrap.min.js	12/18/2019 9:25	c366a71392cedf0d9735673f70a054baa6f9c25bf25dd37dd802a0722cf8685f
/usr/share/cbg/clearDesign/static/3rdParty/DataTables/js/buttons.colVis.js	12/18/2019 9:25	0dca4c8d40060444b7485a9a7b4ea22ab3a82eba827b8eb7f43b3c123cead3d6
/usr/share/cbg/clearDesign/static/3rdParty/DataTables/js/buttons.html5.js	12/18/2019 9:25	123beb805dc9a8eee95ff9bd51e44bd4eb7817cd1e4846da51fa9d1146c02dd1
/usr/share/cbg/clearDesign/static/3rdParty/DataTables/js/dataTables.bootstrap.min.js	12/18/2019 9:25	5ffe7cb3959b946300c3d4a90edaa757c74b44d09ac2cc86c0daa7643d097bfb
/usr/share/cbg/clearDesign/static/3rdParty/DataTables/js/dataTables.buttons.js	12/18/2019 9:25	779a92be15003e2826eda841d207d64c93a452aab22548c718d972e709b2c9f1
/usr/share/cbg/clearDesign/static/3rdParty/DataTables/js/jquery.dataTables.min.js	12/18/2019 9:25	a9c575c2bf9b9f836806dc58aa0866cb558806fc5ea1ef2f4250a8c0b1be7278
/usr/share/cbg/clearDesign/static/3rdParty/DataTables/js/jszip.min.js	12/18/2019 9:25	9e170a21bb67ccf7dcab122c726e72637105a45d893350afa9b7a38369a0c1fd
/usr/share/cbg/clearDesign/static/3rdParty/DataTables/js/natural.js	12/18/2019 9:25	3777f8ce46801dfd7cb89365467710f8f3d09f03dc20233cdad27f0d09038d86
/usr/share/cbg/clearDesign/static/3rdParty/DataTables/js/pdfmake.min.js	12/18/2019 9:25	70bc19eb6a5b08b6d910b3c9cfd4461ec6b08a3db91d4d73eea6026812b56675

File	Date	File Digest
/usr/share/cbg/clearDesign/static/3rdParty/DataTables/js/vfs_fonts.js	12/18/2019 9:25	1cce3ba25673d6843c91e6264b8510cbf132a5567c82915e9e9b8d7984226fe8
/usr/share/cbg/clearDesign/static/3rdParty/DataTables/css/buttons.bootstrap.min.css	12/18/2019 9:25	30b0bee385e1d7846bc61054c9d46259998a3ec8efa875ddb4b79760c9663cbe
/usr/share/cbg/clearDesign/static/3rdParty/DataTables/css/dataTables.bootstrap.min.css	12/18/2019 9:25	3db6982c169bf3afee084cf7762ba718c118be36a1dee0c5222203fa302d21fc
/usr/share/cbg/clearDesign/static/3rdParty/jquery-splitter/js/jquery.splitter.min.js	12/18/2019 9:25	19eea9ab31811fd9f10fae4625b39f6f18208e5add9582beb061194ddde9f4a0
/usr/share/cbg/clearDesign/static/3rdParty/jquery-splitter/css/jquery.splitter.min.css	12/18/2019 9:25	3d76586cd15aa0888b7a7cc986cde523deccbdd2730e53e5f296751ce0daef68
/usr/share/cbg/clearDesign/static/3rdParty/jquery-impromptu/LICENSE.txt	12/18/2019 9:25	88a6d51a87d98b805db3e83ccdb324a4547095eede78980f68e51fe1ab211aea
/usr/share/cbg/clearDesign/static/3rdParty/jquery-impromptu/jquery-impromptu.min.css	12/18/2019 9:25	80b3afaf83a26b397c901c086c6fa58235762852a73004b8ac8da6d82baad9c1
/usr/share/cbg/clearDesign/static/3rdParty/jquery-impromptu/jquery-impromptu.min.js	12/18/2019 9:25	bcfad844f6f43865cbd1756272a48a0290a4b5801d239dcff750fde8af743cb3
/usr/share/cbg/clearDesign/static/3rdParty/bootstrap/js/bootstrap.min.js	12/18/2019 9:25	54d21b0676784d0c983bbd4093898770adefa932d89b72c8afd88183a19172a7
/usr/share/cbg/clearDesign/static/3rdParty/bootstrap/fonts/glyphicons-halflings-regular.eot	12/18/2019 9:25	5ff7c239555476e939e86d457bb78424b945b733b2c23791d9807c2357259d43
/usr/share/cbg/clearDesign/static/3rdParty/bootstrap/fonts/glyphicons-halflings-regular.svg	12/18/2019 9:25	3a9760d706275d9ffe85a0042f3ee73f8425e3011cac1fa8a3c15a59e4053ffa
/usr/share/cbg/clearDesign/static/3rdParty/bootstrap/fonts/glyphicons-halflings-regular.ttf	12/18/2019 9:25	cb18b8d11f9698fc8cb3341cb5c882af1103ef8927d34e1602015b5f82eb234f

File	Date	File Digest
/usr/share/cbg/clearDesign/static/3rdParty/bootstrap/fonts/glyphicons-halflings-regular.woff	12/18/2019 9:25	71c12656535e99119c2a952c10554cd6f47c6923d2d96155a7833276e68992af
/usr/share/cbg/clearDesign/static/3rdParty/bootstrap/css/bootstrap.min.css	12/18/2019 9:25	1cbda21998b65e08a7e936114cabd7f7783d0f590dd6efdd58c7faa8b6e7b9aa
/usr/share/cbg/clearDesign/static/3rdParty/papaparse/License	12/18/2019 9:25	99aa68e4b42758b09828a46515f70369e5463458ab7a990189f641af2b8d9b4e
/usr/share/cbg/clearDesign/static/3rdParty/papaparse/papaparse.min.js	12/18/2019 9:25	5440e664a406223765e8f9ea9a1039cb4a0272aa5c24f166f2a3f5984381c076
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/license.txt	12/18/2019 9:25	5fda611b8191f00121f161a93e7399cdb71789dba923e8ed09b50a1f78d32c5e
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/tinymce.min.js	12/18/2019 9:25	cff3b319cabd853e4382ee1ba1cb8b2e3382dd10277326e7dc22f67c59e80546
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/themes/modern/theme.min.js	12/18/2019 9:25	e9df7f179110c89ab79b05d46e4ac3ab0aa3ddf0f485f8d78908a017f91a1c3b
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/skins/lightgray/content.inline.min.css	12/18/2019 9:25	43e21c510a750ab7e110099c715efaae56fcc343811a2514db896b0f0b3e3bdb
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/skins/lightgray/content.min.css	12/18/2019 9:25	d6add77c881d254c581e06a4339a1ff6fa27876e3c6adfbccf89273cc3ea502a
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/skins/lightgray/skin.ie7.min.css	12/18/2019 9:25	c069a6cad7aaac75ea007fa94e053c114f97b2daa69c2482d02d6b898e248120
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/skins/lightgray/skin.min.css	12/18/2019 9:25	8b74587f001304ca8f37a42f79b30168c8a579adf774122c58493596b5f51d0f
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/skins/lightgray/img/anchor.gif	12/18/2019 9:25	2861666fd107d278d4449970615136d06d7f746be9bb19072cf9c8f30e565e1e

File	Date	File Digest
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/skins/lightgray/img/loader.gif	12/18/2019 9:25	eb7cfd3d959b2e09c170f532e29f8b825f9bc770b2279fde58e595617753e244
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/skins/lightgray/img/object.gif	12/18/2019 9:25	e6a15e52bc4a17b085073ba8debd4708ead6ae3d4cbeb3880c65cb7afc489777
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/skins/lightgray/img/trans.gif	12/18/2019 9:25	9cf020d7c3bba7f5ab10cda54aabef934f906d4f9a3acf99e9e7dc6c98579635
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/skins/lightgray/fonts/tinymce-small.eot	12/18/2019 9:25	06978cb75d973f435cb4139d66b71387cdf819a421876fa42dcb0df2d1e2653c
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/skins/lightgray/fonts/tinymce-small.svg	12/18/2019 9:25	c44121def9cff9145faa04dd492791c15a291138cdeb0484132b6e1ed2bebeb0
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/skins/lightgray/fonts/tinymce-small.ttf	12/18/2019 9:25	d6382ba90b72e03282fa7c8113d59092106986f25067f1105553967e3d150e46
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/skins/lightgray/fonts/tinymce-small.woff	12/18/2019 9:25	1f1936e2da99a2a24249c40fbb7df227ef6aed5add32704b0bd82001c0307b5e
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/skins/lightgray/fonts/tinymce.eot	12/18/2019 9:25	12822566832f372fd362ed9589052de80980182c06f08015c9e96d10dd6ada7f
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/skins/lightgray/fonts/tinymce.svg	12/18/2019 9:25	b5bbb12471fec75e2e551f18c9e0a61012e550251cd7c2da839cdbc2af00d66e
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/skins/lightgray/fonts/tinymce.ttf	12/18/2019 9:25	e31d6b896a3cb5b2fdf83ec7dcc5c124f4b05ec99cdc35e351244f9aa94c6b0a
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/skins/lightgray/fonts/tinymce.woff	12/18/2019 9:25	912d15ddc7906a65c785512a5ae9bb23fd24919f805fccfda1e5668913628888
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/plugins/paste/plugin.min.js	12/18/2019 9:25	2850c57a34651b9058806238d543a5cd0c0a1713cf532cecafb665d9188073ad

File	Date	File Digest
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/plugins/fullscreen/plugin.min.js	12/18/2019 9:25	5dc326650c2e484752d560f7d893b252883ef19110da06b31e7181ce6b29e38b
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/plugins/code/plugin.min.js	12/18/2019 9:25	a04608a8563eceb80b5cf9a8b9180c058e5f249a5ebb4b63d345b468210d7c6a
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/plugins/table/plugin.min.js	12/18/2019 9:25	3e9d2c70942a20e3a93bb2fdbd3f4854a89f7639a9d102ba6b6d963dd0a94e4b
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/plugins/searchreplace/plugin.min.js	12/18/2019 9:25	1651e70c07711ac36800f6473ca6afa333f07a71efefddc8011bbfdbbb8e84e4
/usr/share/cbg/clearDesign/static/3rdParty/tinymce/plugins/textcolor/plugin.min.js	12/18/2019 9:25	4ffee04872b9eeb15408ec0e041ae7e4c4b36a4a370b6c298fc91815c7a5bc15
/usr/share/cbg/clearDesign/static/3rdParty/jquery-qrcode/MIT-LICENSE.txt	12/18/2019 9:25	4a792bac5ec29cf38a4d98ed588a305b6b5c26a8b4cc4f0337533dda0fec2856
/usr/share/cbg/clearDesign/static/3rdParty/jquery-qrcode/jquery.qrcode.min.js	12/18/2019 9:25	f4ccf02b69092819ac24575c717a080c3b6c6d6161f1b8d82bf0bb523075032d
/usr/share/cbg/clearDesign/static/3rdParty/jquery/LICENSE.txt	12/18/2019 9:25	f980a306a01e5881cc8004115f7e6dde44e7f5296477237d37d169a86ce7c094
/usr/share/cbg/clearDesign/static/3rdParty/jquery/js/jquery.min.js	12/18/2019 9:25	05b85d96f41fff14d8f608dad03ab71e2c1017c2da0914d7c59291bad7a54f8e
/usr/share/cbg/clearDesign/static/3rdParty/jscolor/arrow.gif	12/18/2019 9:25	096eb936bc9301c1c6fa86715eb306bec1b168dc5beb69b53cd4a81b9cb6a1a3
/usr/share/cbg/clearDesign/static/3rdParty/jscolor/cross.gif	12/18/2019 9:25	027d9c6711c32d0ca02e8b5c2831715b66923f0f6a0c4546a015b305658b13d0
/usr/share/cbg/clearDesign/static/3rdParty/jscolor/hs.png	12/18/2019 9:25	6607368e285a2bd53ae1632cc28fecbf718406716823d2e69802b9e0a1d9d7e8

File	Date	File Digest
/usr/share/cbg/clearDesign/static/3rdParty/jscolor/hv.png	12/18/2019 9:25	3883457013db9bfdecdbd7ae670c24bdfa171843a7fe94ab0484086adef4c8f2
/usr/share/cbg/clearDesign/static/3rdParty/jscolor/jscolor.js	12/18/2019 9:25	1b09f973faf4576d3f1bb32ab9628493f609e85ee8eb94fee25dc0cd01071aaf
/usr/share/cbg/clearDesign/static/3rdParty/jquery-ui/LICENSE.txt	12/18/2019 9:25	de33fb695880d0b07615d4b86f78cd43796906959ade5fdfe70968827a0db78
/usr/share/cbg/clearDesign/static/3rdParty/jquery-ui/js/jquery-ui.min.js	12/18/2019 9:25	28ce75d953678c4942df47a11707a15e3c756021cf89090e3e6aa7ad6b6971c3
/usr/share/cbg/clearDesign/static/clearBallot/css/digitalBallot.css	12/16/2019 13:07	e9ef468ad2b509c36f191baf1f977075aef96a91431a3cfb49dabb87b643c583
/usr/share/cbg/clearDesign/static/clearBallot/images/favicon.ico	11/18/2019 18:46	c3164bf5b672736c062451b5f90dabeb116afabb4bd3369a478a3e4192acc25f
/usr/share/cbg/clearDesign/static/clearBallot/css/base.css	11/18/2019 18:46	7e2980ae3971c10db322b1881f21bcfadf0d6f0c06760422147353912ee33ff
/usr/share/cbg/clearDesign/static/clearBallot/css/fonts.css	11/18/2019 18:46	39c2c0b4a4ee34f048e355f02817a5a8be19ea3d5c10d1691f2c120a32baa951
/usr/share/cbg/clearDesign/static/clearBallot/css/languageEditor.css	11/18/2019 18:46	3258067366d1fa24684cb9a17395d94846b6e205058b2877c7ac3d8f194575b5

File	Date	File Digest
/usr/share/cbg/clearDesign/static/clearBallot/css/paperBallot.css	11/18/2019 18:46	60956ceab601c04b415192c3ffef66e25743df434d9e1df581b094ce3e873f3a
/usr/share/cbg/clearDesign/static/clearBallot/css/paperBallot_access.css	11/18/2019 18:46	2f9fcc260f5dc42caf251402f24b502e3a9146561d4252dcf719d2cee896a19f
/usr/share/cbg/clearDesign/static/clearBallot/css/print.css	11/18/2019 18:46	9bc3598de813952b5d7fa708f0484af153179e9672143f0fac5005ef83a0c9d2
/usr/share/cbg/clearDesign/static/clearBallot/css/report.css	11/18/2019 18:46	a62a8065c509a4940dec9e9c0c424628e38b7e212e2726bae94fef1da456e058
/usr/share/cbg/clearDesign/static/clearBallot/css/sampleBallot.css	11/18/2019 18:46	7a88b1c012c3e207f16a6381824606cc6906d7df74887384e03819ad313ba1f1
/usr/share/cbg/clearDesign/static/clearBallot/css/signin.css	11/18/2019 18:46	e7d6891664b3509aa48d2ab5dfa7601d86c78f3fa2780b353e17fd5515022d16
/usr/share/cbg/clearDesign/static/clearBallot/css/tinymce.css	11/18/2019 18:46	a10a514e880d21bfe04d999d183e1c1274634aa4c4ad08543563dd76d667874b
/usr/share/cbg/clearDesign/static/clearBallot/css/tinymce_Candidate.css	11/18/2019 18:46	da2eb116957ef2eb6b155fe3913ccf717b8eb837be550711f26e6603d86722a2

File	Date	File Digest
/usr/share/cbg/clearDesign/static/clearBallot/css/tinymce_Contest.css	11/18/2019 18:46	b502f91da135a712c68385f7ff00626efc69cf237c0feb2eb2ba59855749fe03
/usr/share/cbg/clearDesign/static/clearBallot/css/tinymce_Header.css	11/18/2019 18:46	15a61a7f103563f3fadb5e91ffe5817161620aae23effd9b568677a96b71e760
/usr/share/cbg/clearDesign/static/clearBallot/css/tinymce_VoterGroup.css	11/18/2019 18:46	6b161e9bf2d6b6dd33c9eb0187a600477abd3994b01220b1baf54c144abc2c11
/usr/share/cbg/clearDesign/static/clearBallot/css/fonts/OFL.txt	11/18/2019 18:46	3581e0d8b5cd5831d0378100c8cf52040201566c40d60ea93445fc35465f2e34
/usr/share/cbg/clearDesign/static/clearBallot/images/navigator.png	4/5/2019 13:50	bb83a86a480c7c7e016741da59592daad2e40a3a0d664e31a99e68ca3876195f
/usr/share/cbg/clearDesign/static/clearBallot/css/fonts/NotoSans-Bold.ttf	4/5/2019 13:50	6c9841ae63e266b77ee79820d62095a244d2e76d638b8a45ba3cb2c23f3e1932
/usr/share/cbg/clearDesign/static/clearBallot/css/fonts/NotoSans-Regular.ttf	4/5/2019 13:50	a52fdd375fb885e6ac21471b34e26e5cb6e58f1fa944519bff08d4400605bfed
/usr/share/cbg/clearDesign/static/clearBallot/css/fonts/NotoSansCJKtc-Regular.otf	4/5/2019 13:50	f57e46120a3dd025ac993801981849622405d1359b32093b1f046490f7885711
/usr/share/cbg/clearDesign/static/clearBallot/css/fonts/NotoSansExtended-Bold.ttf	4/5/2019 13:50	db96d6e57a0efb09085bf3206ac5dc198d49c5d36795b8e5b63b9f73876973cd
/usr/share/cbg/clearDesign/static/clearBallot/css/fonts/NotoSansExtended-Regular.ttf	4/5/2019 13:50	97772692398cc0a7905de598e26c9580c5a21dc5af48a0885f3b9ab5adc5cc87

File	Date	File Digest
/usr/share/cbg/clearDesign/static/clearBallot/css/fonts/NotoSerif-Bold.ttf	4/5/2019 13:50	0d2e63318c3b0afefa01ac732e83f55e611b523a4ceb932271730cfe2ccb5ed0
/usr/share/cbg/clearDesign/static/clearBallot/css/fonts/NotoSerif-Regular.ttf	4/5/2019 13:50	7bdc77de06e1bf1bf565c3c330c0d1a84eccc5acc4f3ffc436214ce68b987deb
/usr/share/cbg/clearDesign/static/clearBallot/css/fonts/SourceCodePro-Bold.ttf	4/5/2019 13:50	72f35788b9ed009b4f2e9c947447e6b31fbdd00bb8d583e5675660a0e2bc40dd
/usr/share/cbg/clearDesign/static/clearBallot/css/fonts/SourceCodePro-Regular.ttf	4/5/2019 13:50	ef6ea62b6849bc1535aae941d32de8d7b3ad14eab87d681dd237d125e36aebec
/usr/share/cbg/clearDesign/static/clearBallot/images/ClearDesign.png	11/20/2018 11:34	def5e9879215e36d654af1496515ba7719b481776d59e9a7949254e32bd57486
/usr/share/cbg/clearDesign/static/clearBallot/library/images/Filled oval.png	11/20/2018 11:34	deda9a3603eee2ab5cc558442fe60c9400a198a3050c44c5e9fac15dc6ef87f8

Chapter 2. Installed third-party software

The following software is installed on the ClearDesign system. Clear Ballot does *not* modify any of the listed third-party software.

Package	Version	Description
accountsservice	0.6.45-1ubuntu1	query and manipulate user account information
acl	2.2.52-3build1	Access control list utilities
acpid	1:2.0.28-1ubuntu1	Advanced Configuration and Power Interface event daemon
adduser	3.116ubuntu1	add and remove users and groups
adwaita-icon-theme	3.28.0-1ubuntu1	default icon theme of GNOME (small subset)
apache2-bin	2.4.18-2ubuntu3.10	Apache HTTP Server (modules and other binary files)
apache2-data	2.4.18-2ubuntu3.10	Apache HTTP Server (common files)
apache2-utils	2.4.18-2ubuntu3.10	Apache HTTP Server (utility programs for web servers)
apache2	2.4.18-2ubuntu3.10	Apache HTTP Server
apparmor	2.12-4ubuntu5	user-space parser utility for AppArmor
apport-symptoms	0.2	symptom scripts for apport
apt	1.6.1	commandline package manager
apt-utils	1.6.1	package management related utility programs
aptitude	0.8.10-6ubuntu1	terminal-based package manager
aptitude-common	0.8.10-6ubuntu1	architecture independent files for the aptitude package manager
at	3.1.20-3.1ubuntu2	Delayed job execution and batch processing



Package	Version	Description
at-spi2-core	2.28.0-1	Assistive Technology Service Provider Interface (dbus core)
attr	1:2.4.47-2build1	Utilities for manipulating filesystem extended attributes
auditd	1:2.8.2-1ubuntu1	User space tools for security auditing
avahi-daemon	0.7-3.1ubuntu1.2	Avahi mDNS/DNS-SD daemon
base-files	10.1ubuntu2	Debian base system miscellaneous files
base-passwd	3.5.44	Debian base system master password and group files
bash	4.4.18-2ubuntu1	GNU Bourne Again SHell
bash-completion	1:2.8-1ubuntu1	programmable completion for the bash shell
bc	1.07.1-2	GNU bc arbitrary precision calculator language
bcache-tools	1.0.8-2build1	bcache userspace tools
bind9-host	1:9.11.3+dfsg-1ubuntu1	DNS lookup utility (deprecated)
bsdmainutils	11.1.2ubuntu1	collection of more utilities from FreeBSD
bsdutils	1:2.31.1-0.4ubuntu3	basic utilities from 4.4BSD-Lite
btrfs-progs	4.15.1-1build1	Checksumming Copy on Write Filesystem utilities
btrfs-tools	4.15.1-1build1	transitional dummy package
busybox-initramfs	1:1.27.2-2ubuntu3	Standalone shell setup for initramfs
busybox-static	1:1.27.2-2ubuntu3	Standalone rescue shell with tons of builtin utilities
byobu	5.125-0ubuntu1	"text window manager, shell multiplexer, integrated DevOps environment"
bzip2	1.0.6-8.1	high-quality block-sorting file compressor - utilities

Package	Version	Description
ca-certificates	20180409	Common CA certificates
cloud-guest-utils	0.30-0ubuntu5	cloud guest utilities
cloud-initramfs-copymods	0.40ubuntu1	copy initramfs modules into root filesystem for later use
cloud-initramfs-dyn-netconf	0.40ubuntu1	write a network interface file in /run for BOOTIF
command-not-found	18.04.4	Suggest installation of packages in interactive bash sessions
command-not-found-data	18.04.4	Set of data files for command-not-found.
console-setup	1.178ubuntu2	console font and keymap setup program
console-setup-linux	1.178ubuntu2	Linux specific part of console-setup
coreutils	8.28-1ubuntu1	GNU core utilities
cpio	2.12+dfsg-6	GNU cpio -- a program to manage archives of files
crda	3.18-1build1	wireless Central Regulatory Domain Agent
cron	3.0pl1-128.1ubuntu1	process scheduling daemon
cryptsetup	2:2.0.2-1ubuntu1	disk encryption support - startup scripts
cryptsetup-bin	2:2.0.2-1ubuntu1	disk encryption support - command line tools
curl	7.58.0-2ubuntu3	command line tool for transferring data with URL syntax
dash	0.5.8-2.10	POSIX-compliant shell
dbus	1.12.2-1ubuntu1	simple interprocess messaging system (daemon and utilities)
dconf-gsettings-backend	0.26.0-2ubuntu3	simple configuration storage system - GSettings back-end
dconf-service	0.26.0-2ubuntu3	simple configuration storage system - D-Bus service

Package	Version	Description
debconf	1.5.66	Debian configuration management system
debconf-i18n	1.5.66	full internationalization support for debconf
debianutils	4.8.4	Miscellaneous utilities specific to Debian
diffutils	1:3.6-1	File comparison utilities
dirmngr	2.2.4-1ubuntu1	GNU privacy guard - network certificate management service
distro-info-data	0.37	information about the distributions' releases (data files)
dmeventd	2:1.02.145-4.1ubuntu3	Linux Kernel Device Mapper event daemon
dmidecode	3.1-1	SMBIOS/DMI table decoder
dmsetup	2:1.02.145-4.1ubuntu3	Linux Kernel Device Mapper userspace library
dns-root-data	2018013001	DNS root data including root zone and DNSSEC key
dnsmasq-base	2.79-1	Small caching DNS proxy and DHCP/TFTP server
dnsutils	1:9.11.3+dfsg-1ubuntu1	Clients provided with BIND
dosfstools	4.1-1	utilities for making and checking MS-DOS FAT filesystems
dpkg	1.19.0.5ubuntu2	Debian package management system
e2fsprogs	1.44.1-1	ext2/ext3/ext4 file system utilities
ebtables	2.0.10.4-3.5ubuntu2	Ethernet bridge frame table administration
ed	1.10-2.1	classic UNIX line editor
efibootmgr	15-1	Interact with the EFI Boot Manager
eject	2.1.5+deb1+cvs20081104-13.2	ejects CDs and operates CD-Changers under Linux

Package	Version	Description
ethtool	1:4.15-0ubuntu1	display or change Ethernet device settings
fdisk	2.31.1-0.4ubuntu3	collection of partitioning utilities
file	1:5.32-2	"Recognize the type of data in a file using ""magic"" numbers"
findutils	4.6.0+git+20170828-2	"utilities for finding files--find, xargs"
fontconfig	2.12.6-0ubuntu2	generic font configuration library - support binaries
fontconfig-config	2.12.6-0ubuntu2	generic font configuration library - configuration
fonts-dejavu-core	2.37-1	Vera font family derivate with additional characters
fonts-ubuntu-console	0.83-2	console version of the Ubuntu Mono font
friendly-recovery	0.2.38	Make recovery boot mode more user-friendly
ftp	0.17-34	classical file transfer client
fuse	2.9.7-1ubuntu1	Filesystem in Userspace
gawk	1:4.1.4+dfsg-1build1	"GNU awk, a pattern scanning and processing language"
gcc-8-base	8-20180414-1ubuntu2	"GCC, the GNU Compiler Collection (base package)"
geoclue-2.0	2.4.7-1ubuntu1	geoinformation service
geoip-database	20180315-1	IP lookup command line tools that use the GeoIP library (country database)
gettext-base	0.19.8.1-6	GNU Internationalization utilities for the base system
gir1.2-glib-2.0	1.56.1-1	"Introspection data for GLib, GObject, Gio and GModule"
git	1:2.17.0-1ubuntu1	"fast, scalable, distributed revision control system"
git-man	1:2.17.0-1ubuntu1	"fast, scalable, distributed revision control system (manual pages)"

Package	Version	Description
glib-networking	2.56.0-1	network-related giommodules for GLib
glib-networking-common	2.56.0-1	network-related giommodules for GLib - data files
glib-networking-services	2.56.0-1	network-related giommodules for GLib - D-Bus services
gnupg	2.2.4-1ubuntu1	GNU privacy guard - a free PGP replacement
gnupg-l10n	2.2.4-1ubuntu1	GNU privacy guard - localization files
gnupg-utils	2.2.4-1ubuntu1	GNU privacy guard - utility programs
gpg	2.2.4-1ubuntu1	GNU Privacy Guard -- minimalist public key operations
gpg-agent	2.2.4-1ubuntu1	GNU privacy guard - cryptographic agent
gpg-wks-client	2.2.4-1ubuntu1	GNU privacy guard - Web Key Service client
gpg-wks-server	2.2.4-1ubuntu1	GNU privacy guard - Web Key Service server
gpgconf	2.2.4-1ubuntu1	GNU privacy guard - core configuration utilities
gpgsm	2.2.4-1ubuntu1	GNU privacy guard - S/MIME version
gpgv	2.2.4-1ubuntu1	GNU privacy guard - signature verification tool
grep	3.1-2	"GNU grep, egrep and fgrep"
groff-base	1.22.3-10	GNU troff text-formatting system (base system components)
grub2-common	2.02-2ubuntu8	GRand Unified Bootloader (common files for version 2)
grub-common	2.02-2ubuntu8	GRand Unified Bootloader (common files)
grub-efi-amd64-bin	2.02-2ubuntu8	"GRand Unified Bootloader, version 2 (EFI-AMD64 binaries)"
grub-efi-amd64-signed	1.93+2.02-2ubuntu8	"GRand Unified Bootloader, version 2 (EFI-AMD64 version, signed)"

Package	Version	Description
grub-efi-amd64	2.02-2ubuntu8	"GRand Unified Bootloader, version 2 (EFI-AMD64 version)"
grub-legacy-ec2	1:01	Handles update-grub for ec2 instances
gsettings-desktop-schemas	3.28.0-1ubuntu1	GSettings desktop-wide schemas
gststreamer1.0-plugins-base	1.14.1-1ubuntu1~ubuntu18.04.2	"GStreamer plugins from the ""base"" set"
gtk-update-icon-cache	3.22.30-1ubuntu3	icon theme caching utility
gzip	1.6-5ubuntu1	GNU compression utilities
hdparm	9.54+ds-1	tune hard disk parameters for high performance
hicolor-icon-theme	0.17-2	default fallback theme for FreeDesktop.org icon themes
hostname	3.2	utility to set/show the host name or domain name
htop	2.1.0-3	interactive processes viewer
humanity-icon-theme	0.6.15	Humanity Icon theme
ibverbs-providers	17.1-1ubuntu0.1	User space provider drivers for libibverbs
iio-sensor-proxy	2.4-2	IIO sensors to D-Bus proxy
info	6.5.0.dfsg.1-2	Standalone GNU Info documentation browser
init	1.51	metapackage ensuring an init system is installed
init-system-helpers	1.51	helper tools for all init systems
initramfs-tools	0.130ubuntu3	generic modular initramfs generator (automation)
initramfs-tools-bin	0.130ubuntu3	binaries used by initramfs-tools
initramfs-tools-core	0.130ubuntu3	generic modular initramfs generator (core tools)

Package	Version	Description
install-info	6.5.0.dfsg.1-2	Manage installed documentation in info format
installation-report	2.62ubuntu1	system installation report
iproute2	4.15.0-2ubuntu1	networking and traffic control tools
iptables	1.6.1-2ubuntu2	administration tools for packet filtering and NAT
iputils-ping	3:20161105-1ubuntu2	Tools to test the reachability of network hosts
iputils-tracepath	3:20161105-1ubuntu2	Tools to trace the network path to a remote host
irqbalance	1.3.0-0.1	Daemon to balance interrupts for SMP systems
isc-dhcp-client	4.3.5-3ubuntu7	DHCP client for automatically obtaining an IP address
isc-dhcp-common	4.3.5-3ubuntu7	common manpages relevant to all of the isc-dhcp packages
iso-codes	3.79-1	"ISO language, territory, currency, script codes and their translations"
iw	4.14-0.1	tool for configuring Linux wireless devices
kbd	2.0.4-2ubuntu1	Linux console font and keytable utilities
keyboard-configuration	1.178ubuntu2	system-wide keyboard preferences
klibc-utils	2.0.4-9ubuntu2	small utilities built with klibc for early boot
kmod	24-1ubuntu3	tools for managing Linux kernel modules
krb5-locales	1.16-2build1	internationalization support for MIT Kerberos
landscape-common	18.01-0ubuntu3	Landscape administration system client - Common files
language-selector-common	0.188	Language selector for Ubuntu
laptop-detect	0.16	system chassis type checker

Package	Version	Description
less	487-0.1	pager program similar to more
libaccountsservice0	0.6.45-1ubuntu1	query and manipulate user account information - shared libraries
libacl1	2.2.52-3build1	Access control list shared library
libaio1	0.3.110-5ubuntu0.1	Linux kernel AIO access library - shared library
libapache2-mod-fcgid	1:2.3.9-1	FastCGI interface module for Apache 2
libapparmor1	2.12-4ubuntu5	changehat AppArmor library
libapr1	1.6.3-2	Apache Portable Runtime Library
libaprutil1-dbd-sqlite3	1.6.1-2	Apache Portable Runtime Utility Library - SQLite3 Driver
libaprutil1-ldap	1.6.1-2	Apache Portable Runtime Utility Library - LDAP Driver
libaprutil1	1.6.1-2	Apache Portable Runtime Utility Library
libapt-inst2.0	1.6.1	deb package format runtime library
libapt-pkg5.0	1.6.1	package management runtime library
libargon2-0	0~20161029-1.1	memory-hard hashing function - runtime library
libasn1-8-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - ASN.1 library
libassuan0	2.5.1-2	IPC library for the GnuPG components
libatk1.0-0	2.28.1-1	ATK accessibility toolkit
libatk1.0-data	2.28.1-1	Common files for the ATK accessibility toolkit
libatk-bridge2.0-0	2.26.2-1	AT-SPI 2 toolkit bridge - shared library
libatm1	1:2.5.1-2build1	shared library for ATM (Asynchronous Transfer Mode)

Package	Version	Description
libatspi2.0-0	2.28.0-1	Assistive Technology Service Provider Interface - shared library
libattr1	1:2.4.47-2build1	Extended attribute shared library
libaudit-common	1:2.8.2-1ubuntu1	Dynamic library for security auditing - common files
libaudit1	1:2.8.2-1ubuntu1	Dynamic library for security auditing
libauparse0	1:2.8.2-1ubuntu1	Dynamic library for parsing security auditing
libavahi-client3	0.7-3.1ubuntu1.2	Avahi client library
libavahi-common-data	0.7-3.1ubuntu1.2	Avahi common data files
libavahi-common3	0.7-3.1ubuntu1.2	Avahi common library
libavahi-core7	0.7-3.1ubuntu1.2	Avahi's embeddable mDNS/DNS-SD library
libavahi-glib1	0.7-3.1ubuntu1.2	Avahi GLib integration library
libbind9-160	1:9.11.3+dfsg-1ubuntu1	BIND9 Shared Library used by BIND
libblkid1	2.31.1-0.4ubuntu3	block device ID library
libboost-filesystem1.65.1	1.65.1+dfsg-0ubuntu5	"filesystem operations (portable paths, iteration over directories, etc) in C++"
libboost-iostreams1.65.1	1.65.1+dfsg-0ubuntu5	Boost.iostreams Library
libboost-system1.65.1	1.65.1+dfsg-0ubuntu5	Operating system (e.g. diagnostics support) library
libbrotli1	1.0.3-1ubuntu1.2	library implementing brotli encoder and decoder (shared libraries)
libbsd0	0.8.7-1	utility functions from BSD systems - shared library
libbz2-1.0	1.0.6-8.1	high-quality block-sorting file compressor library - runtime

Package	Version	Description
libc-bin	2.27-3ubuntu1	GNU C Library: Binaries
libc6	2.27-3ubuntu1	GNU C Library: Shared libraries
libcairo-gobject2	1.15.10-2ubuntu0.1	Cairo 2D vector graphics library (GObject library)
libcairo2	1.15.10-2ubuntu0.1	Cairo 2D vector graphics library
libcap2-bin	1:2.25-1.2	POSIX 1003.1e capabilities (utilities)
libcap-ng0	0.7.7-3.1	An alternate POSIX capabilities library
libcap2	1:2.25-1.2	POSIX 1003.1e capabilities (library)
libcdparanoia0	3.10.2+debian-13	audio extraction tool for sampling CDs (library)
libcephfs2	12.2.11-0ubuntu0.18.04.2	Ceph distributed file system client library
libcgi-fast-perl	1:2.13-1	CGI subclass for work with FCGI
libcgi-pm-perl	4.38-1	module for Common Gateway Interface applications
libclass-accessor-perl	0.51-1	Perl module that automatically generates accessors
libcolord2	1.3.3-2build1	system service to manage device colour profiles -- runtime
libcom-err2	1.44.1-1	common error description library
libcroco3	0.6.12-2	Cascading Style Sheet (CSS) parsing and manipulation toolkit
libcryptsetup12	2:2.0.2-1ubuntu1	disk encryption support - shared library
libcups2	2.2.7-1ubuntu2.6	Common UNIX Printing System(tm) - Core library
libcurl3-gnutls	7.58.0-2ubuntu3	easy-to-use client-side URL transfer library (GnuTLS flavour)
libcurl4	7.58.0-2ubuntu3	easy-to-use client-side URL transfer library (OpenSSL flavour)

Package	Version	Description
libcwidget3v5	0.5.17-7	high-level terminal interface library for C++ (runtime files)
libdaemon0	0.14-6	lightweight C library for daemons - runtime library
libdatrie1	0.2.10-7	Double-array trie library
libdb5.3	5.3.28-13.1ubuntu1	Berkeley v5.3 Database Libraries [runtime]
libdbus-1-3	1.12.2-1ubuntu1	simple interprocess messaging system (library)
libdconf1	0.26.0-2ubuntu3	simple configuration storage system - runtime library
libdebconfclient0	0.213ubuntu1	Debian Configuration Management System (C-implementation library)
libdevmapper-event1.02.1	2:1.02.145-4.1ubuntu3	Linux Kernel Device Mapper event support library
libdevmapper1.02.1	2:1.02.145-4.1ubuntu3	Linux Kernel Device Mapper userspace library
libdns-export1100	1:9.11.3+dfsg-1ubuntu1	Exported DNS Shared Library
libdns1100	1:9.11.3+dfsg-1ubuntu1	DNS Shared Library used by BIND
libdouble-conversion1	2.0.1-4ubuntu1	routines to convert IEEE floats to and from strings
libdrm-amdgpu1	2.4.95-1~18.04.1	Userspace interface to amdgpu-specific kernel DRM services -- runtime
libdrm-common	2.4.91-2	Userspace interface to kernel DRM services -- common files
libdrm-intel1	2.4.95-1~18.04.1	Userspace interface to intel-specific kernel DRM services -- runtime
libdrm-nouveau2	2.4.95-1~18.04.1	Userspace interface to nouveau-specific kernel DRM services -- runtime
libdrm-radeon1	2.4.95-1~18.04.1	Userspace interface to radeon-specific kernel DRM services -- runtime
libdrm2	2.4.91-2	Userspace interface to kernel DRM services -- runtime
libdumbnet1	1.12-7build1	"dumb, portable networking library -- shared library"

Package	Version	Description
libedit2	3.1-20170329-1	BSD editline and history libraries
libefiboot1	34-1	Library to manage UEFI variables
libefivar1	34-1	Library to manage UEFI variables
libegl-mesa0	18.2.8-0ubuntu0~18.04.2	free implementation of the EGL API -- Mesa vendor library
libegl1	1.0.0-2ubuntu2.3	Vendor neutral GL dispatch library -- EGL support
libelf1	0.170-0.4	library to read and write ELF files
libencode-locale-perl	1.05-1	utility to determine the locale encoding
libepoxy0	1.4.3-1	OpenGL function pointer management library
liberror-perl	0.17025-1	Perl module for error/exception handling in an OO-ish way
libestr0	0.1.10-2.1	Helper functions for handling strings (lib)
libevdev2	1.5.8+dfsg-1	wrapper library for evdev devices
libevent-2.1-6	2.1.8-stable-4build1	Asynchronous event notification library
libevent-core-2.1-6	2.1.8-stable-4build1	Asynchronous event notification library (core)
libexpat1	2.2.5-3	XML parsing C library - runtime library
libext2fs2	1.44.1-1	ext2/ext3/ext4 file system libraries
libfastjson4	0.99.8-2	fast json library for C
libfcgi-perl	0.78-2build1	helper module for FastCGI
libfdisk1	2.31.1-0.4ubuntu3	fdisk partitioning library
libffi6	3.2.1-8	Foreign Function Interface library runtime

Package	Version	Description
libfontconfig1	2.12.6-0ubuntu2	generic font configuration library - runtime
libfreetype6	2.8.1-2ubuntu2	"FreeType 2 font engine, shared library files"
libfribidi0	0.19.7-2	Free Implementation of the Unicode BiDi algorithm
libfuse2	2.9.7-1ubuntu1	Filesystem in Userspace (library)
libgbm1	18.2.8-0ubuntu0~18.04.2	generic buffer management API -- runtime
libgcc1	1:8-20180414-1ubuntu2	GCC support library
libgcrypt20	1.8.1-4ubuntu1	LGPL Crypto library - runtime library
libgdbm-compat4	1.14.1-6	GNU dbm database routines (legacy support runtime version)
libgdbm5	1.14.1-6	GNU dbm database routines (runtime version)
libgdk-pixbuf2.0-0	2.36.11-2	GDK Pixbuf library
libgdk-pixbuf2.0-bin	2.36.11-2	GDK Pixbuf library (thumbnailer)
libgdk-pixbuf2.0-common	2.36.11-2	GDK Pixbuf library - data files
libgeoclue-2-0	2.4.7-1ubuntu1	convenience library to interact with geoinformation service
libgeoip1	1.6.12-1	non-DNS IP-to-country resolver library
libgirepository-1.0-1	1.56.1-1	Library for handling GObject introspection data (runtime library)
libgl1-mesa-dri	18.2.8-0ubuntu0~18.04.2	free implementation of the OpenGL API -- DRI modules
libgl1-mesa-glx	18.2.8-0ubuntu0~18.04.2	transitional dummy package
libgl1	1.0.0-2ubuntu2.3	Vendor neutral GL dispatch library -- legacy GL support
libglapi-mesa	18.2.8-0ubuntu0~18.04.2	free implementation of the GL API -- shared library

Package	Version	Description
libglb2.0-0	2.56.1-2ubuntu1	GLib library of C routines
libglb2.0-data	2.56.1-2ubuntu1	Common files for GLib library
libglvnd0	1.0.0-2ubuntu2.3	Vendor neutral GL dispatch library
libglx-mesa0	18.2.8-0ubuntu0~18.04.2	free implementation of the OpenGL API -- GLX vendor library
libglx0	1.0.0-2ubuntu2.3	Vendor neutral GL dispatch library -- GLX support
libgmp10	2:6.1.2+dfsg-2	Multiprecision arithmetic library
libgnutls30	3.5.18-1ubuntu1	GNU TLS library - main runtime library
libgpg-error0	1.27-6	library for common error values and messages in GnuPG components
libgpgme11	1.10.0-1ubuntu2	GPGME - GnuPG Made Easy (library)
libgpm2	1.20.7-5	General Purpose Mouse - shared library
libgraphite2-3	1.3.11-2	Font rendering engine for Complex Scripts -- library
libgssapi3-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - GSSAPI support library
libgssapi-krb5-2	1.16-2build1	MIT Kerberos runtime libraries - krb5 GSS-API Mechanism
libgstreamer1.0-0	1.14.1-1~ubuntu18.04.2	Core GStreamer libraries and elements
libgstreamer-plugins-base1.0-0	1.14.1-1ubuntu1~ubuntu18.04.2	"GStreamer libraries from the ""base"" set"
libgtk-3-0	3.22.30-1ubuntu3	GTK+ graphical user interface library
libgtk-3-bin	3.22.30-1ubuntu3	programs for the GTK+ graphical user interface library
libgtk-3-common	3.22.30-1ubuntu3	common files for the GTK+ graphical user interface library
libgudev-1.0-0	1:232-2	GObject-based wrapper library for libudev

Package	Version	Description
libharfbuzz0b	1.7.2-1ubuntu1	OpenType text shaping engine (shared library)
libhcrypto4-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - crypto library
libheimbase1-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - Base library
libheimntlm0-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - NTLM support library
libhogweed4	3.4-1	low level cryptographic library (public-key cryptos)
libhtml-parser-perl	3.72-3build1	collection of modules that parse HTML text documents
libhtml-tagset-perl	3.20-3	Data tables pertaining to HTML
libhtml-template-perl	2.97-1	module for using HTML templates with Perl
libhttp-date-perl	6.02-1	module of date conversion routines
libhttp-message-perl	6.14-1	perl interface to HTTP style messages
libhx509-5-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - X509 support library
libhyphen0	2.8.8-5	ALTLinux hyphenation library - shared library
libibverbs1	17.1-1ubuntu0.1	Library for direct userspace use of RDMA (InfiniBand/iWARP)
libice6	2:1.0.9-2	X11 Inter-Client Exchange library
libicu60	60.2-3ubuntu3	International Components for Unicode
libidn2-0	2.0.4-1.1build2	Internationalized domain names (IDNA2008/TR46) library
libidn11	1.33-2.1ubuntu1	"GNU Libidn library, implementation of IETF IDN specifications"
libinput-bin	1.10.4-1	input device management and event handling library - udev quirks
libinput10	1.10.4-1	input device management and event handling library - shared library

Package	Version	Description
libio-html-perl	1.001-1	open an HTML file with automatic charset detection
libio-string-perl	1.08-3	Emulate IO::File interface for in-core strings
libip4tc0	1.6.1-2ubuntu2	netfilter libip4tc library
libip6tc0	1.6.1-2ubuntu2	netfilter libip6tc library
libiptc0	1.6.1-2ubuntu2	netfilter libiptc library
libirs160	1:9.11.3+dfsg-1ubuntu1	DNS Shared Library used by BIND
libisc-export169	1:9.11.3+dfsg-1ubuntu1	Exported ISC Shared Library
libisc169	1:9.11.3+dfsg-1ubuntu1	ISC Shared Library used by BIND
libisccc160	1:9.11.3+dfsg-1ubuntu1	Command Channel Library used by BIND
libiscfg160	1:9.11.3+dfsg-1ubuntu1	Config File Handling Library used by BIND
libisns0	0.97-2build1	Internet Storage Name Service - shared libraries
libjansson4	2.11-1	"C library for encoding, decoding and manipulating JSON data"
libjbig0	2.1-3.1build1	JBIGkit libraries
libjpeg-turbo8	1.5.2-0ubuntu5.18.04.1	IJG JPEG compliant runtime library.
libjpeg8	8c-2ubuntu8	Independent JPEG Group's JPEG runtime library (dependency package)
libjson-c3	0.12.1-1.3	JSON manipulation library - shared library
libjson-glib-1.0-0	1.4.2-3	GLib JSON manipulation library
libjson-glib-1.0-common	1.4.2-3	GLib JSON manipulation library (common files)
libk5crypto3	1.16-2build1	MIT Kerberos runtime libraries - Crypto Library

Package	Version	Description
libkeyutils1	1.5.9-9.2ubuntu2	Linux Key Management Utilities (library)
libklibc	2.0.4-9ubuntu2	minimal libc subset for use with initramfs
libkmod2	24-1ubuntu3	libkmod shared library
libkrb5-26-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - libraries
libkrb5-3	1.16-2build1	MIT Kerberos runtime libraries
libkrb5support0	1.16-2build1	MIT Kerberos runtime libraries - Support library
libksba8	1.3.5-2	X.509 and CMS support library
liblcms2-2	2.9-1ubuntu0.1	Little CMS 2 color management library
libldap-2.4-2	2.4.45+dfsg-1ubuntu1	OpenLDAP libraries
libldap-common	2.4.45+dfsg-1ubuntu1	OpenLDAP common files for libraries
libldb1	2:1.2.3-1ubuntu0.1	LDAP-like embedded database - shared library
liblvm7	1:7-3~ubuntu0.18.04.1	"Modular compiler and toolchain technologies, runtime library"
liblocale-gettext-perl	1.07-3build2	module using libc functions for internationalization in Perl
liblua5.1-0	5.1.5-8.1build2	Shared library for the Lua interpreter version 5.1
liblvm2app2.2	2.02.176-4.1ubuntu3	LVM2 application library
liblvm2cmd2.02	2.02.176-4.1ubuntu3	LVM2 command library
liblwp-mediatypes-perl	6.02-1	module to guess media type for a file or a URL
liblwres160	1:9.11.3+dfsg-1ubuntu1	Lightweight Resolver Library used by BIND
liblxc-common	3.0.0-0ubuntu2	Linux Containers userspace tools (common tools)

Package	Version	Description
liblxc1	3.0.0-0ubuntu2	Linux Containers userspace tools (library)
liblz4-1	0.0~r131-2ubuntu3	Fast LZ compression algorithm library - runtime
liblzma5	5.2.2-1.3	XZ-format compression library
liblzo2-2	2.08-1.2	data compression library
libmagic-mgc	1:5.32-2	"File type determination library using ""magic"" numbers (compiled magic file)"
libmagic1	1:5.32-2	"Recognize the type of data in a file using ""magic"" numbers - library"
libmbim-glib4	1.18.0-1~ubuntu18.04.1	Support library to use the MBIM protocol
libmbim-proxy	1.18.0-1~ubuntu18.04.1	Proxy to communicate with MBIM ports
libmm-glib0	1.10.0-1~ubuntu18.04.2	D-Bus service for managing modems - shared libraries
libmn10	1.0.4-2	minimalistic Netlink communication library
libmount1	2.31.1-0.4ubuntu3	device mounting library
libmpdec2	2.4.2-1ubuntu1	library for decimal floating point arithmetic (runtime library)
libmpfr6	4.0.1-1	multiple precision floating-point computation
libmspack0	0.6-3	library for Microsoft compression formats (shared library)
libmtdev1	1.1.5-1ubuntu3	Multitouch Protocol Translation Library - shared library
libncurses5	6.1-1ubuntu1	shared libraries for terminal handling
libncursesw5	6.1-1ubuntu1	shared libraries for terminal handling (wide character support)
libnetfilter-contrack3	1.0.6-2	Netfilter netlink-contrack library

Package	Version	Description
libnettle6	3.4-1	low level cryptographic library (symmetric and one-way cryptos)
libnewt0.52	0.52.20-1ubuntu1	Not Erik's Windowing Toolkit - text mode windowing with slang
libnfnetlink0	1.0.1-3	Netfilter netlink library
libnghttp2-14	1.30.0-1ubuntu1	library implementing HTTP/2 protocol (shared library)
libnih1	1.0.3-6ubuntu2	NIH Utility Library
libnl-3-200	3.2.29-0ubuntu3	library for dealing with netlink sockets
libnl-genl-3-200	3.2.29-0ubuntu3	library for dealing with netlink sockets - generic netlink
libnl-route-3-200	3.2.29-0ubuntu3	library for dealing with netlink sockets - route interface
libnpt0	1.5-3	replacement for GNU Pth using system threads
libnspr4	2:4.18-1ubuntu1	NetScape Portable Runtime Library
libnss-mdns	0.10-8ubuntu1	NSS module for Multicast DNS name resolution
libnss-systemd	237-3ubuntu10	nss module providing dynamic user and group name resolution
libnss3	2:3.35-2ubuntu2.2	Network Security Service libraries
libntfs-3g88	1:2017.3.23-2	read/write NTFS driver for FUSE (runtime library)
libnuma1	2.0.11-2.1	Libraries for controlling NUMA policy
libogg0	1.3.2-1	Ogg bitstream library
libopus0	1.1.2-1ubuntu1	Opus codec runtime library
liborc-0.4-0	1:0.4.28-1	Library of Optimized Inner Loops Runtime Compiler
libp11-kit0	0.23.9-2	library for loading and coordinating access to PKCS#11 modules - runtime

Package	Version	Description
libpam-cap	1:2.25-1.2	POSIX 1003.1e capabilities (PAM module)
libpam-modules	1.1.8-3.6ubuntu2	Pluggable Authentication Modules for PAM
libpam-modules-bin	1.1.8-3.6ubuntu2	Pluggable Authentication Modules for PAM - helper binaries
libpam-runtime	1.1.8-3.6ubuntu2	Runtime support for the PAM library
libpam-systemd	237-3ubuntu10	system and service manager - PAM module
libpam0g	1.1.8-3.6ubuntu2	Pluggable Authentication Modules library
libpango-1.0-0	1.40.14-1ubuntu0.1	Layout and rendering of internationalized text
libpangocairo-1.0-0	1.40.14-1ubuntu0.1	Layout and rendering of internationalized text
libpangoft2-1.0-0	1.40.14-1ubuntu0.1	Layout and rendering of internationalized text
libparse-debianchangelog-perl	1.2.0-12	parse Debian changelogs and output them in other formats
libparted2	3.2-20	disk partition manipulator - shared library
libpcap0.8	1.8.1-6ubuntu1	system interface for user-level packet capture
libpci3	1:3.5.2-1ubuntu1	Linux PCI Utilities (shared library)
libpciaccess0	0.14-1	Generic PCI access library for X
libpcre3	2:8.39-9	Old Perl 5 Compatible Regular Expression Library - runtime files
libpcsclite1	1.8.23-1	Middleware to access a smart card using PC/SC (library)
libperl5.26	5.26.1-6	shared Perl library
libpipeline1	1.5.0-1	pipeline manipulation library
libpixman-1-0	0.34.0-2	pixel-manipulation library for X and cairo

Package	Version	Description
libplymouth4	0.9.3-1ubuntu7	graphical boot animation and logger - shared libraries
libpng16-16	1.6.34-1	PNG library - runtime (version 1.6)
libpolkit-agent-1-0	0.105-20	PolicyKit Authentication Agent API
libpolkit-backend-1-0	0.105-20	PolicyKit backend API
libpolkit-gobject-1-0	0.105-20	PolicyKit Authorization API
libpopt0	1.16-11	lib for parsing cmdline parameters
libprocps6	2:3.3.12-3ubuntu1	library for accessing process information from /proc
libproxy1v5	0.4.15-1	automatic proxy configuration management library (shared)
libpsl5	0.19.1-5build1	Library for Public Suffix List (shared libraries)
libpython3.6-minimal	3.6.5-3	Minimal subset of the Python language (version 3.6)
libpython3.6-stdlib	3.6.5-3	"Interactive high-level object-oriented language (standard library, version 3.6)"
libpython3-stdlib	3.6.5-3	interactive high-level object-oriented language (default python3 version)
libpython2.7-minimal	2.7.15-4ubuntu4~18.04	Minimal subset of the Python language (version 2.7)
libpython2.7-stdlib	2.7.15-4ubuntu4~18.04	"Interactive high-level object-oriented language (standard library, version 2.7)"
libpython-stdlib	2.7.15~rc1-1	interactive high-level object-oriented language (default python version)
libpython2.7	2.7.15-4ubuntu4~18.04	Shared Python runtime library (version 2.7)
libpython3.6	3.6.5-3	Shared Python runtime library (version 3.6)

Package	Version	Description
libqmi-glib5	1.22.0-1.2~ubuntu18.04.1	Support library to use the Qualcomm MSM Interface (QMI) protocol
libqmi-proxy	1.22.0-1.2~ubuntu18.04.1	Proxy to communicate with QMI ports
libqt5core5a	5.9.5+dfsg-0ubuntu2.1	Qt 5 core module
libqt5dbus5	5.9.5+dfsg-0ubuntu2.1	Qt 5 D-Bus module
libqt5gui5	5.9.5+dfsg-0ubuntu2.1	Qt 5 GUI module
libqt5network5	5.9.5+dfsg-0ubuntu2.1	Qt 5 network module
libqt5positioning5	5.9.5+dfsg-0ubuntu2	Qt Positioning module
libqt5printsupport5	5.9.5+dfsg-0ubuntu2.1	Qt 5 print support module
libqt5qml5	5.9.5-0ubuntu1.1	Qt 5 QML module
libqt5quick5	5.9.5-0ubuntu1.1	Qt 5 Quick library
libqt5sensors5	5.9.5-0ubuntu1	Qt Sensors module
libqt5svg5	5.9.5-0ubuntu1	Qt 5 SVG module
libqt5webchannel5	5.9.5-0ubuntu1	Web communication library for Qt
libqt5webkit5	5.212.0~alpha2-7ubuntu1	Web content engine library for Qt
libqt5widgets5	5.9.5+dfsg-0ubuntu2.1	Qt 5 widgets module
librados2	12.2.11-0ubuntu0.18.04.2	RADOS distributed object store client library
libreadline5	5.2+dfsg-3build1	"GNU readline and history libraries, run-time libraries"
libreadline7	7.0-3	"GNU readline and history libraries, run-time libraries"
librest-0.7-0	0.8.0-2	REST service access library

Package	Version	Description
libroken18-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - roken support library
librsvg2-2	2.40.20-2	SAX-based renderer library for SVG files (runtime)
librsvg2-common	2.40.20-2	SAX-based renderer library for SVG files (extra runtime)
librtmp1	2.4+20151223.gitfa8646d.1-1	toolkit for RTMP streams (shared library)
libsasl2-2	2.1.27~101-g0780600+dfsg-3ubuntu2	Cyrus SASL - authentication abstraction library
libsasl2-modules	2.1.27~101-g0780600+dfsg-3ubuntu2	Cyrus SASL - pluggable authentication modules
libsasl2-modules-db	2.1.27~101-g0780600+dfsg-3ubuntu2	Cyrus SASL - pluggable authentication modules (DB)
libseccomp2	2.3.1-2.1ubuntu4	high level interface to Linux seccomp filter
libselinux1	2.7-2build2	SELinux runtime shared libraries
libsemanage-common	2.7-2build2	Common files for SELinux policy management libraries
libsemanage1	2.7-2build2	SELinux policy management library
libsensors4	1:3.4.0-4	library to read temperature/voltage/fan sensors
libsepol1	2.7-1	SELinux library for manipulating binary security policies
libsigc++-2.0-0v5	2.10.0-2	type-safe Signal Framework for C++ - runtime
libsigsegv2	2.12-1	Library for handling page faults in a portable way
libslang2	2.3.1a-3ubuntu1	S-Lang programming library - runtime version
libsm6	2:1.2.2-1	X11 Session Management library

Package	Version	Description
libsmartcols1	2.31.1-0.4ubuntu3	smart column output alignment library
libsoup2.4-1	2.62.1-1ubuntu0.1	HTTP library implementation in C -- Shared library
libsoup-gnome2.4-1	2.62.1-1ubuntu0.1	HTTP library implementation in C -- GNOME support library
libsqlite3-0	3.22.0-1	SQLite 3 shared library
libss2	1.44.1-1	command-line interface parsing library
libssl1.0.0	1.0.2n-1ubuntu5	Secure Sockets Layer toolkit - shared libraries
libssl1.1	1.1.0g-2ubuntu4	Secure Sockets Layer toolkit - shared libraries
libstdc++6	8-20180414-1ubuntu2	GNU Standard C++ Library v3
libsub-name-perl	0.21-1build1	module for assigning a new name to referenced sub
libsystemd0	237-3ubuntu10	systemd utility library
libtalloc2	2.1.10-2ubuntu1	hierarchical pool based memory allocator
libtasn1-6	4.13-2	Manage ASN.1 structures (runtime)
libtdb1	1.3.15-2	Trivial Database - shared library
libtevent0	0.9.34-1	talloc-based event loop library - shared library
libtext-charwidth-perl	0.04-7.1	get display widths of characters on the terminal
libtext-iconv-perl	1.7-5build6	converts between character sets in Perl
libtext-wrapi18n-perl	0.06-7.1	internationalized substitute of Text::Wrap
libthai-data	0.1.27-2	Data files for Thai language support library
libthai0	0.1.27-2	Thai language support library

Package	Version	Description
libtheora0	1.1.1+dfsg.1-14	Theora Video Compression Codec
libtiff5	4.0.9-5ubuntu0.2	Tag Image File Format (TIFF) library
libtimedate-perl	2.3000-2	collection of modules to manipulate date/time information
libtinfo5	6.1-1ubuntu1	shared low-level terminfo library for terminal handling
libudev1	237-3ubuntu10	libudev shared library
libunistring2	0.9.9-0ubuntu1	Unicode string library for C
libunwind8	1.2.1-8	library to determine the call-chain of a program - runtime
liburi-perl	1.73-1	module to manipulate and access URI strings
libusb-1.0-0	2:1.0.21-2	userspace USB programming library
libutempter0	1.1.6-3	privileged helper for utmp/wtmp updates (runtime)
libuuid1	2.31.1-0.4ubuntu3	Universally Unique ID library
libvisual-0.4-0	0.4.0-11	audio visualization framework
libvorbis0a	1.3.5-4.2	decoder library for Vorbis General Audio Compression Codec
libvorbisenc2	1.3.5-4.2	encoder library for Vorbis General Audio Compression Codec
libwacom-bin	0.29-1	Wacom model feature query library -- binaries
libwacom-common	0.29-1	Wacom model feature query library (common files)
libwacom2	0.29-1	Wacom model feature query library
libwayland-client0	1.16.0-1ubuntu1.1~18.04.1	wayland compositor infrastructure - client library
libwayland-cursor0	1.16.0-1ubuntu1.1~18.04.1	wayland compositor infrastructure - cursor library

Package	Version	Description
libwayland-egl1	1.16.0-1ubuntu1.1~18.04.1	wayland compositor infrastructure - EGL library
libwayland-server0	1.16.0-1ubuntu1.1~18.04.1	wayland compositor infrastructure - server library
libwbclient0	2:4.7.6+dfsg~ubuntu-0ubuntu2.11	Samba winbind client library
libwebp6	0.6.1-2	Lossy compression of digital photographic images.
libwind0-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - stringprep implementation
libwoff1	1.0.2-1build0.1	library for converting fonts to WOFF 2.0
libwrap0	7.6.q-27	Wietse Venema's TCP wrappers library
libx11-6	2:1.6.4-3	X11 client-side library
libx11-data	2:1.6.4-3	X11 client-side library
libx11-xcb1	2:1.6.4-3ubuntu0.2	Xlib/XCB interface library
libxapian30	1.4.5-1ubuntu0.1	Search engine library
libxau6	1:1.0.8-1	X11 authorisation library
libxcb-dri3-0	1.13-2~ubuntu18.04	"X C Binding, dri3 extension"
libxcb-dri2-0	1.13-2~ubuntu18.04	"X C Binding, dri2 extension"
libxcb-glx0	1.13-2~ubuntu18.04	"X C Binding, glx extension"
libxcb-icccm4	0.4.1-1ubuntu1	utility libraries for X C Binding -- icccm
libxcb-image0	0.4.0-1build1	utility libraries for X C Binding -- image
libxcb-keysyms1	0.4.0-1	utility libraries for X C Binding -- keysyms
libxcb-present0	1.13-2~ubuntu18.04	"X C Binding, present extension"

Package	Version	Description
libxcb-randr0	1.13-2~ubuntu18.04	"X C Binding, randr extension"
libxcb-render-util0	0.3.9-1	utility libraries for X C Binding -- render-util
libxcb-render0	1.13-2~ubuntu18.04	"X C Binding, render extension"
libxcb-shape0	1.13-2~ubuntu18.04	"X C Binding, shape extension"
libxcb-shm0	1.13-2~ubuntu18.04	"X C Binding, shm extension"
libxcb-sync1	1.13-2~ubuntu18.04	"X C Binding, sync extension"
libxcb-util1	0.4.0-0ubuntu3	"utility libraries for X C Binding -- atom, aux and event"
libxcb-xfixes0	1.13-2~ubuntu18.04	"X C Binding, xfixes extension"
libxcb-xinerama0	1.13-2~ubuntu18.04	"X C Binding, xinerama extension"
libxcb-xkb1	1.13-2~ubuntu18.04	"X C Binding, XKEYBOARD extension"
libxcb1	1.13-1	X C Binding
libxcomposite1	1:0.4.4-2	X11 Composite extension library
libxcursor1	1:1.1.15-1	X cursor management library
libxdamage1	1:1.1.4-3	X11 damaged region extension library
libxdmcp6	1:1.1.2-3	X11 Display Manager Control Protocol library
libxext6	2:1.3.3-1	X11 miscellaneous extension library
libxfixes3	1:5.0.3-1	X11 miscellaneous 'fixes' extension library
libxi6	2:1.7.9-1	X11 Input extension library
libxinerama1	2:1.1.3-1	X11 Xinerama extension library

Package	Version	Description
libxkbcommon-x11-0	0.8.0-1ubuntu0.1	library to create keymaps with the XKB X11 protocol
libxkbcommon0	0.8.0-1ubuntu0.1	library interface to the XKB compiler - shared library
libxml2	2.9.4+dfsg1-6.1ubuntu1	GNOME XML library
libxmlsec1-openssl	1.2.25-1build1	Openssl engine for the XML security library
libxmlsec1	1.2.25-1build1	XML security library
libxmuu1	2:1.1.2-2	X11 miscellaneous micro-utility library
libxrandr2	2:1.5.1-1	X11 RandR extension library
libxrender1	1:0.9.10-1	X Rendering Extension client library
libxshmfence1	1.3-1	X shared memory fences - shared library
libxslt1.1	1.1.29-5	XSLT 1.0 processing library - runtime library
libxtables12	1.6.1-2ubuntu2	netfilter xtables library
libxtst6	2:1.2.3-1	X11 Testing -- Record extension library
libxxf86vm1	1:1.1.4-1	X11 XFree86 video mode extension library
libyaml-0-2	0.1.7-2ubuntu3	Fast YAML 1.1 parser and emitter library
libzstd1	1.3.3+dfsg-2ubuntu1	fast lossless compression algorithm
linux-base	4.5ubuntu1	Linux image base package
linux-firmware	1.173	Firmware for Linux kernel drivers
linux-generic	4.15.0-20.23	Complete Generic Linux kernel and headers
linux-headers-4.15.0-20-generic	4.15.0-20.21	Linux kernel headers for version 4.15.0 on 64 bit x86 SMP

Package	Version	Description
linux-headers-4.15.0-20	4.15.0-20.21	Header files related to Linux kernel version 4.15.0
linux-headers-generic	4.15.0.20.23	Generic Linux kernel headers
linux-image-4.15.0-20-generic	4.15.0-20.21	Signed kernel image generic
linux-image-generic	4.15.0.20.23	Generic Linux kernel image
linux-modules-4.15.0-20-generic	4.15.0-20.21	Linux kernel extra modules for version 4.15.0 on 64 bit x86 SMP
linux-modules-extra-4.15.0-20-generic	4.15.0-20.21	Linux kernel extra modules for version 4.15.0 on 64 bit x86 SMP
linux-signed-generic	4.15.0.20.23	Complete Signed Generic Linux kernel and headers (dummy transitional package)
locales	2.27-3ubuntu1	GNU C Library: National Language (locale) data [support]
login	1:4.5-1ubuntu1	system login tools
logrotate	3.11.0-0.1ubuntu1	Log rotation utility
lsb-base	9.20170808ubuntu1	Linux Standard Base init script functionality
lsb-release	9.20170808ubuntu1	Linux Standard Base version reporting utility
lshw	02.18-0.1ubuntu6	information about hardware configuration
lsuf	4.89+dfsg-0.1	Utility to list open files
ltrace	0.7.3-6ubuntu1	Tracks runtime library calls in dynamically linked programs
lvm2	2.02.176-4.1ubuntu3	Linux Logical Volume Manager
lxcfs	3.0.0-0ubuntu1	FUSE based filesystem for LXC

Package	Version	Description
lxd	3.0.0-0ubuntu4	Container hypervisor based on LXC - daemon
lxd-client	3.0.0-0ubuntu4	Container hypervisor based on LXC - client
man-db	2.8.3-2	on-line manual pager
manpages	4.15-1	Manual pages about using a GNU/Linux system
mawk	1.3.3-17ubuntu3	a pattern scanning and text processing language
mdadm	4.0-2ubuntu1	tool to administer Linux MD arrays (software RAID)
mime-support	3.60ubuntu1	"MIME files 'mime.types' & 'mailcap', and support programs"
mlocate	0.26-2ubuntu3.1	quickly find files on the filesystem based on their name
modemmanager	1.10.0-1~ubuntu18.04.2	D-Bus service for managing modems
mokutil	0.3.0-0ubuntu5	tools for manipulating machine owner keys
mount	2.31.1-0.4ubuntu3	tools for mounting and manipulating filesystems
mtr-tiny	0.92-1	Full screen ncurses traceroute tool
multiarch-support	2.27-3ubuntu1	Transitional package to ensure multiarch compatibility
mysql-client-5.7	5.7.26-0ubuntu0.18.04.1	MySQL database client binaries
mysql-client-core-5.7	5.7.26-0ubuntu0.18.04.1	MySQL database core client binaries
mysql-common	5.8+1.0.4	"MySQL database common files, e.g. /etc/mysql/my.cnf"
mysql-server	5.7.26-0ubuntu0.18.04.1	MySQL database server (metapackage depending on the latest version)
mysql-server-5.7	5.7.26-0ubuntu0.18.04.1	MySQL database server binaries and system database setup
mysql-server-core-5.7	5.7.26-0ubuntu0.18.04.1	MySQL database server binaries

Package	Version	Description
nano	2.9.3-2	"small, friendly text editor inspired by Pico"
ncurses-base	6.1-1ubuntu1	basic terminal type definitions
ncurses-bin	6.1-1ubuntu1	terminal-related programs and man pages
net-tools	1.60+git20161116.90da8a0-1ubuntu1	NET-3 networking toolkit
netbase	5.4	Basic TCP/IP networking system
netcat-openbsd	1.187-1	TCP/IP swiss army knife
netplan.io	0.36.1	YAML network configuration abstraction for various backends
networkd-dispatcher	1.7-0ubuntu3	Dispatcher service for systemd-networkd connection status changes
nplan	0.36.1	YAML network configuration abstraction - transitional package
ntfs-3g	1:2017.3.23-2	read/write NTFS driver for FUSE
open-iscsi	2.0.874-5ubuntu2	iSCSI initiator tools
open-vm-tools	2:10.2.0-3ubuntu3	Open VMware Tools for virtual machines hosted on VMware (CLI)
openssh-client	1:7.6p1-4	"secure shell (SSH) client, for secure access to remote machines"
openssl	1.1.0g-2ubuntu4	Secure Sockets Layer toolkit - cryptographic utility
os-prober	1.74ubuntu1	utility to detect other OSes on a set of drives
overlayroot	0.40ubuntu1	use an overlays on top of a read-only root filesystem
parted	3.2-20	disk partition manipulator
passwd	1:4.5-1ubuntu1	change and administer password and group data

Package	Version	Description
pastebinit	1.5-2	command-line pastebin client
patch	2.7.6-2ubuntu1	Apply a diff file to an original
pciutils	1:3.5.2-1ubuntu1	Linux PCI Utilities
perl	5.26.1-6	Larry Wall's Practical Extraction and Report Language
perl-base	5.26.1-6	minimal Perl system
perl-modules-5.26	5.26.1-6	Core Perl modules
phantomjs	2.1.1+dfsg-2	minimalistic headless WebKit-based browser with JavaScript API
pinentry-curses	1.1.0-1	curses-based PIN or pass-phrase entry dialog for GnuPG
plymouth	0.9.3-1ubuntu7	"boot animation, logger and I/O multiplexer"
plymouth-theme-ubuntu-text	0.9.3-1ubuntu7	"boot animation, logger and I/O multiplexer - ubuntu text theme"
policykit-1	0.105-20	framework for managing administrative policies and privileges
pollinate	4.31-0ubuntu1	seed the pseudo random number generator
popularity-contest	1.66ubuntu1	Vote for your favourite packages automatically
powermgmt-base	1.33	common utils for power management
procps	2:3.3.12-3ubuntu1	/proc file system utilities
psmisc	23.1-1	utilities that use the proc file system
publicsuffix	20180223.1310-1	"accurate, machine-readable list of domain name suffixes"
python	2.7.15~rc1-1	interactive high-level object-oriented language (default version)
python3.6-minimal	3.6.5-3	Minimal subset of the Python language (version 3.6)

Package	Version	Description
python3-apport	2.20.9-0ubuntu7	Python 3 library for Apport crash report handling
python3-apt	1.6.0	Python 3 interface to libapt-pkg
python3-asn1crypto	0.24.0-1	Fast ASN.1 parser and serializer (Python 3)
python3-attr	17.4.0-2	Attributes without boilerplate (Python 3)
python3-automat	0.6.0-1	Self-service finite-state machines for the programmer on the go
python3-certifi	2018.1.18-2	root certificates for validating SSL certs and verifying TLS hosts (python3)
python3-cffi-backend	1.11.5-1	Foreign Function Interface for Python 3 calling C code - runtime
python3-chardet	3.0.4-1	universal character encoding detector for Python3
python3-click	6.7-3	Simple wrapper around optparse for powerful command line utilities - Python 3.x
python3-colorama	0.3.7-1	Cross-platform colored terminal text in Python - Python 3.x
python3-commandnotfound	18.04.4	Python 3 bindings for command-not-found.
python3-configobj	5.0.6-2	simple but powerful config file reader and writer for Python 3
python3-constantly	15.1.0-1	Symbolic constants in Python
python3-cryptography	2.1.4-1ubuntu1.1	Python library exposing cryptographic recipes and primitives (Python 3)
python3-dbus	1.2.6-1	simple interprocess messaging system (Python 3 interface)
python3-debconf	1.5.66	interact with debconf from Python 3
python3-debian	0.1.32	Python 3 modules to work with Debian-related data formats
python3-distro-info	0.18	information about distributions' releases (Python 3 module)

Package	Version	Description
python3-distupgrade	1:18.04.17	manage release upgrades
python3-gdbm	3.6.5-3	GNU dbm database support for Python 3.x
python3-gi	3.26.1-2	Python 3 bindings for GObject-introspection libraries
python3-httpplib2	0.9.2+dfsg-1	comprehensive HTTP client library written for Python3
python3-hyperlink	17.3.1-2	"Immutable, Pythonic, correct URLs."
python3-idna	2.6-1	Python IDNA2008 (RFC 5891) handling (Python 3)
python3-incremental	16.10.1-3	Library for versioning Python projects.
python3-minimal	3.6.5-3	minimal subset of the Python language (default python3 version)
python3-newt	0.52.20-1ubuntu1	NEWT module for Python3
python3-openssl	17.5.0-1ubuntu1	Python 3 wrapper around the OpenSSL library
python3-pam	0.4.2-13.2ubuntu4	Python interface to the PAM library
python3-pkg-resources	39.0.1-2	Package Discovery and Resource Access using pkg_resources
python3-problem-report	2.20.9-0ubuntu7	Python 3 library to handle problem reports
python3-pyasn1-modules	0.2.1-0.2	Collection of protocols modules written in ASN.1 language (Python 3)
python3-pyasn1	0.4.2-3	ASN.1 library for Python (Python 3 module)
python3-requests	2.18.4-2	"elegant and simple HTTP library for Python3, built for human beings"
python3-requests-unixsocket	0.1.5-3	Use requests to talk HTTP via a UNIX domain socket - Python 3.x
python3-serial	3.4-2	pyserial - module encapsulating access for the serial port
python3-service-identity	16.0.0-2	Service identity verification for pyOpenSSL (Python 3 module)

Package	Version	Description
python3-six	1.11.0-2	Python 2 and 3 compatibility library (Python 3 interface)
python3-software-properties	0.96.24.32.1	manage the repositories that you install software from
python3-systemd	234-1build1	Python 3 bindings for systemd
python3-twisted	17.9.0-2	Event-based framework for internet applications
python3-twisted-bin	17.9.0-2	Event-based framework for internet applications
python3-update-manager	1:18.04.11	python 3.x module for update-manager
python3-urllib3	1.22-1	HTTP library with thread-safe connection pooling for Python3
python3-yaml	3.12-1build2	YAML parser and emitter for Python3
python3-zope.interface	4.3.2-1build2	Interfaces for Python3
python2.7-minimal	2.7.15-4ubuntu4~18.04	Minimal subset of the Python language (version 2.7)
python-apt-common	1.6.0	Python interface to libapt-pkg (locales)
python-crypto	2.6.1-8ubuntu2	cryptographic algorithms and protocols for Python
python-dnspython	1.15.0-1	DNS toolkit for Python
python-ldb	2:1.2.3-1ubuntu0.1	Python bindings for LDB
python-minimal	2.7.15~rc1-1	minimal subset of the Python language (default version)
python-samba	2:4.7.6+dfsg~ubuntu-0ubuntu2.11	Python bindings for Samba
python-talloc	2.1.10-2ubuntu1	hierarchical pool based memory allocator - Python bindings
python-tdb	1.3.15-2	Python bindings for TDB
python2.7	2.7.15-4ubuntu4~18.04	Interactive high-level object-oriented language (version 2.7)

Package	Version	Description
python3	3.6.5-3	interactive high-level object-oriented language (default python3 version)
python3.6	3.6.5-3	Interactive high-level object-oriented language (version 3.6)
qt5-gtk-platformtheme	5.9.5+dfsg-0ubuntu2.1	Qt 5 GTK+ 3 platform theme
qttranslations5-l10n	5.9.5-0ubuntu1	translations for Qt 5
readline-common	7.0-3	"GNU readline and history libraries, common files"
rsync	3.1.2-2.1ubuntu1	"fast, versatile, remote (and local) file-copying tool"
rsyslog	8.32.0-1ubuntu4	reliable system and kernel logging daemon
run-one	1.17-0ubuntu1	run just one instance of a command and its args at a time
samba	2:4.7.6+dfsg~ubuntu-0ubuntu2.11	"SMB/CIFS file, print, and login server for Unix"
samba-common	2:4.7.6+dfsg~ubuntu-0ubuntu2.11	common files used by both the Samba server and client
samba-common-bin	2:4.7.6+dfsg~ubuntu-0ubuntu2.11	Samba common files used by both the server and the client
samba-dsdb-modules	2:4.7.6+dfsg~ubuntu-0ubuntu2.11	Samba Directory Services Database
samba-libs	2:4.7.6+dfsg~ubuntu-0ubuntu2.11	Samba core libraries
samba-vfs-modules	2:4.7.6+dfsg~ubuntu-0ubuntu2.11	Samba Virtual FileSystem plugins
sbsigntool	0.6-3.2ubuntu2	Tools to manipulate signatures on UEFI binaries and drivers
screen	4.6.2-1	terminal multiplexer with VT100/ANSI terminal emulation
secureboot-db	1.1	Secure Boot updates for DB and DBX
sed	4.4-2	GNU stream editor for filtering/transforming text
sensible-utils	0.0.12	Utilities for sensible alternative selection

Package	Version	Description
shared-mime-info	1.9-2	FreeDesktop.org shared MIME database and spec
shim	13-0ubuntu2	boot loader to chain-load signed boot loaders under Secure Boot
shim-signed	1.34.9+13-0ubuntu2	Secure Boot chain-loading bootloader (Microsoft-signed binary)
snapd	2.32.5+18.04	Daemon and tooling that enable snap packages
software-properties-common	0.96.24.32.1	manage the repositories that you install software from (common)
sosreport	3.5-1ubuntu3	Set of tools to gather troubleshooting data from a system
squashfs-tools	1:4.3-6	Tool to create and append to squashfs filesystems
ssl-cert	1.0.39	simple debconf wrapper for OpenSSL
strace	4.21-1ubuntu1	System call tracer
sudo	1.8.21p2-3ubuntu1	Provide limited super user privileges to specific users
systemd	237-3ubuntu10	system and service manager
systemd-sysv	237-3ubuntu10	system and service manager - SysV links
sysvinit-utils	2.88dsf-59.10ubuntu1	System-V-like utilities
tar	1.29b-2	GNU version of the tar archiving utility
tasksel	3.34ubuntu11	tool for selecting tasks for installation on Debian systems
tasksel-data	3.34ubuntu11	official tasks used for installation of Debian systems
tcpd	7.6.q-27	Wietse Venema's TCP wrapper utilities
tcpdump	4.9.2-3	command-line network traffic analyzer
tdb-tools	1.3.15-2	Trivial Database - bundled binaries

Package	Version	Description
time	1.7-25.1build1	GNU time program for measuring CPU resource usage
tmux	2.6-3	terminal multiplexer
tzdata	2018d-1	time zone and daylight-saving time data
ubuntu-advantage-tools	17	management tools for Ubuntu Advantage
ubuntu-keyring	2018.02.28	GnuPG keys of the Ubuntu archive
ubuntu-minimal	1.417	Minimal core of Ubuntu
ubuntu-mono	16.10+18.04.20181005-0ubuntu1	Ubuntu Mono Icon theme
ubuntu-release-upgrader-core	1:18.04.17	manage release upgrades
ubuntu-standard	1.417	The Ubuntu standard system
ucf	3.0038	Update Configuration File(s): preserve user changes to config files
udev	237-3ubuntu10	/dev/ and hotplug management daemon
ufw	0.35-5	program for managing a Netfilter firewall
uidmap	1:4.5-1ubuntu1	programs to help use subuids
unattended-upgrades	1.1ubuntu1	automatic installation of security upgrades
unzip	6.0-21ubuntu1	De-archiver for .zip files
update-manager-core	1:18.04.11	manage release upgrades
update-notifier-common	3.192	Files shared between update-notifier and other packages
ureadahead	0.100.0-20	Read required files in advance
usb-modeswitch	2.5.2+repack0-2ubuntu1	"mode switching tool for controlling ""flip flop"" USB devices"

Package	Version	Description
usb-modeswitch-data	20170806-2	mode switching data for usb-modeswitch
usbutils	1:007-4build1	Linux USB utilities
util-linux	2.31.1-0.4ubuntu3	miscellaneous system utilities
uuid-runtime	2.31.1-0.4ubuntu3	runtime components for the Universally Unique ID library
vim	2:8.0.1453-1ubuntu1	Vi IMproved - enhanced vi editor
vim-common	2:8.0.1453-1ubuntu1	Vi IMproved - Common files
vim-runtime	2:8.0.1453-1ubuntu1	Vi IMproved - Runtime files
vim-tiny	2:8.0.1453-1ubuntu1	Vi IMproved - enhanced vi editor - compact version
wget	1.19.4-1ubuntu2	retrieves files from the web
whiptail	0.52.20-1ubuntu1	Displays user-friendly dialog boxes from shell scripts
wireless-regdb	2016.06.10-0ubuntu1	wireless regulatory database
wpa_supplicant	2:2.6-15ubuntu2.3	client support for WPA and WPA2 (IEEE 802.11i)
x11-common	1:7.7+19ubuntu7.1	X Window System (X.Org) infrastructure
xauth	1:1.0.10-1	X authentication utility
xdelta3	3.0.11-dfsg-1ubuntu1	Diff utility which works with binary files
xdg-user-dirs	0.17-1ubuntu1	tool to manage well known user directories
xfspgfs	4.9.0+nmu1ubuntu2	Utilities for managing the XFS filesystem
xkb-data	2.23.1-1ubuntu1	X Keyboard Extension (XKB) configuration data
xxd	2:8.0.1453-1ubuntu1	tool to make (or reverse) a hex dump

Package	Version	Description
xz-utils	5.2.2-1.3	XZ-format compression utilities
zerofree	1.0.4-1	"zero free blocks from ext2, ext3 and ext4 file-systems"
zlib1g	1:1.2.11.dfsg-0ubuntu2	compression library - runtime