



Stratusphere™ FIT/UX

# Security Addendum

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This guide has been authored by experts at Liquidware in order to provide information and guidance concerning Stratusphere™.

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## Table of Contents

<b>Purpose</b> .....	<b>1</b>
<b>Security Updates</b> .....	<b>2</b>
<b>Assumptions</b> .....	<b>3</b>
<b>Securing Stratusphere</b> .....	<b>4</b>
Hub Advanced Configuration .....	4
Configure the NTP Server .....	4
Configure the Session Timeout and Password Lockout Fields .....	4
Install an SSL Certificate on a Stratusphere Hub Appliance .....	5
Forward Syslog to External Host (Optional) .....	7
Enable Two Factor Authentication (Optional) .....	8
Set Up a Static IPv6 Address (Optional) .....	10
Database Advanced Configuration .....	10
Install an SSL Certificate on a Stratusphere Database Appliance .....	11
Collector Advanced Configuration .....	13
Install SSL Certificate on Stratusphere Collector Appliance .....	14
Enable Enhanced Security Configuration .....	16
Enable CAC Authentication .....	21
CAC Certificate Revocation List Configuration .....	22
Configuring a Hub to Use an Online Service (recommended) .....	22
Configuring a Hub to Download a CRL Locally .....	24
Enable Privacy: Anonymizing User and Machine Names .....	25
SSL and TLS Settings .....	28
Install Connector ID Keys (Desktop Agents) .....	29
CID Key Encryption .....	29
Webserver Accounts and Usage .....	30
Accounts with Login Privileges .....	30
Accounts Without Login Privileges (Internal System Accounts) .....	30

Stratusphere Hub Appliance Installed Packages .....	32
Stratusphere Database Appliance Installed Packages .....	61
Stratusphere Collector Appliance Installed Packages .....	83

## Purpose

This document has been created to aid System Administrators in configuring settings as might be required by Security Technical Implementation Guides. The Stratusphere appliances have specific features included to meet STIG requirements. Liquidware has reviewed the STIG requirements for the CentOS 8 operating system, web services and database relative to the virtual appliances for Stratusphere FIT and UX. The systems have been patched, updated, and configured to meet the STIG requirements. However, some of the STIG requirements must be implemented by the System Administrator.

## Security Updates

Our appliances are updated with the latest security updates from CentOS 8 and other third-party vendors prior to each release. These updates are brought in just before our QA cycle for the release.

We constantly monitor security vulnerability announcements and respective patches that affect our appliances. Any critical patches will be included in point releases and made available to customers monthly. We consolidate them into point releases, so we can test and verify the updates don't adversely affect any functionality.

If a customer has an immediate need for a specific security fix, contact Liquidware Support and we will investigate and advise the best course of action.

## Assumptions

It is assumed that the CentOS 8 version of Stratusphere appliances have already been deployed by following the latest instructions provided in the Stratusphere Installation & Configuration Guide.

# Securing Stratusphere

Complete the following steps to finish the installation of Stratusphere. The configuration steps marked as **Optional** might be necessary to comply with your security policy. Implement them accordingly.

## Hub Advanced Configuration

### Configure the NTP Server

1. Connect to `https://<hub ip>`
2. Select the **Administration** option and enter the appropriate username and password.
3. Navigate to the **Hub Administration > Configuration** tab.
4. Select the **NTP** checkbox and enter two valid NTP server addresses delimited with a comma.
5. Continue with next section or click the **Save Changes** button.

### Configure the Session Timeout and Password Lockout Fields

1. Click to open the **Other Settings** section.
2. Adjust the login session timeout so that it conforms to your organization's security requirements.
3. Enable the password lockout checkbox to make it possible to lock a user out if a wrong password is entered numerous times in a row.
4. In the **API Client IPs** field, enter a comma-separated list of either specific IP Addresses and/or CIDR blocks of client networks from which you would want to allow Stratusphere API access. Access from any IP Addresses specified in this field allows users to access Stratusphere data through API in a read only fashion regardless of whether they were provisioned API access or provided user credentials. The user credentials are not authenticated and bypassed for API Access if the client API access comes from an IP Address specified within this field. For the highest level of security, keep this field empty or lock it down to a very small list of addresses.
5. In the **Whitelist** field, if users are required to be authenticated with credentials for API Access, then enter a whitelist (allowed) of comma-separated IP Addresses and/or CIDR blocks from where authenticated users can access Stratusphere API for read only data



access. Stratusphere API authorized users first need to be provisioned for using API by navigating to the **Inventory > Users** tab, selecting them individually, and then on the **User Details** screen, selecting the **Allow API Access** checkbox.

6. In the **Blacklist** field, if API Access from certain IP Networks needs to be restricted, enter a blacklist (quarantined) of comma-separated IP Addresses and/or CIDR blocks from where users would be disallowed from accessing Stratusphere API. Any user provisioned for access to Stratusphere API who tries to access it from a client IP Address that is part of the blacklist would be denied access due to their IP Address being included in the blacklist.
7. Click the **Save Changes** button.

## Install an SSL Certificate on a Stratusphere Hub Appliance

To prepare the certificate request, start with these initial steps:

1. Log in to the Stratusphere Hub appliance local console using the following credentials:
  - **User ID:** `friend`
  - **Password:** `sppassword.`
2. Switch to the **root** user using the following command and enter the password when prompted. The default password is `sppassword.`

```
su -
```

3. Change to the following folder using the command:

```
cd /home/friend
```

4. Enter the following commands:

```
openssl genrsa 2048 > /etc/lwl/ssl/ssl.key.2048  
cp /etc/lwl/ssl/ssl.key /etc/lwl/ssl/ssl.key.original
```

5. Generate a certificate request on the Stratusphere Hub using the existing SSL Key.

```
openssl req -key /etc/lwl/ssl/ssl.key.2048 -out hubcertrequest.csr -new -sha256
```

6. When prompted for a common name, provide your Hub's fully qualified DNS name.

```
common name: <hubdnsname.domain.com>
```

The certificate request is generated in the following location:

```
/home/friend/hubcertrequest.csr
```

7. Enter the following to change ownership of the file so that it is accessible using the **friend** user.

```
chown friend:friend /home/friend/hubcertrequest.csr
```

8. Use WinSCP or FileZilla or similar software to download this certificate request `/home/friend/hubcertrequest.csr` file to your local desktop. In WinSCP or FileZilla, use the User ID `friend` and the password `sspassword` as credentials within the program. Use the SCP protocol with WinSCP (Port 22).
9. Provide this certificate request file to your security provider or Certifying Authority and request that they provide the SSL Certificate specifically in **base64 / PEM** format. For these instructions, call the SSL Certificate file `hubsslcert.crt`. When you see references to `hubsslcert.crt` in this document, you should substitute the actual name of the SSL Certificate file you received from your security provider or Certifying Authority.

**Important:** Pause here until you receive your SSL certificate from your provider, then complete the process using the following instructions.

10. Use WinSCP or FileZilla or similar software to upload the `hubsslcert.crt` SSL Certificate file to your Stratusphere Hub in the `/home/friend/hubsslcert.crt` location. In WinSCP or FileZilla, use the User ID `friend` and the password `sspassword` as credentials within the program. Use the SCP protocol with WinSCP (Port 22).

11. On the Stratusphere Hub local console, while still logged in as the **root** user, make a copy the original SSL certificate as a backup:

```
cp /etc/lwl/ssl/ssl.crt /etc/lwl/ssl/ssl.crt.orig
```

12. Place the new key and certificate in place of the original and modify the file permissions as follows:

```
cp /etc/lwl/ssl/ssl.key.2048 /etc/lwl/ssl/ssl.key
mv /home/friend/hubsslcert.crt /etc/lwl/ssl/ssl.crt
chown root:root /etc/lwl/ssl/ssl.crt
chmod 644 /etc/lwl/ssl/ssl.crt
chmod 640 /etc/lwl/ssl/ssl.key
restorecon -RF /etc/lwl/ssl
```

13. Restart the Web Server to load the newly added SSL Certificate.

On versions up to 6.1.1, use the following command:

```
/etc/init.d/httpd restart
```

On versions 6.1.3 to 6.1.5, use the following command:

```
/etc/init.d/lwl-httpd24 restart
```

On versions 6.5.0 and higher, use the following command:

```
systemctl restart httpd
```

14. Using your browser of choice, log into the Stratusphere Hub Web UI. Ensure that the UI Login page shows with no certificate related warning. Also verify the information within the certificate provided by the browser address bar.

## Forward Syslog to External Host (Optional)

1. To send all audit records to a remote audit server, edit the `/etc/rsyslog.conf` file to add the following new line or edit a line if it exists.

2. Specify the server by placing an @ before the DNS name or IP address in the line.

```
*.* @<remote audit server>
```

## Enable Two Factor Authentication (Optional)

1. Add a CA certificate in PEM format using the following commands:

- a. Copy the CA certificate file in PEM format to the Hub appliance using the command line option or your preferred SCP Client, like WinSCP, to the `/home/<username>/` folder such as `/home/friend/` on VMware, Hyper-V and Nutanix for example:

```
scp <ca_cert.pem> friend@hubip:ca_cert.pem
```

- b. Move the file from the `/home/friend/` folder to the appropriate folder with the following command:

```
mv /home/friend/ca_cert.pem /etc/lwl/httpd/cacerts
```

- c. Rehash the certificate files in the `cacerts` folder with the following command:

```
c_rehash /etc/lwl/httpd/cacerts/
```

2. Turn on SSL client certificate check by editing the following files:

- a. Edit the `/etc/lwl/httpd/conf.d/clientcerts.on` file to change the `SSLVerifyClient` setting from `none` to `require`.

- i. Type the following: `vi /etc/lwl/httpd/conf.d/clientcert.on`

- ii. Search for `SSLVerifyClient` within `vi` by entering `/SSLVerifyClient` and pressing **Enter**. The editor will take you to the appropriate line in the file.

- iii. Switch to **Insert** mode by typing the letter `I`, then replace `none` with `require`.

- iv. Press the **ESC** key, then type `“:wq!”` to write and quit the `vi` editor.

- b. Edit the `/etc/lwl/httpd/conf.d/clientcerts.conf` file and follow the instructions in the file to uncomment the appropriate lines related to `dod-root-certs.pem` or self-contained CRLs or use of a network OCSP server, etc.

- i. Type the following: `vi /etc/lwl/httpd/conf.d/clientcerts.conf`
- ii. Go into **Insert** mode by typing the letter `I`, then delete the `#` character at the beginning of any line that needs to be uncommented.
- iii. Click the **ESC** key, then type “`:wq!`” to write and quit the vi editor.
- iv. The following is an example of what the file contains:

```
SSLVerifyDepth 10

SSLCACertificateFile /etc/lwl/httpd/cacerts/dod-root-certs.pem
#SSLCACertificateFile /etc/lwl/httpd/cacerts/dod-root-certs-jitc.pem
#SSLCACertificateFile /etc/lwl/httpd/cacerts/dod-root-certs-eca.pem

#
# uncomment and update below if a self-contained CRL is provided
#SSLCARevocationFile /etc/lwl/httpd/crls/crllist.crl
#
# uncomment and update below to use a network OCSP server
#SSLCSPEnable on
#SSLCSPEDefaultResponder http://ocspserver:ocspport
#SSLCSPOverrideResponder on
```

3. Restart the web server for the changes to take effect.

On versions up to 6.1.1, use the following command

```
/etc/init.d/httpd restart
```

On versions 6.1.3 to 6.1.5, use the following command:

```
/etc/init.d/lwl-httpd24 restart
```

On versions 6.5.0 and higher, use the following command:

```
systemctl restart httpd
```

## Set Up a Static IPv6 Address (Optional)

Set up a static IPv6 address. The Hub will be configured by default to use auto config for IPv6. This should work for most cases. If you need to use a static IPv6 address, you can specify this using the **Network Configuration** option in the Liquidware console.

## Database Advanced Configuration

1. Before powering on the VM, size your database to meet your data retention needs. See our [Stratusphere Sizing Guide](#) for details.
2. Power on the Database appliance.
3. Complete the following substeps to set up the network configuration:
  - a. From the console, complete the Network configuration wizard. DO NOT use DHCP.
  - b. Assign a fixed IPv4 address.
  - c. Leave **IPv6 Auto Config** set to **Yes**.
4. Complete the following substeps to join the Database to the Hub:
  - a. Log in to the command line console using the **ssconsole** credentials.
  - b. Type **D** to select the **D) Database VM Utilities** option.
  - c. Type **J** to select the **J) Join this database to a hub** option.
  - d. Copy the database from the Hub and reboot the Hub when prompted.
5. (Optional) Complete the following substeps to encrypt the data partition:
  - a. Ensure your database is sized correctly. If necessary, power down and size your database to meet your data retention needs. See our sizing guidelines for details.
  - b. Take a snapshot of the Database.
  - c. Power up the VM.
  - d. Log in to the command line console using the **ssconsole** credentials.
  - e. Type **D** to select the **D) Database VM Utilities** option.

- f. Type `E` to select the **E) Setup Encrypted Database** option.

**Note:** Remember the password used to encrypt. You will need this every time the VM is rebooted. Liquidware will not be able to recover your database appliance data if this password is misplaced.

6. Verify that you can log in to the web interface for the Hub.
7. Navigate to the **Hub Administration > Data Retention** tab and validate that the Database IP is correct.
8. Delete any snapshots that were created on the Database during setup.

## Install an SSL Certificate on a Stratusphere Database Appliance

To prepare the certificate request, complete the following initial steps:

1. On the Stratusphere Database appliance local console, log in using the following credentials:
  - **User ID:** `friend`
  - **Password:** `sspassword.`
2. Switch to the **root** user using the following command and enter the password when prompted. The default password is `sspassword.`

```
su -
```

3. Change to the following folder using the command:

```
cd /home/friend
```

4. Enter the following commands:

```
openssl genrsa 2048 > /var/lib/pgsql/current/data/server.key.2048  
cp /var/lib/pgsql/current/data/server.key /var/lib/pgsql/current/data/server.key.original
```

5. Generate a certificate request on the Stratusphere Database using the existing SSL Key.

```
openssl req -key /var/lib/pgsql/current/data/server.key.2048 -out dbcertrequest.csr -new -sha256
```

6. When prompted for common name, make sure you provide your database's fully qualified DNS name.

```
common name: <dbdnsname.domain.com>
```

7. The certificate request is generated in the following location:

```
/home/friend/dbcertrequest.csr
```

8. Change ownership of the file so that it accessible using the **friend** user.

```
chown friend:friend /home/friend/dbcertrequest.csr
```

9. Use WinSCP or FileZilla or similar software to download this certificate request `/home/friend/dbcertrequest.csr` file to your local desktop. In WinSCP or FileZilla, use the User ID `friend` and the password `sspasword` as credentials within the program. Use the SCP protocol with WinSCP (Port 22).
10. Provide this certificate request file to your security provider or Certifying Authority and request that they provide the SSL Certificate specifically in **base64 / PEM format**. For these instructions, call the SSL Certificate file `server.crt`. When you see references to `server.crt` in this document, you should substitute the actual name of the SSL Certificate file you received from your security provider or Certifying Authority.

**Important:** Pause here until you receive your SSL certificate from your provider, then complete the process using the following instructions.

11. Use WinSCP or FileZilla or similar software to upload the `server.crt` SSL Certificate file to your Stratusphere database in the `/home/friend/server.crt` location. In WinSCP or FileZilla, use the User ID `friend` and the password `sspasword` as credentials within the program. Use the SCP protocol with WinSCP (Port 22).



12. On the Stratusphere Database local console, while still logged in as the **root** user, make a copy the original SSL certificate as a backup:

```
cp /var/lib/pgsql/current/data/server.crt /var/lib/pgsql/current/data/server.crt.orig
```

13. Place the new key and certificate in place of the original and modify the file permissions as follows:

```
cp /var/lib/pgsql/current/data/server.key.2048 /var/lib/pgsql/current/data/server.key
mv /home/friend/server.crt /var/lib/pgsql/current/data/server.crt
chown postgres:postgres /var/lib/pgsql/current/data/server.crt
chmod 400 /var/lib/pgsql/current/data/server.crt
chown postgres:postgres /var/lib/pgsql/current/data/server.key
chmod 400 /var/lib/pgsql/current/data/server.key
```

14. Restart the database server to load the newly added SQL Certificate:

On versions prior to 6.5.0, use the following command:

```
/etc/init.d/postgresql<PRESS-TAB-KEY> restart
```

On versions 6.5.0 and higher, use the following command:

```
systemctl restart postgresql-12
```

## Collector Advanced Configuration

1. Power on the Collector appliance.
2. Set up the network configuration.
  - a. From the console complete the Network configuration wizard. **DO NOT** use DHCP.
  - b. Assign fixed IPv4 address.
  - c. Leave **IPv6 Auto Config** set to **Yes**.
3. Log in to the web interface for the Hub.

4. Navigate to the **Collector Administration > Collectors** tab and validate whether the Collector appliance is displayed in the list of Collectors.

## Install SSL Certificate on Stratusphere Collector Appliance

To prepare the certificate request, complete the following initial steps:

1. On the Stratusphere Collector appliance local console, log in using the following credentials:
  - **User ID:** `friend`
  - **Password:** `sspasword`.
2. Switch to the **root** user using the following command and enter the password when prompted. The default password is `sspasword`.

```
su -
```

3. Change to the following folder using the command:

```
cd /home/friend
```

4. Enter the following commands:

```
openssl genrsa 2048 > /etc/lwl/ssl/ssl.key.2048  
cp /etc/lwl/ssl/ssl.key /etc/lwl/ssl/ssl.key.original
```

5. Generate a certificate request on the Stratusphere Collector using the existing SSL Key.

```
openssl req -key /etc/lwl/ssl/ssl.key.2048 -out colcertrequest.csr -new -sha256
```

6. When prompted for common name, provide your Collector's fully qualified DNS name.

```
common name: <coldnsname.domain.com>
```

The certificate request is generated in the following location:

```
/home/friend/colcertrequest.csr
```

7. Change ownership of the file so that it accessible using the **friend** user.

```
chown friend:friend /home/friend/colcertrequest.csr
```

8. Use WinSCP or FileZilla or similar software download this certificate request `/home/friend/colcertrequest.csr` file to your local desktop. In WinSCP or FileZilla, use the User ID `friend` and password `sspassword` as credentials within the program. Use the SCP protocol with WinSCP (Port 22).
9. Provide this certificate request file to your security provider or Certifying Authority and request that they provide the SSL Certificate specifically in **base64 / PEM** format.
10. For these instructions, call the SSL Certificate file `colsslcert.crt`. When you see references to `colsslcert.crt` in this document, you should substitute the actual name of the SSL Certificate file you received from your security provider or Certifying Authority.

**Important:** Pause here until you receive your SSL certificate from your provider, then complete the process using the following instructions.

11. Use WinSCP or FileZilla or similar software to upload the `colsslcert.crt` SSL Certificate file to your Stratusphere Hub in the `/home/friend/colsslcert.crt` location. In WinSCP or FileZilla, use the User ID `friend` and the password `sspassword` as credentials within the program. Use the SCP protocol with WinSCP (Port 22).
12. On the Stratusphere Collector local console, while still logged in as the **root** user, make a copy the original SSL certificate as a backup:

```
cp /etc/lwl/ssl/ssl.crt /etc/lwl/ssl/ssl.crt.orig
```

13. Place the new key and certificate in place of the original and modify the file permissions as follows:

```
cp /etc/lwl/ssl/ssl.key.2048 /etc/lwl/ssl/ssl.key
mv /home/friend/colsslcrt.crt /etc/lwl/ssl/ssl.crt
chown root:root /etc/lwl/ssl/ssl.crt
chmod 644 /etc/lwl/ssl/ssl.crt
chmod 640 /etc/lwl/ssl/ssl.key
restorecon -RF /etc/lwl/ssl
```

14. Restart the Collector to load the newly added SSL Certificate.

15. On versions up to 6.1.1, use the following command:

```
/etc/init.d/httpd restart
```

On versions 6.1.3 to 6.1.5, use the following command:

```
/etc/init.d/lwl-httpd24 restart
```

On versions 6.5.0 and higher, use the following command:

```
systemctl restart httpd
```

## Enable Enhanced Security Configuration

After the Stratusphere Hub and Database appliances are joined together and are communicating with each other, you can enable the Enhanced Security configuration option for each appliance. This option implements all the STIGs on the appliance.

Immediately after enabling Enhanced Security, all existing passwords for the **friend**, **root**, and **ssconsole** users are immediately set to expired status, and all users need to be prepared to update these user passwords with new, complex passwords as per STIG guidelines. The STIG password definitions are stored within `/etc/login.defs`. The default settings for that file are as follows:

- Maximum number of days a password can be used.

```
PASS_MAX_DAYS 60
```

- Minimum number of days a password can be used.

```
PASS_MIN_DAYS 1
```

- Minimum acceptable password length.

```
PASS_MIN_LEN 15
```

- Number of days warning given before a password expires.

```
PASS_WARN_AGE 7
```

- The STIG password complexity or quality definitions are stored within `/etc/security/pwquality.conf`. The default settings for that file are as follows:

- The number of characters in the new password that must not be present in the old password.

```
difok = 8
```

- The minimum acceptable size for the new password. Cannot be set to lower value than 6.

```
minlen = 15
```

- The maximum credit for having digits in the new password. If less than 0, it is the minimum number of digits in the new password.

```
dcredit = -1
```

- The maximum credit for having uppercase characters in the new password. If less than 0, it is the minimum number of uppercase characters in the new password.

```
ucredit = -1
```

- The maximum credit for having lowercase characters in the new password. If less than 0, it is the minimum number of lowercase characters in the new password.

```
lcredit = -1
```

- The maximum credit for having other characters in the new password. If less than 0, it is the minimum number of other characters in the new password.

```
ocredit = -1
```

- The minimum number of required classes of characters for the new password (digits, uppercase, lowercase, others).

```
minclass = 4
```

- The maximum number of allowed consecutive same characters in the new password. The check is disabled if the value is 0.

```
maxrepeat = 3
```

- The maximum number of allowed consecutive characters of the same class in the new password. The check is disabled if the value is 0.

```
maxclassrepeat = 4
```

- Whether to check for the words from the passwd entry GECOS string of the user. The check is enabled if the value is not 0.

```
gecoscheck = 0
```

- Whether to check for the words from the cracklib dictionary. The check is enabled if the value is not 0.

```
dictcheck = 1
```

- Whether to check if it contains the user name in some form. The check is enabled if the value is not 0.

```
usercheck = 1
```

- Whether the check is enforced by the PAM module and possible other applications. The password is rejected if it fails the check and the value is not 0.

```
enforcing = 1
```

- The maximum number of allowed consecutive characters of the same class in the new password.

```
dictpath =
```

In addition, the following items go into effect automatically when Enhance Security is enabled on the Stratusphere Appliances:

- Password complexity & expiration rules are enabled.
- Issue notifications are turned on in the user interface before logging.
- IPV6 is turned off.
- A “For Official Use Only” messaging displays in the footer of the user interface.
- Security-Enhanced Linux (SELinux) Auditing is turned on, which saves log files to `/var/log/audit`.
- Access is restricted to port 5432. For the Hub appliance, only the localhost can log in. For the Database appliance, only the Hub can log in.

**Important:** All Collector appliances should be added to the installation **after** Enhanced Security is enabled on the Hub and Database.

1. Open a command line console to the Stratusphere Hub appliance.
2. Log in to the Hub console using credentials provided for the **ssconsole** user. The default password is `sspassword`.
3. In the main menu, type **E** to select the **E) Enable enhanced security** option, then press **Enter**.

```
=====
Liquidware Stratusphere Hub Appliance Menu
=====
N) Network Configuration
U) Update Software Menu
D) Database Utilities
M) Migrate certs, settings & data from remote appliance

S) Software Services
P) Passwords

E) Enable enhanced security

Q) Quit

Your Choice? E_
```

The Hub appliance can now enable many STIGs and is in enhanced security configuration. It should reboot automatically after it finishes applying all the STIGs.

4. Open a command line console to the Stratusphere Database appliance.
5. Log in to the Database console using credentials provided for the **ssconsole** user. The default password is `sspassword`.
6. In the main menu, type **E** to select the **E) Enable enhanced security** option, then press **Enter**.

```
=====
Liquidware Stratusphere Database Appliance Menu
=====

N) Network Configuration
U) Update Software Menu (0 updates available)
D) Database Appliance Utilities (Wizard/Join/More)
M) Migrate certs, settings & data from remote appliance

S) Software Services
P) Passwords

E) Enable enhanced security

Q) Quit

** Please change the root password (option 'p')

Your Choice? E_
```

The Database appliance can now enable many STIGs and is in enhanced security configuration. It should reboot automatically after it finishes applying all the STIGs.

7. Open a command line console to the Stratusphere Collector appliance.
8. Log in to the Collector console using credentials provided for the **ssconsole** user. The default password is `sspassword`.
9. In the main menu, type **E** to select the **E) Enable enhanced security** option, then press **Enter**.

```
=====
Liquidware Stratusphere Collector Appliance Menu
=====

N) Network Configuration
U) Update Software Menu (0 updates available)

S) Software Services
P) Passwords

E) Enable enhanced security

Q) Quit

Your Choice? E_
```

The Collector appliance can now enable many STIGs and is in enhanced security configuration. It should reboot automatically after it finishes applying all the STIGs.



## Enable CAC Authentication

After Enhanced Security is enabled on the Stratusphere Hub and Database appliances, you can download, install, and enable the CAC Authentication module for the Hub appliance. This module enables and then requires a CAC Authentication certificate to be presented to access Stratusphere's Web UI.

**Important:** Make sure you have enabled Enhanced Security on the Hub appliance prior to proceeding.

1. Log out of all Stratusphere Web UI sessions.

Stratusphere recommends taking a snapshot of the Hub appliance for safety before proceeding.

2. Complete the following steps on the Stratusphere Hub appliance:

- a. Open a command line console to the appliance.
- b. Log in by entering the User ID `friend` followed by your enhanced security STIG compliant password.
- c. Enter the command `su -` and then enter your enhanced security STIG compliant password to switch to **root**.
- d. Execute the following commands to install the CAC Authentication module:

```
yum install -y --allowerase --disablerepo=lwl /opt/lwl/rpms/lwl-stig-base-dod-cac-*.rpm
```

```
reboot
```

3. After the Stratusphere Hub appliance reboots, wait for about **10-15** minutes for all the services on the Stratusphere Hub to start, especially the Web UI.
4. You will now need a valid CAC to authenticate with the Web UI through a browser. Bring up the browser of your choice and navigate to the Stratusphere Web UI address. The browser will ask you to choose a client certificate and will list either an **ID** or an **Email** certificate. Depending on the type of client certificate you select, one of the following will occur:
  - If you select the **ID** type certificate, access to the Stratusphere Web UI Login page will be granted. There may not be enough information available on the ID certificate

to auto-log you in.

- If you select an **Email** type certificate and that certificate is associated with a user-PrincipalName attribute within a synced Active Directory, and you have been granted a User or Administrative role within Stratusphere, you will be transparently logged into the Stratusphere Web UI.
- If you try to access the Stratusphere Web UI Login page without a supported client certificate, the browser will display a Bad SSL Client Authentication Certificate error.

## CAC Certificate Revocation List Configuration

After **Enhanced Security** is enabled and **CAC Authentication** is enabled on the Stratusphere Hub, you can update and customize how and where the Hub verifies whether the certificate is on the Certificate Revocation List (CRL). The Hub supports the following two mechanisms of checking validity of a certificate against a CRL:

- **Online Service:** In this **recommended** mechanism, the Hub is configured to use a remote service to check the certificate against a hosted CRL.
- **Downloaded CRL:** In this legacy mechanism, the Hub is configured to download a Certificate Revocation List (CRL) at a configurable frequency and check each certificate whether it is revoked.

### Configuring a Hub to Use an Online Service (recommended)

The Hub can be configured to use the OCSP service to look up the validity of a certificate. To configure the service, complete the following steps on the Stratusphere Hub appliance:

1. Open a command line console to the Stratusphere Hub appliance.
2. Log in by entering the User ID `friend` followed by your enhanced security STIG compliant password.
3. Enter the command `su -` and then enter your enhanced security STIG compliant password to switch to **root**.
4. Use the `vi` command to edit the `/etc/lwl/httpd/conf.d/clientcerts.conf` file.  

```
vi /etc/lwl/httpd/conf.d/clientcerts.conf
```
5. To enable the network OCSP service, uncomment the three lines shown below by deleting the `#` symbol before each one.

```
SSLVerifyDepth 10

SSLCACertificateFile /etc/lwl/httpd/cacerts/dod-root-certs.pem

#SSLCACertificateFile /etc/lwl/httpd/cacerts/dod-root-certs-jitc.pem

#SSLCACertificateFile /etc/lwl/httpd/cacerts/dod-root-certs-eca.pem

#

# uncomment and update below if a self-contained CRL is provided

#SSLCARevocationFile /etc/lwl/httpd/crls/crllist.crl

#

#uncomment and update or add new lines to use a network OCSP server

#SSLOCSPEnable on

#SSLOCSPDefaultResponder http://ocspserver:ocspport

#SSLOCSPOverrideResponder on
```

6. Type the `/` symbol to search for the `SSLOCSPEnable` string.
7. When found, press the **Delete** key to remove only the `#` at the beginning of the first line, as well on the next two lines to enable OCSP and configure it.
8. Enter **Insert** or **Append** mode by typing either the letter `i` or `a`.
9. Update the `SSLOCSPDefaultResponder` URL to your preferred or custom URL as needed.
10. Press the **Escape** key and type `:wq!` to **write** and **quit**.
11. Restart the Apache Web Server for the new settings to take effect.

On versions up to 6.1.1, use the following command:

```
/etc/init.d/httpd restart
```

On versions 6.1.3 to 6.1.5, use the following command:

```
/etc/init.d/lwl-httpd24 restart
```

On versions 6.5.0 and higher, use the following command:

```
systemctl restart httpd
```

12. Press **CTRL+D** twice to log out of the console.

When a security card is presented, the Web Browser UI will forward the certificate to the Stratusphere Hub for authentication and verification and the Hub will forward the information to this URL for checking revocation status and control granting or revoking access to the Stratusphere Web UI.

## Configuring a Hub to Download a CRL Locally

The Hub is not configured by default to connect to a publicly available DoD designated URL to download the updated CRL. Liquidware has noticed that this publicly available URL might not always be reliable and, thus, provides instructions on replacing this URL with an internal URL that might be more reliable. If a URL is configured, then the Hub can download the updated CRL every day after 1:00am UTC on a scheduled basis.

**Note:** The Hub expects the target of the URL to be a ZIP file containing one or more CRL files.

To update the URL to download the CRL, complete the following steps on the Stratusphere Hub appliance:

1. Open a command line console to the Stratusphere Hub appliance.
2. Log in by entering the User ID `friend` followed by your enhanced security STIG compliant password.
3. Enter the command `su -` and then enter your enhanced security STIG compliant password to switch to **root**.
4. Use the `vi` command to edit the `/etc/tntdb.conf` file.  

```
vi /etc/tntdb.conf
```
5. Type the `/` symbol to search for the `CRL_UPDATE_URLS` string.
6. Enter **Insert** or **Append** mode by typing either the letter `i` or `a`.
7. Update the URL to your preferred, custom URL as needed.
8. Press the **Escape** key and enter `:wq!` to **write** and **quit**.
9. Press **CTRL+D** twice to log out of the console.
10. When the scheduled event triggers, the Hub will read this updated URL and download the CRL from this new location.

To update the schedule or frequency of downloading the CRL, complete the following steps on the Stratusphere Hub appliance:

**Important:** The schedule is stored in `/etc/crontab` on the Stratusphere Hub. Only make changes to this cron job if you are aware of how cron works.

1. Open a command line console to the Stratusphere Hub appliance.
2. Log in by entering the User ID `friend` followed by your enhanced security STIG compliant password.
3. Enter the command `su -` and then enter your enhanced security STIG compliant password to switch to **root**.
4. Use the `vi` command to edit the `/etc/crontab` file.  

```
vi /etc/crontab
```
5. Type the `/` symbol to search for the `update_crls.sh` string.
6. Enter **Insert** or **Append** mode by typing either the letter `i` or `a`.
7. Update the schedule as you prefer. The default setting of `0 1 * * *` denotes, once every day after 1:00am UTC time. The script randomizes the exact time of download to be anytime within 1 hour of being launched.
8. Press the **Escape** key and enter `:wq!` to **write** and **quit**.
9. Press **CTRL+D** twice to log out of the console.

The Hub will then start triggering the download of the CRL based on this new frequency.

## Enable Privacy: Anonymizing User and Machine Names

Liquidware understands and respects privacy related issues and concerns of its users across the world. Whether it may be due to government regulations or some organizations ensuring privacy of its users, there are legitimate requirements for enabling the option to anonymize end user names and machine names within Stratusphere.

Liquidware offers the ability to totally anonymize end user names and machine names within Stratusphere. After this privacy mode is enabled, each newly registered user name and machine within the Stratusphere Database will be anonymized in a single one-way hash. Any user and machine that registered prior to enabling privacy mode will remain visible in plain text. Enabling privacy mode only works for users and machines that register from that point forward

and does NOT work to hash user and machine names registered before enabling privacy mode.

**Important:** The anonymized conversion in Privacy mode is permanent and cannot be undone. Usernames and machines that existed prior to turning on privacy mode will still be stored in plain text.

Privacy mode can be disabled. Any user name and machine name registration received after disabling privacy mode will be stored in plain text and will not be hashed.

**Important:** After Privacy mode is enabled, the user and machine names already anonymized stay anonymized permanently even if Privacy mode is disabled at a later date.

Using the privacy mode might make Stratusphere reporting harder to read and follow because the end user will only see randomized pieces of text representing users and machines instead of the *actual* user names and machine names.

To enable Privacy mode, complete the following steps:

1. Using an SSH client like PuTTY (or Microsoft Windows 10 Command Prompt for AWS and Azure), log in to the Stratusphere Hub console using credentials for the **friend** user.
2. Then use credentials for the **root** user to switch to the **root** using the `su -` command. Unless changed, the default password for both users is `sspassword`.
3. Execute the following command to invoke a limited shell prompt:

```
/opt/tnt/bin/mgrconfig
```

4. On the new shell prompt, execute the following commands to anonymize user and/or machine names within the Stratusphere Database:

```
set system user privacy on  
set system machine privacy on
```

5. To save and quit, enter the following commands:

```
write  
quit
```

6. Press **CTRL+D** twice to log out of the **root** and **friend** SSH sessions and quit the SSH client.
7. At this point, Stratusphere begins its anonymizing process, which can take some time. After it is complete, log in to the Administration section of the Stratusphere Web UI and navigate to the **Inventory > Machines** and **Inventory > Users** tabs to verify that the names have been anonymized.

To disable Privacy mode, complete the following steps:

1. Using an SSH client like PuTTY, log in to the Stratusphere Hub console using credentials for the **friend** user.
2. Then use credentials for the **root** user to switch to the **root** using the `su -` command. Unless changed, the default password for both users is `sspassword`.
3. Execute the following command to invoke a limited shell prompt:

```
/opt/tnt/bin/mgrconfig
```

4. On the new shell prompt, execute the following commands to disable anonymizing user and/or machine names within the Stratusphere Database:

```
set system user privacy off  
set system machine privacy off
```

5. To save and quit enter the following commands:

```
write  
quit
```

6. Press **CTRL+D** twice to log out of **root** and **friend** SSH sessions and quit the SSH client.

All users and machines registering for the first time since disabling privacy mode will show up as plain text and will not be hashed. Users and machines that were previously anonymized under Privacy mode will remain anonymized.

## SSL and TLS Settings

Stratusphere 6.5.x and higher appliances are configured with TLSv1.2 and TLSv1.3 out of the box. If you are already on this version, you can choose to skip this section and jump to the next section.

However, older versions of Stratusphere appliances supported older versions of SSL and TLS to allow for maximum compatibility with certain older Microsoft Windows-based machines still stuck on legacy browsers such as Internet Explorer. On older Microsoft Windows based machines, the CID Key also uses the existing Microsoft Internet Explorer downloading framework, forcing Stratusphere to ship with older versions of SSL and TLS for maximum compatibility. If legacy versions of browsers are still in use, these settings need to stay in place. However, if all of the legacy browsers have all been phased out, these configuration settings can and should be hardened for a more secure posture. The configuration settings must be updated manually on the Hub and each Collector appliance installed.

Here are instructions on how to edit the configuration file on the Hub and each Collector to change these settings:

1. On the Stratusphere Hub and each Collector appliance:
  - a. Open a command line console to the appliance.
  - b. Log in by entering the User ID `friend` followed by your enhanced security STIG compliant password.
  - c. Enter the command `su -` and then enter your enhanced security STIG compliant password to switch to **root**.

2. Enter the command `vi` to edit the `/etc/lwl/httpd/httpd.conf` file.

```
vi /etc/lwl/httpd/httpd.conf
```

3. Use the `/` key to type and search for the `SSLProtocol` string. Note that this is case sensitive.
4. When found, go into **Insert** or **Append** mode by typing either the letter `i` or `a`.
5. Update the default line from `SSLProtocol All -SSLv2 -SSLv3` to `SSLProtocol TLSv1.2`

This will enable only TLS v1.2 on the Stratusphere appliance.

6. Use the **Escape** key and enter `:wq!` to **write** and **quit**.
7. Restart the Web Server to load the newly updated settings.



On versions up to 6.1.1, use the following command:

```
/etc/init.d/httpd restart
```

On versions 6.1.3 to 6.1.5, use the following command:

```
/etc/init.d/lwl-httpd24 restart
```

On versions 6.5.0 and higher, use the following command:

```
systemctl restart httpd
```

8. Press **CTRL+D** twice to log out of the console.

## Install Connector ID Keys (Desktop Agents)

To install Connector ID Keys for desktop agents, complete the following steps:

1. Download the CID installer from the Hub's web interface and install it on desktops / base image for VDI.
2. Navigate to **Administration > Inventory Machines** and make sure the CID registers the desktops with the Hub.

## CID Key Encryption

The CID Key uses straight SSL (TCP/443 with TLS 1.2) for communication with the Stratusphere Hub based on the URI located within the `mgrcert.pem` file. All communications are signed using public private keys generated by the CID Key and Hub. The CID Key generates a 2048-bit RSA public private key pair and provides the public key to the Stratusphere Hub during registration. The Hub validates the CID Key on the newly registered machine based on host name and proceeds with the registration process by providing an X.509 based `cert.txt` file that contains settings for the CID Key within custom option fields. The CID Key receives the `cert.txt` file from the Hub and uses the Hub's public key within the `mgrcert.pem` to verify it came from the Hub, and if so, goes ahead and begins using the new configuration settings within the `cert.txt`. From this point forward, the CID Key uses its private key to sign the payload it transmits to the Stratusphere Hub. The Hub uses the public key of the CID Key on that machine to validate it came from that CID Key on that machine before proceeding. All of this communication is within an encrypted SSL connection on TCP/443 using TLS 1.2.

## Webserver Accounts and Usage

### Accounts with Login Privileges

Account	UID	GID	Required	Role
friend	500	501	Yes	ssh access
root	0	0	Yes	root account
ssconsole	501	502	Yes	appliance configuration

### Accounts Without Login Privileges (Internal System Accounts)

The following accounts are required for services, but do not have login privileges.

Account	Required	Notes
adm	Yes	
apache	Yes	
audit	Yes	
bin	Yes	
clam	Yes	
cntrlm	Yes	
daemon	Yes	
dbus	Yes	
distcache	Yes	
haldaemon	Yes	
identity	Yes	
impadmin	Yes	
lp	Yes	
mail	Yes	
mnobody	Yes	
munin	Yes	
nobody	Yes	
nscd	Yes	
ntp	Yes	
operator	Yes	
postfix	Yes	
postgres	Yes	
rrdcached	Yes	
saslauth	Yes	
sshd	Yes	

Account	Required	Notes
sync	No	No password set
tomcat	Yes	
unbound	Yes	
uucp	Yes	
vcsa	Yes	
vsservice	Yes	

## Stratusphere Hub Appliance Installed Packages

- 1 acl-2.2.53-1.el8.x86\_64
- 2 aide-0.16-14.el8\_5.1.x86\_64
- 3 alsa-lib-1.2.5-4.el8.x86\_64
- 4 apache-commons-cli-1.4-4.module+el8+5161+5cac467c.noarch
- 5 apache-commons-codec-1.13-3.module\_el8.2.0+364+b808f688.noarch
- 6 apache-commons-collections-3.2.2-10.module\_el8.2.0+315+896aef55.noarch
- 7 apr-1.6.3-12.el8.x86\_64
- 8 apr-util-1.6.1-6.el8.x86\_64
- 9 apr-util-bdb-1.6.1-6.el8.x86\_64
- 10 apr-util-openssl-1.6.1-6.el8.x86\_64
- 11 armadillo-9.700.2-1.el8.x86\_64
- 12 arpack-3.7.0-1.el8.x86\_64
- 13 atk-2.28.1-1.el8.x86\_64
- 14 atlas-3.10.3-8.el8.x86\_64
- 15 audispd-plugins-3.0-0.17.20191104git1c2f876.el8.x86\_64
- 16 audit-3.0-0.17.20191104git1c2f876.el8.x86\_64
- 17 audit-libs-3.0-0.17.20191104git1c2f876.el8.x86\_64
- 18 authselect-1.2.2-3.el8.x86\_64
- 19 authselect-compat-1.2.2-3.el8.x86\_64
- 20 authselect-libs-1.2.2-3.el8.x86\_64
- 21 avahi-libs-0.7-20.el8.x86\_64
- 22 basesystem-11-5.el8.noarch
- 23 bash-4.4.20-2.el8.x86\_64
- 24 bc-1.07.1-5.el8.x86\_64
- 25 bind-export-libs-9.11.26-6.el8.x86\_64
- 26 binutils-2.30-108.0.2.el8\_5.1.x86\_64
- 27 blas-3.8.0-8.el8.x86\_64
- 28 boost-atomic-1.66.0-10.el8.x86\_64
- 29 boost-chrono-1.66.0-10.el8.x86\_64
- 30 boost-date-time-1.66.0-10.el8.x86\_64
- 31 boost-serialization-1.66.0-10.el8.x86\_64
- 32 boost-system-1.66.0-10.el8.x86\_64
- 33 boost-thread-1.66.0-10.el8.x86\_64
- 34 bridge-utils-1.7.1-2.el8.x86\_64
- 35 brotli-1.0.6-3.el8.x86\_64

36 bzip2-1.0.6-26.el8.x86\_64  
37 bzip2-libs-1.0.6-26.el8.x86\_64  
38 ca-certificates-2021.2.50-80.0.el8\_4.noarch  
39 cairo-1.15.12-3.el8.x86\_64  
40 c-ares-1.13.0-5.el8.x86\_64  
41 centos-gpg-keys-8-2.el8.noarch  
42 cfitsio-3.47-1.el8.x86\_64  
43 CGAL-4.14-1.rhel8.x86\_64  
44 checkpolicy-2.9-1.el8.x86\_64  
45 chkconfig-1.19.1-1.0.1.el8.x86\_64  
46 chkrootkit-0.50-4el7.x86\_64  
47 chrony-4.1-1.0.1.el8.x86\_64  
48 cjkuni-ukai-fonts-0.2.20080216.1-51.el7.noarch  
49 cjkuni-uming-fonts-0.2.20080216.1-53.el7.noarch  
50 clamav-0.103.1-3.el8.x86\_64  
51 clamav-data-0.103.1-3.el8.noarch  
52 clamav-filesystem-0.103.1-3.el8.noarch  
53 clamav-lib-0.103.1-3.el8.x86\_64  
54 clamav-update-0.103.1-3.el8.x86\_64  
55 cntlm-0.92.3-1.x86\_64  
56 conntrack-tools-1.4.4-10.el8.x86\_64  
57 copy-jdk-configs-4.0-2.el8.noarch  
58 coreutils-8.30-12.0.1.el8.x86\_64  
59 coreutils-common-8.30-12.0.1.el8.x86\_64  
60 cpio-2.12-10.el8.x86\_64  
61 cracklib-2.9.6-15.el8.x86\_64  
62 cracklib-dicts-2.9.6-15.el8.x86\_64  
63 cronie-1.5.2-4.el8.x86\_64  
64 cronie-anacron-1.5.2-4.el8.x86\_64  
65 crontabs-1.11-17.20190603git.el8.noarch  
66 crypto-policies-20210617-1.gitc776d3e.el8.noarch  
67 crypto-policies-scripts-20210617-1.gitc776d3e.el8.noarch  
68 cryptsetup-2.3.3-4.el8\_5.1.x86\_64  
69 cryptsetup-libs-2.3.3-4.el8\_5.1.x86\_64  
70 cups-libs-2.2.6-40.el8.x86\_64  
71 curl-7.61.1-22.el8.x86\_64  
72 cyrus-sasl-lib-2.1.27-5.el8.x86\_64  
73 dbus-1.12.8-14.0.1.el8.x86\_64

74      dbus-common-1.12.8-14.0.1.el8.noarch  
75      dbus-daemon-1.12.8-14.0.1.el8.x86\_64  
76      dbus-glib-0.110-2.el8.x86\_64  
77      dbus-libs-1.12.8-14.0.1.el8.x86\_64  
78      dbus-tools-1.12.8-14.0.1.el8.x86\_64  
79      dejavu-fonts-common-2.35-7.el8.noarch  
80      dejavu-sans-mono-fonts-2.35-7.el8.noarch  
81      device-mapper-1.02.177-10.el8.x86\_64  
82      device-mapper-libs-1.02.177-10.el8.x86\_64  
83      dhcp-client-4.3.6-45.el8.x86\_64  
84      dhcp-common-4.3.6-45.el8.noarch  
85      dhcp-libs-4.3.6-45.el8.x86\_64  
86      diffutils-3.6-6.el8.x86\_64  
87      dmidecode-3.2-10.0.1.el8.x86\_64  
88      dnf-4.7.0-4.0.1.el8.noarch  
89      dnf-automatic-4.7.0-4.0.1.el8.noarch  
90      dnf-data-4.7.0-4.0.1.el8.noarch  
91      dnf-plugins-core-4.0.21-4.0.1.el8\_5.noarch  
92      dracut-049-191.git20210920.0.1.el8.x86\_64  
93      dracut-config-rescue-049-191.git20210920.0.1.el8.x86\_64  
94      dracut-network-049-191.git20210920.0.1.el8.x86\_64  
95      dracut-squash-049-191.git20210920.0.1.el8.x86\_64  
96      dwz-0.12-10.el8.x86\_64  
97      e2fsprogs-1.45.6-2.el8.x86\_64  
98      e2fsprogs-libs-1.45.6-2.el8.x86\_64  
99      ed-1.14.2-4.el8.x86\_64  
100     efi-srpm-macros-3-3.0.1.el8.noarch  
101     elfutils-0.185-1.el8.x86\_64  
102     elfutils-debuginfod-client-0.185-1.el8.x86\_64  
103     elfutils-default-yama-scope-0.185-1.el8.noarch  
104     elfutils-libelf-0.185-1.el8.x86\_64  
105     elfutils-libs-0.185-1.el8.x86\_64  
106     elrepo-release-8.2-1.el8.elrepo.noarch  
107     emacs-filessystem-26.1-7.el8.noarch  
108     epel-release-8-13.el8.noarch  
109     ethtool-5.8-7.el8.x86\_64  
110     expat-2.2.5-4.el8.x86\_64  
111     expect-5.45.4-5.el8.x86\_64

112 fapolicyd-1.0.2-6.0.1.el8.x86\_64  
113 fapolicyd-selinux-1.0.2-6.0.1.el8.noarch  
114 file-5.33-20.el8.x86\_64  
115 file-libs-5.33-20.el8.x86\_64  
116 filesystem-3.8-3.el8.x86\_64  
117 findutils-4.6.0-20.el8.x86\_64  
118 fipscheck-1.5.0-4.el8.x86\_64  
119 fipscheck-lib-1.5.0-4.el8.x86\_64  
120 firewalld-filesystem-0.9.3-7.0.2.el8.noarch  
121 fontconfig-2.13.1-3.el8.x86\_64  
122 fontpackages-filesystem-1.44-22.el8.noarch  
123 freetype-2.9.1-4.el8\_3.1.x86\_64  
124 freexl-1.0.6-1.el8.x86\_64  
125 fribidi-1.0.4-8.el8.x86\_64  
126 fuse-2.9.7-12.0.3.el8.x86\_64  
127 fuse-common-3.2.1-12.0.3.el8.x86\_64  
128 fuse-libs-2.9.7-12.0.3.el8.x86\_64  
129 gawk-4.2.1-2.el8.x86\_64  
130 gc-7.6.4-3.el8.x86\_64  
131 GConf2-3.2.6-22.el8.x86\_64  
132 gd-2.0.35-26.el7.x86\_64  
133 gdal33-libs-3.3.3-1.rhel8.x86\_64  
134 gdb-headless-8.2-15.0.1.el8.x86\_64  
135 gdbm-1.18-1.el8.x86\_64  
136 gdbm-libs-1.18-1.el8.x86\_64  
137 gdisk-1.0.3-6.el8.x86\_64  
138 gdk-pixbuf2-2.36.12-5.el8.x86\_64  
139 gdk-pixbuf2-modules-2.36.12-5.el8.x86\_64  
140 geolite2-city-20180605-1.el8.noarch  
141 geolite2-country-20180605-1.el8.noarch  
142 geos39-3.9.2-1.rhel8.x86\_64  
143 gettext-0.19.8.1-17.el8.x86\_64  
144 gettext-libs-0.19.8.1-17.el8.x86\_64  
145 ghc-srpm-macros-1.4.2-7.el8.noarch  
146 giflib-5.1.4-3.el8.x86\_64  
147 glib2-2.56.4-156.el8.x86\_64  
148 glibc-2.28-164.0.1.el8.x86\_64  
149 glibc-common-2.28-164.0.1.el8.x86\_64

150 glibc-langpack-en-2.28-164.0.1.el8.x86\_64  
151 glx-utils-8.4.0-5.20181118git1830dcb.el8.x86\_64  
152 gmp-6.1.2-10.el8.x86\_64  
153 gnupg2-2.2.20-2.el8.x86\_64  
154 gnupg2-smime-2.2.20-2.el8.x86\_64  
155 gnutls-3.6.16-4.el8.x86\_64  
156 gobject-introspection-1.56.1-1.el8.x86\_64  
157 go-srpm-macros-2-17.el8.noarch  
158 gpgme-1.13.1-9.el8.x86\_64  
159 gpg-pubkey-00f97f56-467e318a  
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169 gpg-pubkey-ad986da3-5cabf60d  
170 gpg-pubkey-baadae52-49beffa4  
171 gpg-pubkey-bbae6f1b-5c790651  
172 gpsbabel-1.6.0-3.el8.x86\_64  
173 graphite2-1.3.10-10.el8.x86\_64  
174 grep-3.1-6.el8.x86\_64  
175 groff-base-1.22.3-18.el8.x86\_64  
176 grub2-common-2.02-106.0.1.el8.noarch  
177 grub2-pc-2.02-106.0.1.el8.x86\_64  
178 grub2-pc-modules-2.02-106.0.1.el8.noarch  
179 grub2-tools-2.02-106.0.1.el8.x86\_64  
180 grub2-tools-efi-2.02-106.0.1.el8.x86\_64  
181 grub2-tools-extra-2.02-106.0.1.el8.x86\_64  
182 grub2-tools-minimal-2.02-106.0.1.el8.x86\_64  
183 grubby-8.40-42.0.1.el8.x86\_64  
184 gtk2-2.24.32-5.el8.x86\_64  
185 gtk-update-icon-cache-3.22.30-8.el8.x86\_64  
186 guile-2.0.14-7.el8.x86\_64  
187 gzip-1.9-12.el8.x86\_64



188 hardlink-1.3-6.el8.x86\_64  
189 harfbuzz-1.7.5-3.el8.x86\_64  
190 hdf-4.2.14-5.el8.x86\_64  
191 hdf5-1.10.5-4.el8.x86\_64  
192 hdparm-9.54-3.el8.x86\_64  
193 hicolor-icon-theme-0.17-2.el8.noarch  
194 hostname-3.20-6.el8.x86\_64  
195 httpd-2.4.37-43.0.2.module+el8.5.0+20470+f38d0c8f.x86\_64  
196 httpd-filesystem-2.4.37-43.0.2.module+el8.5.0+20470+f38d0c8f.noarch  
197 httpd-tools-2.4.37-43.0.2.module+el8.5.0+20470+f38d0c8f.x86\_64  
198 hwdata-0.314-8.8.el8.noarch  
199 ima-evm-utils-1.3.2-12.el8.x86\_64  
200 info-6.5-6.el8.x86\_64  
201 initscripts-10.00.15-1.el8.x86\_64  
202 ipa-gothic-fonts-003.03-5.el7.noarch  
203 ipa-mincho-fonts-003.03-5.el7.noarch  
204 ipa-pgothic-fonts-003.03-5.el7.noarch  
205 ipa-pmincho-fonts-003.03-5.el7.noarch  
206 ipcalc-0.2.4-4.el8.x86\_64  
207 iproute-5.9.0-4.el8.x86\_64  
208 iprutils-2.4.19-1.el8.x86\_64  
209 ipset-7.1-1.el8.x86\_64  
210 ipset-libs-7.1-1.el8.x86\_64  
211 iptables-1.8.4-20.0.1.el8.x86\_64  
212 iptables-libs-1.8.4-20.0.1.el8.x86\_64  
213 iptables-services-1.8.4-20.0.1.el8.x86\_64  
214 iputils-20180629-7.el8.x86\_64  
215 irqbalance-1.4.0-6.el8.x86\_64  
216 jansson-2.11-3.el8.x86\_64  
217 jasper-libs-2.0.14-5.el8.x86\_64  
218 java-1.8.0-openjdk-1.8.0.322.b06-2.el8\_5.x86\_64  
219 java-1.8.0-openjdk-devel-1.8.0.322.b06-2.el8\_5.x86\_64  
220 java-1.8.0-openjdk-headless-1.8.0.322.b06-2.el8\_5.x86\_64  
221 javapackages-filesystem-5.3.0-1.module+el8+5136+7ff78f74.noarch  
222 jbigkit-libs-2.1-14.el8.x86\_64  
223 jq-1.5-12.el8.x86\_64  
224 json-c-0.13.1-2.el8.x86\_64  
225 kbd-2.0.4-10.el8.x86\_64

226 kbd-legacy-2.0.4-10.el8.noarch  
227 kbd-misc-2.0.4-10.el8.noarch  
228 kernel-4.18.0-348.12.2.el8\_5.x86\_64  
229 kernel-core-4.18.0-348.12.2.el8\_5.x86\_64  
230 kernel-modules-4.18.0-348.12.2.el8\_5.x86\_64  
231 kernel-tools-4.18.0-348.12.2.el8\_5.x86\_64  
232 kernel-tools-libs-4.18.0-348.12.2.el8\_5.x86\_64  
233 kexec-tools-2.0.20-57.0.3.el8.x86\_64  
234 keyutils-libs-1.5.10-6.el8.x86\_64  
235 kmod-25-17.0.1.el8.x86\_64  
236 kmod-libs-25-17.0.1.el8.x86\_64  
237 kpartx-0.8.4-10.el8.x86\_64  
238 krb5-libs-1.18.2-8.3.el8\_4.x86\_64  
239 lapack-3.8.0-8.el8.x86\_64  
240 lcms2-2.9-2.el8.x86\_64  
241 ldns-1.7.0-21.el8.x86\_64  
242 less-530-1.el8.x86\_64  
243 libacl-2.2.53-1.el8.x86\_64  
244 libaec-1.0.2-3.el8.x86\_64  
245 libarchive-3.3.3-1.el8.x86\_64  
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247 libatomic\_ops-7.6.2-3.el8.x86\_64  
248 libattr-2.4.48-3.el8.x86\_64  
249 libbabeltrace-1.5.4-3.el8.x86\_64  
250 libbasicobjects-0.1.1-39.el8.x86\_64  
251 libblkid-2.32.1-28.el8.x86\_64  
252 libbsd-0.9.1-4.el8.x86\_64  
253 libcap-2.26-4.el8.x86\_64  
254 libcap-ng-0.7.9-5.el8.x86\_64  
255 libcap-ng-utils-0.7.9-5.el8.x86\_64  
256 libcollection-0.7.0-39.el8.x86\_64  
257 libcom\_err-1.45.6-2.el8.x86\_64  
258 libcomps-0.1.16-2.el8.x86\_64  
259 libcroco-0.6.12-4.el8\_2.1.x86\_64  
260 libcurl-7.61.1-22.el8.x86\_64  
261 libdap-3.19.1-2.el8.x86\_64  
262 libdatrie-0.2.9-7.el8.x86\_64  
263 libdb-5.3.28-42.el8\_4.x86\_64

264 libdb-utils-5.3.28-42.el8\_4.x86\_64  
265 libdhash-0.5.0-39.el8.x86\_64  
266 libdnf-0.63.0-3.0.1.el8.x86\_64  
267 libdrm-2.4.103-1.el8.x86\_64  
268 libedit-3.1-23.20170329cvs.el8.x86\_64  
269 liberation-fonts-common-2.00.3-7.el8.noarch  
270 liberation-mono-fonts-2.00.3-7.el8.noarch  
271 liberation-sans-fonts-2.00.3-7.el8.noarch  
272 liberation-serif-fonts-2.00.3-7.el8.noarch  
273 libestr-0.1.10-1.el8.x86\_64  
274 libevent-1.10.0-1.el8.x86\_64  
275 libevent-2.1.8-5.el8.x86\_64  
276 libfastjson-0.99.9-1.el8.x86\_64  
277 libfdisk-2.32.1-28.el8.x86\_64  
278 libffi-3.1-22.el8.x86\_64  
279 libfontenc-1.1.3-8.el8.x86\_64  
280 libgcc-8.5.0-4.0.1.el8\_5.x86\_64  
281 libgcrypt-1.8.5-6.el8.x86\_64  
282 libgeotiff16-1.6.0-5.rhel8.x86\_64  
283 libgeotiff16-devel-1.6.0-5.rhel8.x86\_64  
284 libgfortran-8.5.0-4.0.1.el8\_5.x86\_64  
285 libglvnd-1.3.2-1.el8.x86\_64  
286 libglvnd-egl-1.3.2-1.el8.x86\_64  
287 libglvnd-glx-1.3.2-1.el8.x86\_64  
288 libgomp-8.5.0-4.0.1.el8\_5.x86\_64  
289 libgpg-error-1.31-1.el8.x86\_64  
290 libgta-1.2.1-1.el8.x86\_64  
291 libgudev-232-4.el8.x86\_64  
292 libibverbs-35.0-1.el8.x86\_64  
293 libICE-1.0.9-15.el8.x86\_64  
294 libicu-60.3-2.el8\_1.x86\_64  
295 libidn2-2.2.0-1.el8.x86\_64  
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298 libipt-1.6.1-8.el8.x86\_64  
299 libjpeg-turbo-1.5.3-12.el8.x86\_64  
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301 libkcapi-hmacalc-1.2.0-2.0.1.el8.x86\_64

- 302 libksba-1.3.5-7.el8.x86\_64
- 303 libldb-2.2.0-2.el8.x86\_64
- 304 libmaxminddb-1.2.0-10.el8.x86\_64
- 305 libmetalink-0.1.3-7.el8.x86\_64
- 306 libmnl-1.0.4-6.el8.x86\_64
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- 308 libmodulemd-2.13.0-1.el8.x86\_64
- 309 libmount-2.32.1-28.el8.x86\_64
- 310 libmspack-0.7-0.3.alpha.el8.4.x86\_64
- 311 libnetfilter\_contrack-1.0.6-5.el8.x86\_64
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- 314 libnetfilter\_queue-1.0.4-3.el8.x86\_64
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- 316 libnfsidmap-2.3.3-41.el8\_4.3.x86\_64
- 317 libnftnl-1.1.5-4.el8.x86\_64
- 318 libnghttp2-1.41.0-1.module\_el8+9071+b2b61c14.x86\_64
- 319 libnl3-3.5.0-1.el8.x86\_64
- 320 libnsl2-1.2.0-2.20180605git4a062cf.el8.x86\_64
- 321 libnsl-2.28-164.0.1.el8.x86\_64
- 322 libpath\_utils-0.2.1-39.el8.x86\_64
- 323 libpcap-1.9.1-5.el8.x86\_64
- 324 libpciaccess-0.14-1.el8.x86\_64
- 325 libpipeline-1.5.0-2.el8.x86\_64
- 326 libpkgconf-1.4.2-1.el8.x86\_64
- 327 libpng12-1.2.57-5.el8.x86\_64
- 328 libpng15-1.5.30-7.el8.x86\_64
- 329 libpng-1.6.34-5.el8.x86\_64
- 330 libpq5-14.0-42PGDG.rhel8.x86\_64
- 331 libprelude-5.2.0-1.el8.x86\_64
- 332 libpsl-0.20.2-6.el8.x86\_64
- 333 libpwquality-1.4.4-3.el8.x86\_64
- 334 libqb-1.0.3-12.el8.x86\_64
- 335 libquadmath-8.5.0-4.0.1.el8\_5.x86\_64
- 336 libref\_array-0.1.5-39.el8.x86\_64
- 337 librepo-1.14.0-2.el8.x86\_64
- 338 libreport-fs-2.9.5-15.0.2.el8.x86\_64
- 339 libreswan-4.4-4.0.1.el8\_5.x86\_64

340 librttopo-1.1.0-1.rhel8.x86\_64  
341 libseccomp-2.5.1-1.el8.x86\_64  
342 libsecret-0.18.6-1.el8.x86\_64  
343 libselinux-2.9-5.el8.x86\_64  
344 libselinux-utils-2.9-5.el8.x86\_64  
345 libsemanage-2.9-6.el8.x86\_64  
346 libsepol-2.9-3.el8.x86\_64  
347 libsigsegv-2.11-5.el8.x86\_64  
348 libSM-1.2.3-1.el8.x86\_64  
349 libsmartcols-2.32.1-28.el8.x86\_64  
350 libsolv-0.7.19-1.el8.x86\_64  
351 libspatialite50-5.0.1-3.rhel8.x86\_64  
352 libspatialite50-devel-5.0.1-3.rhel8.x86\_64  
353 libss-1.45.6-2.el8.x86\_64  
354 libssh-0.9.4-3.el8.x86\_64  
355 libssh-config-0.9.4-3.el8.noarch  
356 libsss\_autofs-2.5.2-2.0.1.el8.x86\_64  
357 libsss\_certmap-2.5.2-2.0.1.el8.x86\_64  
358 libsss\_idmap-2.5.2-2.0.1.el8.x86\_64  
359 libsss\_nss\_idmap-2.5.2-2.0.1.el8.x86\_64  
360 libsss\_sudo-2.5.2-2.0.1.el8.x86\_64  
361 libstdc++-8.5.0-4.0.1.el8\_5.x86\_64  
362 libsysfs-2.1.0-24.el8.x86\_64  
363 libtalloc-2.3.1-2.el8.x86\_64  
364 libtasn1-4.13-3.el8.x86\_64  
365 libtdb-1.4.3-1.el8.x86\_64  
366 libtevent-0.11.0-0.el8.x86\_64  
367 libthai-0.1.27-2.el8.x86\_64  
368 libtiff-4.0.9-20.el8.x86\_64  
369 libtiff-devel-4.0.9-20.el8.x86\_64  
370 libtirpc-1.1.4-4.0.1.el8.x86\_64  
371 libtool-ltdl-2.4.6-25.el8.x86\_64  
372 libunistring-0.9.9-3.el8.x86\_64  
373 libusb-0.1.5-12.el8.x86\_64  
374 libusbx-1.0.23-4.el8.x86\_64  
375 libuser-0.62-23.el8.x86\_64  
376 libutempter-1.1.6-14.el8.x86\_64  
377 libuuid-2.32.1-28.el8.x86\_64

378 libverto-0.3.0-5.el8.x86\_64  
379 libwacom-1.6-2.1.el8\_4.x86\_64  
380 libwacom-data-1.6-2.1.el8\_4.noarch  
381 libwayland-client-1.17.0-1.el8.x86\_64  
382 libwayland-server-1.17.0-1.el8.x86\_64  
383 libwebp-1.0.0-5.el8.x86\_64  
384 libX11-1.6.8-5.el8.x86\_64  
385 libX11-common-1.6.8-5.el8.noarch  
386 libX11-xcb-1.6.8-5.el8.x86\_64  
387 libXau-1.0.9-3.el8.x86\_64  
388 libxcb-1.13.1-1.el8.x86\_64  
389 libXcomposite-0.4.4-14.el8.x86\_64  
390 libxcrypt-4.1.1-6.el8.x86\_64  
391 libXcursor-1.1.15-3.el8.x86\_64  
392 libXdamage-1.1.4-14.el8.x86\_64  
393 libXext-1.3.4-1.el8.x86\_64  
394 libXfixes-5.0.3-7.el8.x86\_64  
395 libXft-2.3.3-1.el8.x86\_64  
396 libXi-1.7.10-1.el8.x86\_64  
397 libXinerama-1.1.4-1.el8.x86\_64  
398 libxkbcommon-0.9.1-1.el8.x86\_64  
399 libxkbcommon-x11-0.9.1-1.el8.x86\_64  
400 libxml2-2.9.7-9.0.2.el8\_4.2.x86\_64  
401 libXpm-3.5.12-8.el8.x86\_64  
402 libXrandr-1.5.2-1.el8.x86\_64  
403 libXrender-0.9.10-7.el8.x86\_64  
404 libxshmfence-1.3-2.el8.x86\_64  
405 libxslt-1.1.32-6.0.1.el8.x86\_64  
406 libXtst-1.2.3-7.el8.x86\_64  
407 libXxf86vm-1.1.4-9.el8.x86\_64  
408 libyaml-0.1.7-5.el8.x86\_64  
409 libzstd-1.4.4-1.0.1.el8.x86\_64  
410 linux-firmware-20201218-102.git05789708.el8.noarch  
411 lksctp-tools-1.0.18-3.el8.x86\_64  
412 lmdb-libs-0.9.24-1.el8.x86\_64  
413 lm\_sensors-libs-3.4.0-22.20180522git70f7e08.el8.x86\_64  
414 logrotate-3.14.0-4.el8.x86\_64  
415 lohith-devanagari-fonts-2.95.4-3.el8.noarch

- 416 lshw-B.02.19.2-6.el8.x86\_64
- 417 lsof-4.93.2-1.el8.x86\_64
- 418 lsscsi-0.32-3.el8.x86\_64
- 419 lua-5.3.4-12.el8.x86\_64
- 420 lua-libs-5.3.4-12.el8.x86\_64
- 421 lwl-apache-jakarta-tomcat-9.0.52-77891.noarch
- 422 lwl-base-appliance-8.0-202202222110.stable.72303b4.noarch
- 423 lwl-base-appliance-oracle-8.0-202202222110.stable.72303b4.noarch
- 424 lwl-base-appliance-vmware-8.0-master.916427a.noarch
- 425 lwl-birt-extras-1.0.0-66191.noarch
- 426 lwl-birt-reports-1.0.1-78840.noarch
- 427 lwl-birt-runtime-4.4.2-76957.noarch
- 428 lwl-collector-1.0.0-78170.noarch
- 429 lwl-collector-backend-1.0.0-78840.noarch
- 430 lwl-collector-backend-deps-1.0.0-78840.noarch
- 431 lwl-collector-common-1.0.0-78170.noarch
- 432 lwl-common-identity-osgi-modules-1.0.1-1.noarch
- 433 lwl-common-osgi-modules-1.0.9-1.noarch
- 434 lwl-config-utils-1.0.0-78843.noarch
- 435 lwl-console-2.0.0-78564.noarch
- 436 lwl-db-setup-1.0.0-78342.noarch
- 437 lwl-diag-common-1.0.0-74980.noarch
- 438 lwl-httpd-config-1.0.2-78742.noarch
- 439 lwl-hub-1.0.0-68404.noarch
- 440 lwl-hub-common-1.0.0-78538.noarch
- 441 lwl-hub-config-1.0.2-78849.x86\_64
- 442 lwl-hub-config-systemd-1.0.2-78849.x86\_64
- 443 lwl-hub-munin-1.0.1-77568.noarch
- 444 lwl-hub-munin-postgresql-1.0.1-77568.noarch
- 445 lwl-java-setup-1.6.0-78342.noarch
- 446 lwl-keyring-1.0.8-78676.noarch
- 447 lwl-mentok-6.6.0-78812.x86\_64
- 448 lwl-module-active-users-tracking-0.32-1.noarch
- 449 lwl-module-apache-common-beanutils-1.9.4-3.noarch
- 450 lwl-module-apache-common-codec-1.15-1.noarch
- 451 lwl-module-apache-common-collections-4.4-2.noarch
- 452 lwl-module-apache-common-csv-1.4-1.noarch
- 453 lwl-module-apache-common-http-client-4.5.13-1.noarch

454 lwl-module-apache-common-math-3.6.1-2.noarch  
455 lwl-module-apache-commons-lang3-3.11-1.noarch  
456 lwl-module-atomikos-5.0.6-1.noarch  
457 lwl-module-bouncycastle-1.69-1.noarch  
458 lwl-module-common-dao-impl-jdbc-0.84-1.noarch  
459 lwl-module-common-rest-api-0.63-1.noarch  
460 lwl-module-database-config-0.152-1.noarch  
461 lwl-module-database-copy-postgresql-0.15-1.noarch  
462 lwl-module-database-datasourceprovider-atomikos-0.12-1.noarch  
463 lwl-module-database-datasourceprovider-postgresql-0.13-1.noarch  
464 lwl-module-database-dbinfoprovider-properties-0.10-1.noarch  
465 lwl-module-database-dbinfoprovider-simple-0.6-1.noarch  
466 lwl-module-database-monitor-postgresql-0.4-1.noarch  
467 lwl-module-database-partition-postgresql-0.25-1.noarch  
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484 lwl-module-hardware-profile-converter-nutanix-0.3-1.noarch  
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491 lwl-module-java-mail-1.6.2-2.noarch



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493 lwl-module-json-provider-gson-0.11-1.noarch  
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495 lwl-module-ldap-dao-impl-spring-0.4-1.noarch  
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497 lwl-module-license-dao-impl-jdbc-0.36-1.noarch  
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503 lwl-module-logrecord-dao-impl-jdbc-0.20-1.noarch  
504 lwl-module-logrecord-model-0.6-1.noarch  
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516 lwl-module-password-util-0.14-1.noarch  
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528 lwl-module-stratusphere-api-dashboard-0.9-1.noarch  
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538 lwl-module-stratusphere-api-software-cid-0.28-1.noarch  
539 lwl-module-stratusphere-api-update-0.38-1.noarch  
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543 lwl-module-stratusphere-inspection-data-rollup-0.121-5.noarch  
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548 lwl-module-tnt-identity-common-java-1.6-1.noarch  
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695 perl-Convert-UU-0.5201-27.el8.noarch  
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794 perl-Package-Stash-0.37-9.el8.noarch  
795 perl-Package-Stash-XS-0.28-17.el8.x86\_64



796 perl-PadWalker-2.3-2.el8.x86\_64  
797 perl-Params-Classify-0.015-2.el8.x86\_64  
798 perl-Params-Util-1.07-22.el8.x86\_64  
799 perl-Params-Validate-1.29-5.el8.x86\_64  
800 perl-Params-ValidationCompiler-0.27-1.el8.noarch  
801 perl-parent-0.237-1.el8.noarch  
802 perl-PathTools-3.74-1.el8.x86\_64  
803 perl-Pod-Escapes-1.07-395.el8.noarch  
804 perl-podlators-4.11-1.el8.noarch  
805 perl-Pod-Perldoc-3.28-396.el8.noarch  
806 perl-Pod-Simple-3.35-395.el8.noarch  
807 perl-Pod-Usage-1.69-395.el8.noarch  
808 perl-Ref-Util-0.203-4.el8.noarch  
809 perl-Ref-Util-XS-0.117-2.el8.x86\_64  
810 perl-Role-Tiny-2.000006-2.el8.noarch  
811 perl-Scalar-List-Utills-1.49-2.el8.x86\_64  
812 perl-SelfLoader-1.23-420.el8.noarch  
813 perl-Socket-2.027-3.el8.x86\_64  
814 perl-Socket6-0.28-6.el8.x86\_64  
815 perl-Specio-0.42-2.el8.noarch  
816 perl-srpm-macros-1-25.el8.noarch  
817 perl-Storable-3.11-3.el8.x86\_64  
818 perl-Sub-Exporter-0.987-15.el8.noarch  
819 perl-Sub-Exporter-Progressive-0.001013-5.el8.noarch  
820 perl-Sub-Identify-0.14-6.el8.x86\_64  
821 perl-Sub-Install-0.928-14.el8.noarch  
822 perl-Sys-Syslog-0.35-397.el8.x86\_64  
823 perl-Taint-Runtime-0.03-32.el8.x86\_64  
824 perl-Term-ANSIColor-4.06-396.el8.noarch  
825 perl-Term-Cap-1.17-395.el8.noarch  
826 perl-Text-Balanced-2.03-395.el8.noarch  
827 perl-Text-ParseWords-3.30-395.el8.noarch  
828 perl-Text-Soundex-3.05-8.el8.x86\_64  
829 perl-Text-Tabs+Wrap-2013.0523-395.el8.noarch  
830 perl-Text-Unidecode-1.30-5.el8.noarch  
831 perl-threads-2.21-2.el8.x86\_64  
832 perl-threads-shared-1.58-2.el8.x86\_64  
833 perltidy-20180220-1.el8.noarch

834 perl-TimeDate-2.30-15.module+el8.3.0+7692+542c56f9.noarch  
835 perl-Time-HiRes-1.9758-2.el8.x86\_64  
836 perl-Time-Local-1.280-1.el8.noarch  
837 perl-Try-Tiny-0.30-7.module+el8.3.0+7692+542c56f9.noarch  
838 perl-Unicode-Normalize-1.25-396.el8.x86\_64  
839 perl-URI-1.73-3.el8.noarch  
840 perl-Variable-Magic-0.62-3.el8.x86\_64  
841 perl-version-0.99.24-1.el8.x86\_64  
842 perl-WWW-RobotRules-6.02-18.module+el8.3.0+7692+542c56f9.noarch  
843 perl-XML-LibXML-2.0132-2.el8.x86\_64  
844 perl-XML-Namespacesupport-1.12-4.el8.noarch  
845 perl-XML-Parser-2.44-11.0.1.el8.x86\_64  
846 perl-XML-SAX-1.00-1.el8.noarch  
847 perl-XML-SAX-Base-1.09-4.el8.noarch  
848 perl-XML-Simple-2.25-1.el8.noarch  
849 pg\_activity-2.2.1-1.rhel8.noarch  
850 pgaudit14\_12-1.4.1-1.rhel8.x86\_64  
851 pgdg-redhat-repo-42.0-23.noarch  
852 pg\_jobmon\_12-1.4.1-1.rhel8.noarch  
853 pg\_partman\_12-4.6.0-1.rhel8.x86\_64  
854 pg\_top12-3.7.0-5.rhel8.2.x86\_64  
855 pgtune-0.9.3-12.da57e00.el7.noarch  
856 pigz-2.4-4.el8.x86\_64  
857 pinentry-1.1.0-2.el8.x86\_64  
858 pixman-0.38.4-1.el8.x86\_64  
859 pkgconf-1.4.2-1.el8.x86\_64  
860 pkgconf-m4-1.4.2-1.el8.noarch  
861 pkgconf-pkg-config-1.4.2-1.el8.x86\_64  
862 platform-python-3.6.8-41.0.1.el8.x86\_64  
863 platform-python-pip-9.0.3-20.el8.noarch  
864 platform-python-setuptools-39.2.0-6.el8.noarch  
865 policycoreutils-2.9-14.el8.x86\_64  
866 policycoreutils-python-utils-2.9-14.el8.noarch  
867 polkit-0.115-13.0.1.el8\_5.1.x86\_64  
868 polkit-libs-0.115-13.0.1.el8\_5.1.x86\_64  
869 polkit-pkla-compat-0.1-12.el8.x86\_64  
870 poppler-20.11.0-3.el8.x86\_64  
871 poppler-data-0.4.9-1.el8.noarch

872 popt-1.18-1.el8.x86\_64  
873 postgis31\_12-3.1.4-1.rhel8.x86\_64  
874 postgresql12-12.9-1PGDG.rhel8.x86\_64  
875 postgresql12-contrib-12.9-1PGDG.rhel8.x86\_64  
876 postgresql12-libs-12.9-1PGDG.rhel8.x86\_64  
877 postgresql12-plperl-12.9-1PGDG.rhel8.x86\_64  
878 postgresql12-server-12.9-1PGDG.rhel8.x86\_64  
879 postgresql-jdbc-42.2.3-3.el8\_2.noarch  
880 prefixdevname-0.1.0-6.el8.x86\_64  
881 procps-ng-3.3.15-6.0.1.el8.x86\_64  
882 proj80-8.0.1-1.rhel8.x86\_64  
883 proj81-8.1.1-1.rhel8.x86\_64  
884 protobuf-3.5.0-13.el8.x86\_64  
885 protobuf-c-1.3.0-6.el8.x86\_64  
886 psmisc-23.1-5.el8.x86\_64  
887 publicsuffix-list-dafsa-20180723-1.el8.noarch  
888 python2-2.7.18-7.0.1.module+el8.5.0+20361+8a9d3d27.x86\_64  
889 python2-libs-2.7.18-7.0.1.module+el8.5.0+20361+8a9d3d27.x86\_64  
890 python2-pip-9.0.3-18.module\_el8.5.0+743+cd2f5d28.noarch  
891 python2-pip-wheel-9.0.3-18.module\_el8.5.0+743+cd2f5d28.noarch  
892 python2-setuptools-39.0.1-13.module\_el8.5.0+743+cd2f5d28.noarch  
893 python2-setuptools-wheel-39.0.1-13.module\_el8.5.0+743+cd2f5d28.noarch  
894 python36-3.6.8-38.module+el8.5.0+20329+5c5719bc.x86\_64  
895 python3-attrs-19.3.0-5.el8.noarch  
896 python3-audit-3.0-0.17.20191104git1c2f876.el8.x86\_64  
897 python3-blessed-1.18.1-1.el8.noarch  
898 python3-configobj-5.0.6-11.el8.noarch  
899 python3-dateutil-2.6.1-6.el8.noarch  
900 python3-dbus-1.2.4-15.el8.x86\_64  
901 python3-decorator-4.2.1-2.el8.noarch  
902 python3-dnf-4.7.0-4.0.1.el8.noarch  
903 python3-dnf-plugins-core-4.0.21-4.0.1.el8\_5.noarch  
904 python3-gobject-base-3.28.3-2.el8.x86\_64  
905 python3-gpg-1.13.1-9.el8.x86\_64  
906 python3-hawkey-0.63.0-3.0.1.el8.x86\_64  
907 python3-humanize-0.5.1-13.el8.noarch  
908 python3-libcomps-0.1.16-2.el8.x86\_64  
909 python3-libdnf-0.63.0-3.0.1.el8.x86\_64

910 python3-libs-3.6.8-41.0.1.el8.x86\_64  
911 python3-libs-2.9-5.el8.x86\_64  
912 python3-libsemanage-2.9-6.el8.x86\_64  
913 python3-linux-procfs-0.6.3-1.el8.noarch  
914 python3-perf-4.18.0-348.12.2.el8\_5.x86\_64  
915 python3-pip-9.0.3-20.el8.noarch  
916 python3-pip-wheel-9.0.3-20.el8.noarch  
917 python3-policycoreutils-2.9-14.el8.noarch  
918 python3-psutil-5.7.3-1.el8.x86\_64  
919 python3-psycopg2-2.8.6-1.rhel8.x86\_64  
920 python3-pyudev-0.21.0-7.el8.noarch  
921 python3-rpm-4.14.3-19.el8\_5.2.x86\_64  
922 python3-rpm-macros-3-41.el8.noarch  
923 python3-schedutils-0.6-6.el8.x86\_64  
924 python3-setools-4.3.0-2.el8.x86\_64  
925 python3-setuptools-39.2.0-6.el8.noarch  
926 python3-setuptools-wheel-39.2.0-6.el8.noarch  
927 python3-six-1.11.0-8.el8.noarch  
928 python3-syspurpose-1.28.13-3.el8\_4.x86\_64  
929 python3-unbound-1.7.3-17.el8.x86\_64  
930 python3-wcwidth-0.2.5-3.el8.noarch  
931 python-rpm-macros-3-41.el8.noarch  
932 python-srpm-macros-3-41.el8.noarch  
933 qt5-qtbase-5.15.2-3.el8.x86\_64  
934 qt5-qtbase-common-5.15.2-3.el8.noarch  
935 qt5-qtbase-gui-5.15.2-3.el8.x86\_64  
936 qt5-qtsvg-5.15.2-3.el8.x86\_64  
937 qt5-srpm-macros-5.15.2-1.el8.noarch  
938 rdma-core-35.0-1.el8.x86\_64  
939 readline-7.0-10.el8.x86\_64  
940 redhat-release-8.5-0.8.0.2.el8.x86\_64  
941 redhat-rpm-config-125-1.0.1.el8.noarch  
942 remi-release-8.5-2.el8.remi.noarch  
943 rng-tools-6.13-1.git.d207e0b6.el8.x86\_64  
944 rootfiles-8.1-22.el8.noarch  
945 rpm-4.14.3-19.el8\_5.2.x86\_64  
946 rpm-build-4.14.3-19.el8\_5.2.x86\_64  
947 rpm-build-libs-4.14.3-19.el8\_5.2.x86\_64

948 rpmdevtools-8.10-8.0.1.el8.noarch  
949 rpm-libs-4.14.3-19.el8\_5.2.x86\_64  
950 rpm-plugin-fapolicyd-4.14.3-19.el8\_5.2.x86\_64  
951 rpm-plugin-selinux-4.14.3-19.el8\_5.2.x86\_64  
952 rpm-plugin-systemd-inhibit-4.14.3-19.el8\_5.2.x86\_64  
953 rrdtool-1.7.0-16.el8.x86\_64  
954 rrdtool-perl-1.7.0-16.el8.x86\_64  
955 rsyslog-8.2102.0-5.el8.x86\_64  
956 rsyslog-gnutls-8.2102.0-5.el8.x86\_64  
957 rust-srpm-macros-5-2.el8.noarch  
958 samyak-devanagari-fonts-1.2.2-19.el8.noarch  
959 samyak-fonts-common-1.2.2-19.el8.noarch  
960 scap-security-guide-0.1.57-3.0.1.el8\_4.noarch  
961 sed-4.5-2.el8.x86\_64  
962 selinux-policy-3.14.3-80.0.1.el8.noarch  
963 selinux-policy-targeted-3.14.3-80.0.1.el8.noarch  
964 setup-2.12.2-6.el8.noarch  
965 SFCGAL-1.3.7-2.rhel8.x86\_64  
966 SFCGAL-libs-1.3.7-2.rhel8.x86\_64  
967 sg3\_utils-1.44-5.el8.x86\_64  
968 sg3\_utils-libs-1.44-5.el8.x86\_64  
969 shadow-utils-4.6-14.el8.x86\_64  
970 shapelib-1.5.0-1.el8.x86\_64  
971 shared-mime-info-1.9-3.el8.x86\_64  
972 sharutils-4.15.2-11.el8.x86\_64  
973 snappy-1.1.8-3.el8.x86\_64  
974 sqlite-3.26.0-15.el8.x86\_64  
975 sqlite-libs-3.26.0-15.el8.x86\_64  
976 squashfs-tools-4.3-20.el8.x86\_64  
977 sscg-2.3.3-14.el8.x86\_64  
978 sssd-client-2.5.2-2.0.1.el8.x86\_64  
979 sssd-common-2.5.2-2.0.1.el8.x86\_64  
980 sssd-kcm-2.5.2-2.0.1.el8.x86\_64  
981 sssd-nfs-idmap-2.5.2-2.0.1.el8.x86\_64  
982 sudo-1.8.29-7.el8\_4.1.x86\_64  
983 SuperLU-5.2.0-7.el8.x86\_64  
984 sysstat-11.7.3-6.0.1.el8.x86\_64  
985 systemd-239-51.0.1.el8.x86\_64

986 systemd-libs-239-51.0.1.el8.x86\_64  
987 systemd-pam-239-51.0.1.el8.x86\_64  
988 systemd-udev-239-51.0.1.el8.x86\_64  
989 tar-1.30-5.el8.x86\_64  
990 tcl-8.6.8-2.el8.x86\_64  
991 timedatex-0.5-3.el8.x86\_64  
992 tmpwatch-2.11-14.el8.x86\_64  
993 tmux-2.7-1.el8.x86\_64  
994 tnt-10Zig-drivers-6.6.0-3.noarch  
995 tnt-base-4.0.1-62018.noarch  
996 tnt-brandit-1.3.0-78340.x86\_64  
997 tnt-centos5-drivers-6.6.0-3.noarch  
998 tnt-centos6-drivers-6.6.0-3.noarch  
999 tnt-common-java-3.0.25-1.noarch  
1000 tnt-common-java-deps-3.0.25-1.noarch  
1001 tnt-db-2.9.2-78167.noarch  
1002 tnt-db-imaaner-3.3.4-78167.noarch  
1003 tnt-db-location-1.0.0-78596.noarch  
1004 tnt-db-upgrade-1.5.0-78683.noarch  
1005 tnt-decode-1.0.0-77570.x86\_64  
1006 tnt-identity-common-backend-2.0.5-78592.noarch  
1007 tnt-identity-common-backend-deps-2.0.2-78657.noarch  
1008 tnt-identity-common-backend-priv-2.0.2-78731.noarch  
1009 tnt-identity-common-java-3.3.6-78531.noarch  
1010 tnt-identity-common-java-deps-3.3.1-78415.noarch  
1011 tnt-identity-common-web-1.8.2-77132.noarch  
1012 tnt-identity-igateway-backend-1.5.1-78708.noarch  
1013 tnt-identity-imaaner-backend-2.3.3-78840.noarch  
1014 tnt-identity-imaaner-backend-deps-2.3.3-78407.noarch  
1015 tnt-igateway-health-1.2.0-78557.noarch  
1016 tnt-igel-drivers-6.6.0-3.noarch  
1017 tnt-iptables-2.8.1-76234.x86\_64  
1018 tnt-kernel-modules-1.15.0-78733\_4.18.0\_348.12.2.el8\_5.x86\_64  
1019 tnt-LeTOS-drivers-6.6.0-3.noarch  
1020 tnt-libperlnt-1.5.0-65269.noarch  
1021 tnt-netaudit-1.8.0-77570.x86\_64  
1022 tnt-nps32-drivers-6.6.0-3.noarch  
1023 tnt-osx-drivers-6.6.0-3.noarch

1024 tnt-policy-2.7.1-77642.noarch  
1025 tnt-policy-common-2.7.1-77642.noarch  
1026 tnt-postgresql-1.0.1-75096.noarch  
1027 tnt-release-6.6.0-1\_202202222056.noarch  
1028 tnt-rhel4-drivers-6.6.0-3.noarch  
1029 tnt-setup-1.8.2-78789.noarch  
1030 tnt-setup-manager-1.6.3-65795.noarch  
1031 tnt-setup-vmware-1.8.2-78789.noarch  
1032 tnt-stratodesk-drivers-6.6.0-3.noarch  
1033 tnt-tools-1.5.5-78342.x86\_64  
1034 tnt-ubuntu10-drivers-6.6.0-3.noarch  
1035 tnt-windows-pdb-6.6.0-3.noarch  
1036 tpm2-tss-2.3.2-4.el8.x86\_64  
1037 trousers-0.3.15-1.el8.x86\_64  
1038 trousers-lib-0.3.15-1.el8.x86\_64  
1039 ttmkfdir-3.0.9-54.el8.x86\_64  
1040 tuned-2.16.0-1.0.1.el8.noarch  
1041 tzdata-2021e-1.el8.noarch  
1042 tzdata-java-2021e-1.el8.noarch  
1043 unbound-libs-1.7.3-17.el8.x86\_64  
1044 unixODBC-2.3.7-1.el8.x86\_64  
1045 unzip-6.0-45.el8\_4.x86\_64  
1046 usbguard-1.0.0-2.el8.x86\_64  
1047 usbguard-selinux-1.0.0-2.el8.noarch  
1048 usermode-1.113-2.el8.x86\_64  
1049 util-linux-2.32.1-28.el8.x86\_64  
1050 util-linux-user-2.32.1-28.el8.x86\_64  
1051 vim-minimal-8.0.1763-16.0.1.el8\_5.4.x86\_64  
1052 virt-what-1.18-12.el8.x86\_64  
1053 vlgothic-fonts-20141206-15.el8.1.noarch  
1054 vlgothic-p-fonts-20141206-15.el8.1.noarch  
1055 vs-helper-6.6.0-3.x86\_64  
1056 vs-pushuser-6.6.0-3.x86\_64  
1057 wget-1.19.5-10.0.1.el8.x86\_64  
1058 which-2.21-16.el8.x86\_64  
1059 wqy-zenhei-fonts-0.9.46-11.el7.noarch  
1060 xcb-util-0.4.0-10.el8.x86\_64  
1061 xcb-util-image-0.4.0-9.el8.x86\_64

1062 xcb-util-keysyms-0.4.0-7.el8.x86\_64  
1063 xcb-util-renderutil-0.3.9-10.el8.x86\_64  
1064 xcb-util-wm-0.4.1-12.el8.x86\_64  
1065 xdelta-3.1.0-4.el8.x86\_64  
1066 xerces-c-3.2.2-3.el8.x86\_64  
1067 xfsprogs-5.4.0-1.0.1.el8.x86\_64  
1068 xkeyboard-config-2.28-1.el8.noarch  
1069 xml-common-0.6.3-50.el8.noarch  
1070 xmlsec1-1.2.25-4.el8.x86\_64  
1071 xmlsec1-openssl-1.2.25-4.el8.x86\_64  
1072 xorg-x11-fonts-Type1-7.5-19.el8.noarch  
1073 xorg-x11-font-utils-7.5-41.el8.x86\_64  
1074 xz-5.2.4-3.el8.x86\_64  
1075 xz-libs-5.2.4-3.el8.x86\_64  
1076 yajl-2.1.0-10.el8.x86\_64  
1077 yum-4.7.0-4.0.1.el8.noarch  
1078 yum-utils-4.0.21-4.0.1.el8\_5.noarch  
1079 zip-3.0-23.el8.x86\_64  
1080 zlib-1.2.11-17.el8.x86\_64  
1081 zstd-1.4.4-1.0.1.el8.x86\_64



## Stratusphere Database Appliance Installed Packages

- 1 acl-2.2.53-1.el8.x86\_64
- 2 aide-0.16-14.el8\_5.1.x86\_64
- 3 apr-1.6.3-12.el8.x86\_64
- 4 apr-util-1.6.1-6.el8.x86\_64
- 5 apr-util-bdb-1.6.1-6.el8.x86\_64
- 6 apr-util-openssl-1.6.1-6.el8.x86\_64
- 7 armadillo-9.700.2-1.el8.x86\_64
- 8 arpack-3.7.0-1.el8.x86\_64
- 9 atlas-3.10.3-8.el8.x86\_64
- 10 audispd-plugins-3.0-0.17.20191104git1c2f876.el8.x86\_64
- 11 audit-3.0-0.17.20191104git1c2f876.el8.x86\_64
- 12 audit-libs-3.0-0.17.20191104git1c2f876.el8.x86\_64
- 13 authselect-1.2.2-3.el8.x86\_64
- 14 authselect-compat-1.2.2-3.el8.x86\_64
- 15 authselect-libs-1.2.2-3.el8.x86\_64
- 16 avahi-libs-0.7-20.el8.x86\_64
- 17 basesystem-11-5.el8.noarch
- 18 bash-4.4.20-2.el8.x86\_64
- 19 bc-1.07.1-5.el8.x86\_64
- 20 bind-export-libs-9.11.26-6.el8.x86\_64
- 21 binutils-2.30-108.0.2.el8\_5.1.x86\_64
- 22 blas-3.8.0-8.el8.x86\_64
- 23 boost-atomic-1.66.0-10.el8.x86\_64
- 24 boost-chrono-1.66.0-10.el8.x86\_64
- 25 boost-date-time-1.66.0-10.el8.x86\_64
- 26 boost-serialization-1.66.0-10.el8.x86\_64
- 27 boost-system-1.66.0-10.el8.x86\_64
- 28 boost-thread-1.66.0-10.el8.x86\_64
- 29 brotli-1.0.6-3.el8.x86\_64
- 30 bzip2-1.0.6-26.el8.x86\_64
- 31 bzip2-libs-1.0.6-26.el8.x86\_64
- 32 ca-certificates-2021.2.50-80.0.el8\_4.noarch
- 33 cairo-1.15.12-3.el8.x86\_64
- 34 c-ares-1.13.0-5.el8.x86\_64
- 35 centos-gpg-keys-8-2.el8.noarch

- 36 cfitsio-3.47-1.el8.x86\_64
- 37 CGAL-4.14-1.rhel8.x86\_64
- 38 checkpolicy-2.9-1.el8.x86\_64
- 39 chkconfig-1.19.1-1.0.1.el8.x86\_64
- 40 chkrootkit-0.50-4el7.x86\_64
- 41 chrony-4.1-1.0.1.el8.x86\_64
- 42 clamav-0.103.1-3.el8.x86\_64
- 43 clamav-data-0.103.1-3.el8.noarch
- 44 clamav-filesystem-0.103.1-3.el8.noarch
- 45 clamav-lib-0.103.1-3.el8.x86\_64
- 46 clamav-update-0.103.1-3.el8.x86\_64
- 47 cntlm-0.92.3-1.x86\_64
- 48 contrack-tools-1.4.4-10.el8.x86\_64
- 49 coreutils-8.30-12.0.1.el8.x86\_64
- 50 coreutils-common-8.30-12.0.1.el8.x86\_64
- 51 cpio-2.12-10.el8.x86\_64
- 52 cracklib-2.9.6-15.el8.x86\_64
- 53 cracklib-dicts-2.9.6-15.el8.x86\_64
- 54 cronie-1.5.2-4.el8.x86\_64
- 55 cronie-anacron-1.5.2-4.el8.x86\_64
- 56 crontabs-1.11-17.20190603git.el8.noarch
- 57 crypto-policies-20210617-1.gitc776d3e.el8.noarch
- 58 crypto-policies-scripts-20210617-1.gitc776d3e.el8.noarch
- 59 cryptsetup-2.3.3-4.el8\_5.1.x86\_64
- 60 cryptsetup-libs-2.3.3-4.el8\_5.1.x86\_64
- 61 cups-libs-2.2.6-40.el8.x86\_64
- 62 curl-7.61.1-22.el8.x86\_64
- 63 cyrus-sasl-lib-2.1.27-5.el8.x86\_64
- 64 dbus-1.12.8-14.0.1.el8.x86\_64
- 65 dbus-common-1.12.8-14.0.1.el8.noarch
- 66 dbus-daemon-1.12.8-14.0.1.el8.x86\_64
- 67 dbus-glib-0.110-2.el8.x86\_64
- 68 dbus-libs-1.12.8-14.0.1.el8.x86\_64
- 69 dbus-tools-1.12.8-14.0.1.el8.x86\_64
- 70 dejavu-fonts-common-2.35-7.el8.noarch
- 71 dejavu-sans-mono-fonts-2.35-7.el8.noarch
- 72 device-mapper-1.02.177-10.el8.x86\_64
- 73 device-mapper-libs-1.02.177-10.el8.x86\_64

74 dhcp-client-4.3.6-45.el8.x86\_64  
75 dhcp-common-4.3.6-45.el8.noarch  
76 dhcp-libs-4.3.6-45.el8.x86\_64  
77 diffutils-3.6-6.el8.x86\_64  
78 dmidecode-3.2-10.0.1.el8.x86\_64  
79 dnf-4.7.0-4.0.1.el8.noarch  
80 dnf-automatic-4.7.0-4.0.1.el8.noarch  
81 dnf-data-4.7.0-4.0.1.el8.noarch  
82 dnf-plugins-core-4.0.21-4.0.1.el8\_5.noarch  
83 dracut-049-191.git20210920.0.1.el8.x86\_64  
84 dracut-config-rescue-049-191.git20210920.0.1.el8.x86\_64  
85 dracut-network-049-191.git20210920.0.1.el8.x86\_64  
86 dracut-squash-049-191.git20210920.0.1.el8.x86\_64  
87 dwz-0.12-10.el8.x86\_64  
88 e2fsprogs-1.45.6-2.el8.x86\_64  
89 e2fsprogs-libs-1.45.6-2.el8.x86\_64  
90 ed-1.14.2-4.el8.x86\_64  
91 efi-srpm-macros-3-3.0.1.el8.noarch  
92 elfutils-0.185-1.el8.x86\_64  
93 elfutils-debuginfod-client-0.185-1.el8.x86\_64  
94 elfutils-default-yama-scope-0.185-1.el8.noarch  
95 elfutils-libelf-0.185-1.el8.x86\_64  
96 elfutils-libs-0.185-1.el8.x86\_64  
97 elrepo-release-8.2-1.el8.elrepo.noarch  
98 emacsfilesystem-26.1-7.el8.noarch  
99 epel-release-8-13.el8.noarch  
100 ethtool-5.8-7.el8.x86\_64  
101 expat-2.2.5-4.el8.x86\_64  
102 expect-5.45.4-5.el8.x86\_64  
103 fapolicyd-1.0.2-6.0.1.el8.x86\_64  
104 fapolicyd-selinux-1.0.2-6.0.1.el8.noarch  
105 file-5.33-20.el8.x86\_64  
106 file-libs-5.33-20.el8.x86\_64  
107 filesystem-3.8-3.el8.x86\_64  
108 findutils-4.6.0-20.el8.x86\_64  
109 fipscheck-1.5.0-4.el8.x86\_64  
110 fipscheck-lib-1.5.0-4.el8.x86\_64  
111 firewalld-filesystem-0.9.3-7.0.2.el8.noarch

112 fontconfig-2.13.1-3.el8.x86\_64  
113 fontpackages-filesystem-1.44-22.el8.noarch  
114 freetype-2.9.1-4.el8\_3.1.x86\_64  
115 freexl-1.0.6-1.el8.x86\_64  
116 fribidi-1.0.4-8.el8.x86\_64  
117 fuse-2.9.7-12.0.3.el8.x86\_64  
118 fuse-common-3.2.1-12.0.3.el8.x86\_64  
119 fuse-libs-2.9.7-12.0.3.el8.x86\_64  
120 gawk-4.2.1-2.el8.x86\_64  
121 gc-7.6.4-3.el8.x86\_64  
122 GConf2-3.2.6-22.el8.x86\_64  
123 gdal33-libs-3.3.3-1.rhel8.x86\_64  
124 gdb-headless-8.2-15.0.1.el8.x86\_64  
125 gdbm-1.18-1.el8.x86\_64  
126 gdbm-libs-1.18-1.el8.x86\_64  
127 gdisk-1.0.3-6.el8.x86\_64  
128 geolite2-city-20180605-1.el8.noarch  
129 geolite2-country-20180605-1.el8.noarch  
130 geos39-3.9.2-1.rhel8.x86\_64  
131 gettext-0.19.8.1-17.el8.x86\_64  
132 gettext-libs-0.19.8.1-17.el8.x86\_64  
133 ghc-srpm-macros-1.4.2-7.el8.noarch  
134 giflib-5.1.4-3.el8.x86\_64  
135 glib2-2.56.4-156.el8.x86\_64  
136 glibc-2.28-164.0.1.el8.x86\_64  
137 glibc-common-2.28-164.0.1.el8.x86\_64  
138 glibc-langpack-en-2.28-164.0.1.el8.x86\_64  
139 glx-utils-8.4.0-5.20181118git1830dcb.el8.x86\_64  
140 gmp-6.1.2-10.el8.x86\_64  
141 gnupg2-2.2.20-2.el8.x86\_64  
142 gnupg2-smime-2.2.20-2.el8.x86\_64  
143 gnutls-3.6.16-4.el8.x86\_64  
144 gobject-introspection-1.56.1-1.el8.x86\_64  
145 go-srpm-macros-2-17.el8.noarch  
146 gpgme-1.13.1-9.el8.x86\_64  
147 gpg-pubkey-00f97f56-467e318a  
148 gpg-pubkey-0364b949-58bd2928  
149 gpg-pubkey-2f86d6a1-5cf7cefb

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158 gpg-pubkey-baadae52-49beffa4  
159 gpg-pubkey-bbae6f1b-5c790651  
160 gpsbabel-1.6.0-3.el8.x86\_64  
161 graphite2-1.3.10-10.el8.x86\_64  
162 grep-3.1-6.el8.x86\_64  
163 groff-base-1.22.3-18.el8.x86\_64  
164 grub2-common-2.02-106.0.1.el8.noarch  
165 grub2-pc-2.02-106.0.1.el8.x86\_64  
166 grub2-pc-modules-2.02-106.0.1.el8.noarch  
167 grub2-tools-2.02-106.0.1.el8.x86\_64  
168 grub2-tools-efi-2.02-106.0.1.el8.x86\_64  
169 grub2-tools-extra-2.02-106.0.1.el8.x86\_64  
170 grub2-tools-minimal-2.02-106.0.1.el8.x86\_64  
171 grubby-8.40-42.0.1.el8.x86\_64  
172 guile-2.0.14-7.el8.x86\_64  
173 gzip-1.9-12.el8.x86\_64  
174 hardlink-1.3-6.el8.x86\_64  
175 harfbuzz-1.7.5-3.el8.x86\_64  
176 hdf-4.2.14-5.el8.x86\_64  
177 hdf5-1.10.5-4.el8.x86\_64  
178 hdparm-9.54-3.el8.x86\_64  
179 hostname-3.20-6.el8.x86\_64  
180 httpd-2.4.37-43.0.2.module+el8.5.0+20470+f38d0c8f.x86\_64  
181 httpd-filesystem-2.4.37-43.0.2.module+el8.5.0+20470+f38d0c8f.noarch  
182 httpd-tools-2.4.37-43.0.2.module+el8.5.0+20470+f38d0c8f.x86\_64  
183 hwdata-0.314-8.8.el8.noarch  
184 ima-evm-utils-1.3.2-12.el8.x86\_64  
185 info-6.5-6.el8.x86\_64  
186 initscripts-10.00.15-1.el8.x86\_64  
187 ipcalc-0.2.4-4.el8.x86\_64

188 iproute-5.9.0-4.el8.x86\_64  
189 iprutils-2.4.19-1.el8.x86\_64  
190 iptables-1.8.4-20.0.1.el8.x86\_64  
191 iptables-libs-1.8.4-20.0.1.el8.x86\_64  
192 iptables-services-1.8.4-20.0.1.el8.x86\_64  
193 iputils-20180629-7.el8.x86\_64  
194 irqbalance-1.4.0-6.el8.x86\_64  
195 jansson-2.11-3.el8.x86\_64  
196 jasper-libs-2.0.14-5.el8.x86\_64  
197 jbigkit-libs-2.1-14.el8.x86\_64  
198 jq-1.5-12.el8.x86\_64  
199 json-c-0.13.1-2.el8.x86\_64  
200 kbd-2.0.4-10.el8.x86\_64  
201 kbd-legacy-2.0.4-10.el8.noarch  
202 kbd-misc-2.0.4-10.el8.noarch  
203 kernel-4.18.0-348.12.2.el8\_5.x86\_64  
204 kernel-core-4.18.0-348.12.2.el8\_5.x86\_64  
205 kernel-modules-4.18.0-348.12.2.el8\_5.x86\_64  
206 kernel-tools-4.18.0-348.12.2.el8\_5.x86\_64  
207 kernel-tools-libs-4.18.0-348.12.2.el8\_5.x86\_64  
208 kexec-tools-2.0.20-57.0.3.el8.x86\_64  
209 keyutils-libs-1.5.10-6.el8.x86\_64  
210 kmod-25-17.0.1.el8.x86\_64  
211 kmod-libs-25-17.0.1.el8.x86\_64  
212 kpartx-0.8.4-10.el8.x86\_64  
213 krb5-libs-1.18.2-8.3.el8\_4.x86\_64  
214 lapack-3.8.0-8.el8.x86\_64  
215 lcms2-2.9-2.el8.x86\_64  
216 ldns-1.7.0-21.el8.x86\_64  
217 less-530-1.el8.x86\_64  
218 libacl-2.2.53-1.el8.x86\_64  
219 libaec-1.0.2-3.el8.x86\_64  
220 libarchive-3.3.3-1.el8.x86\_64  
221 libassuan-2.5.1-3.el8.x86\_64  
222 libatomic\_ops-7.6.2-3.el8.x86\_64  
223 libattr-2.4.48-3.el8.x86\_64  
224 libbabeltrace-1.5.4-3.el8.x86\_64  
225 libbasicobjects-0.1.1-39.el8.x86\_64

226 libblkid-2.32.1-28.el8.x86\_64  
227 libbsd-0.9.1-4.el8.x86\_64  
228 libcap-2.26-4.el8.x86\_64  
229 libcap-ng-0.7.9-5.el8.x86\_64  
230 libcap-ng-utils-0.7.9-5.el8.x86\_64  
231 libcollection-0.7.0-39.el8.x86\_64  
232 libcom\_err-1.45.6-2.el8.x86\_64  
233 libcomps-0.1.16-2.el8.x86\_64  
234 libcroco-0.6.12-4.el8\_2.1.x86\_64  
235 libcurl-7.61.1-22.el8.x86\_64  
236 libdap-3.19.1-2.el8.x86\_64  
237 libdatrie-0.2.9-7.el8.x86\_64  
238 libdb-5.3.28-42.el8\_4.x86\_64  
239 libdb-utils-5.3.28-42.el8\_4.x86\_64  
240 libdhash-0.5.0-39.el8.x86\_64  
241 libdnf-0.63.0-3.0.1.el8.x86\_64  
242 libdrm-2.4.103-1.el8.x86\_64  
243 libedit-3.1-23.20170329cvs.el8.x86\_64  
244 libestr-0.1.10-1.el8.x86\_64  
245 libevdev-1.10.0-1.el8.x86\_64  
246 libevent-2.1.8-5.el8.x86\_64  
247 libfastjson-0.99.9-1.el8.x86\_64  
248 libfdisk-2.32.1-28.el8.x86\_64  
249 libffi-3.1-22.el8.x86\_64  
250 libgcc-8.5.0-4.0.1.el8\_5.x86\_64  
251 libgcrypt-1.8.5-6.el8.x86\_64  
252 libgeotiff16-1.6.0-5.rhel8.x86\_64  
253 libgeotiff16-devel-1.6.0-5.rhel8.x86\_64  
254 libgfortran-8.5.0-4.0.1.el8\_5.x86\_64  
255 libglvnd-1.3.2-1.el8.x86\_64  
256 libglvnd-egl-1.3.2-1.el8.x86\_64  
257 libglvnd-glx-1.3.2-1.el8.x86\_64  
258 libgomp-8.5.0-4.0.1.el8\_5.x86\_64  
259 libgpg-error-1.31-1.el8.x86\_64  
260 libgta-1.2.1-1.el8.x86\_64  
261 libgudev-232-4.el8.x86\_64  
262 libibverbs-35.0-1.el8.x86\_64  
263 libICE-1.0.9-15.el8.x86\_64

264 libicu-60.3-2.el8\_1.x86\_64  
265 libidn2-2.2.0-1.el8.x86\_64  
266 libini\_config-1.3.1-39.el8.x86\_64  
267 libinput-1.16.3-2.el8.x86\_64  
268 libipt-1.6.1-8.el8.x86\_64  
269 libjpeg-turbo-1.5.3-12.el8.x86\_64  
270 libkcapi-1.2.0-2.0.1.el8.x86\_64  
271 libkcapi-hmacalc-1.2.0-2.0.1.el8.x86\_64  
272 libksba-1.3.5-7.el8.x86\_64  
273 libldb-2.2.0-2.el8.x86\_64  
274 libmaxminddb-1.2.0-10.el8.x86\_64  
275 libmetalink-0.1.3-7.el8.x86\_64  
276 libmnl-1.0.4-6.el8.x86\_64  
277 libmodulemd1-1.8.16-0.2.13.0.1.x86\_64  
278 libmodulemd-2.13.0-1.el8.x86\_64  
279 libmount-2.32.1-28.el8.x86\_64  
280 libmspack-0.7-0.3.alpha.el8.4.x86\_64  
281 libnetfilter\_contrack-1.0.6-5.el8.x86\_64  
282 libnetfilter\_cthelper-1.0.0-15.el8.x86\_64  
283 libnetfilter\_cttimeout-1.0.0-11.el8.x86\_64  
284 libnetfilter\_queue-1.0.4-3.el8.x86\_64  
285 libnfnetlink-1.0.1-13.el8.x86\_64  
286 libnfsidmap-2.3.3-41.el8\_4.3.x86\_64  
287 libnftnl-1.1.5-4.el8.x86\_64  
288 libnghttp2-1.41.0-1.module\_el8+9071+b2b61c14.x86\_64  
289 libnl3-3.5.0-1.el8.x86\_64  
290 libnsl2-1.2.0-2.20180605git4a062cf.el8.x86\_64  
291 libpath\_utils-0.2.1-39.el8.x86\_64  
292 libpcap-1.9.1-5.el8.x86\_64  
293 libpciaccess-0.14-1.el8.x86\_64  
294 libpipeline-1.5.0-2.el8.x86\_64  
295 libpkgconf-1.4.2-1.el8.x86\_64  
296 libpng-1.6.34-5.el8.x86\_64  
297 libpq5-14.0-42PGDG.rhel8.x86\_64  
298 libprelude-5.2.0-1.el8.x86\_64  
299 libpsl-0.20.2-6.el8.x86\_64  
300 libpwquality-1.4.4-3.el8.x86\_64  
301 libqb-1.0.3-12.el8.x86\_64



- 302 libquadmath-8.5.0-4.0.1.el8\_5.x86\_64
- 303 libref\_array-0.1.5-39.el8.x86\_64
- 304 librepo-1.14.0-2.el8.x86\_64
- 305 libreport-filessystem-2.9.5-15.0.2.el8.x86\_64
- 306 libreswan-4.4-4.0.1.el8\_5.x86\_64
- 307 librttopo-1.1.0-1.rhel8.x86\_64
- 308 libseccomp-2.5.1-1.el8.x86\_64
- 309 libsecret-0.18.6-1.el8.x86\_64
- 310 libselinux-2.9-5.el8.x86\_64
- 311 libselinux-utils-2.9-5.el8.x86\_64
- 312 libsemanage-2.9-6.el8.x86\_64
- 313 libsepol-2.9-3.el8.x86\_64
- 314 libsigsegv-2.11-5.el8.x86\_64
- 315 libSM-1.2.3-1.el8.x86\_64
- 316 libsmartcols-2.32.1-28.el8.x86\_64
- 317 libsolv-0.7.19-1.el8.x86\_64
- 318 libspatialite50-5.0.1-3.rhel8.x86\_64
- 319 libspatialite50-devel-5.0.1-3.rhel8.x86\_64
- 320 libss-1.45.6-2.el8.x86\_64
- 321 libssh-0.9.4-3.el8.x86\_64
- 322 libssh-config-0.9.4-3.el8.noarch
- 323 libsss\_autofs-2.5.2-2.0.1.el8.x86\_64
- 324 libsss\_certmap-2.5.2-2.0.1.el8.x86\_64
- 325 libsss\_idmap-2.5.2-2.0.1.el8.x86\_64
- 326 libsss\_nss\_idmap-2.5.2-2.0.1.el8.x86\_64
- 327 libsss\_sudo-2.5.2-2.0.1.el8.x86\_64
- 328 libstdc++-8.5.0-4.0.1.el8\_5.x86\_64
- 329 libsysfs-2.1.0-24.el8.x86\_64
- 330 libtalloc-2.3.1-2.el8.x86\_64
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- 332 libtdb-1.4.3-1.el8.x86\_64
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- 337 libtirpc-1.1.4-4.0.1.el8.x86\_64
- 338 libtool-ltdl-2.4.6-25.el8.x86\_64
- 339 libunistring-0.9.9-3.el8.x86\_64

340 libusb-0.1.5-12.el8.x86\_64  
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342 libuser-0.62-23.el8.x86\_64  
343 libutempter-1.1.6-14.el8.x86\_64  
344 libuuid-2.32.1-28.el8.x86\_64  
345 libverto-0.3.0-5.el8.x86\_64  
346 libwacom-1.6-2.1.el8\_4.x86\_64  
347 libwacom-data-1.6-2.1.el8\_4.noarch  
348 libwayland-client-1.17.0-1.el8.x86\_64  
349 libwayland-server-1.17.0-1.el8.x86\_64  
350 libwebp-1.0.0-5.el8.x86\_64  
351 libX11-1.6.8-5.el8.x86\_64  
352 libX11-common-1.6.8-5.el8.noarch  
353 libX11-xcb-1.6.8-5.el8.x86\_64  
354 libXau-1.0.9-3.el8.x86\_64  
355 libxcb-1.13.1-1.el8.x86\_64  
356 libxcrypt-4.1.1-6.el8.x86\_64  
357 libXext-1.3.4-1.el8.x86\_64  
358 libXfixes-5.0.3-7.el8.x86\_64  
359 libXft-2.3.3-1.el8.x86\_64  
360 libxkbcommon-0.9.1-1.el8.x86\_64  
361 libxkbcommon-x11-0.9.1-1.el8.x86\_64  
362 libxml2-2.9.7-9.0.2.el8\_4.2.x86\_64  
363 libXrender-0.9.10-7.el8.x86\_64  
364 libxshmfence-1.3-2.el8.x86\_64  
365 libxslt-1.1.32-6.0.1.el8.x86\_64  
366 libXxf86vm-1.1.4-9.el8.x86\_64  
367 libyaml-0.1.7-5.el8.x86\_64  
368 libzstd-1.4.4-1.0.1.el8.x86\_64  
369 linux-firmware-20201218-102.git05789708.el8.noarch  
370 lmdb-libs-0.9.24-1.el8.x86\_64  
371 lm\_sensors-libs-3.4.0-22.20180522git70f7e08.el8.x86\_64  
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374 lsof-4.93.2-1.el8.x86\_64  
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376 lua-libs-5.3.4-12.el8.x86\_64  
377 lwl-base-appliance-8.0-202202222110.stable.72303b4.noarch

378 lwl-base-appliance-oracle-8.0-202202222110.stable.72303b4.noarch  
379 lwl-base-appliance-vmware-8.0-master.916427a.noarch  
380 lwl-config-utils-1.0.0-78843.noarch  
381 lwl-console-2.0.0-78564.noarch  
382 lwl-db-config-1.0.9-202110051506.noarch  
383 lwl-db-config-systemd-1.0.9-202110051506.noarch  
384 lwl-db-server-1.0.5-2.noarch  
385 lwl-db-setup-1.0.0-78342.noarch  
386 lwl-httpd-config-1.0.2-78742.noarch  
387 lwl-hub-munin-postgresql-1.0.1-77568.noarch  
388 lwl-keyring-1.0.8-78676.noarch  
389 lwl-munin-1.0.0-77567.noarch  
390 lwl-natsd-0.23.1-2.x86\_64  
391 lwl-service-applianced-0.2.0-202111011132.x86\_64  
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393 lz4-libs-1.8.3-3.el8\_4.x86\_64  
394 lzo-2.08-14.el8.x86\_64  
395 mailcap-2.1.48-3.el8.noarch  
396 mailx-12.5-29.el8.x86\_64  
397 mariadb-connector-c-3.1.11-2.el8\_3.x86\_64  
398 mariadb-connector-c-config-3.1.11-2.el8\_3.noarch  
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402 mesa-libGL-21.1.5-1.el8.x86\_64  
403 mesa-libglapi-21.1.5-1.el8.x86\_64  
404 microcode\_ctl-20210608-1.0.1.el8.x86\_64  
405 minizip-2.8.9-2.el8.x86\_64  
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409 mod\_security\_crs-3.3.0-2.el8.noarch  
410 mod\_ssl-2.4.37-43.0.2.module+el8.5.0+20470+f38d0c8f.x86\_64  
411 mozjs60-60.9.0-4.0.1.el8.x86\_64  
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431 nss-sysinit-3.67.0-7.el8\_5.x86\_64  
432 nss-tools-3.67.0-7.el8\_5.x86\_64  
433 nss-util-3.67.0-7.el8\_5.x86\_64  
434 numactl-libs-2.0.12-13.el8.x86\_64  
435 ocaml-srpm-macros-5-4.el8.noarch  
436 oddjob-0.34.7-1.el8.x86\_64  
437 oddjob-mkhomedir-0.34.7-1.el8.x86\_64  
438 ogdi41-4.1.0-2.rhel8.x86\_64  
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454 openssl-libs-1.1.1k-5.el8\_5.x86\_64  
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457 open-vm-tools-11.2.5-2.0.1.el8.x86\_64  
458 oracle-epel-release-el8-1.0-3.el8.x86\_64  
459 oraclelinux-release-8.5-1.0.8.el8.x86\_64  
460 oraclelinux-release-el8-1.0-21.el8.x86\_64  
461 oracle-logos-httpd-84.5-1.0.1.el8.noarch  
462 os-prober-1.74-9.0.1.el8.x86\_64  
463 p11-kit-0.23.22-1.el8.x86\_64  
464 p11-kit-trust-0.23.22-1.el8.x86\_64  
465 pam-1.3.1-15.el8.x86\_64  
466 pango-1.42.4-8.el8.x86\_64  
467 parted-3.2-39.0.1.el8.x86\_64  
468 passwd-0.80-3.el8.x86\_64  
469 patch-2.7.6-11.el8.x86\_64  
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471 pciutils-libs-3.7.0-1.el8.x86\_64  
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475 perl-Authen-SASL-2.16-13.el8.noarch  
476 perl-B-Hooks-EndOfScope-0.21-6.el8.noarch  
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478 perl-Cache-Cache-1.08-15.el8.noarch  
479 perl-Carp-1.42-396.el8.noarch  
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483 perl-Class-Inspector-1.32-2.el8.noarch  
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485 perl-Class-Singleton-1.5-9.el8.noarch  
486 perl-Compress-Raw-Bzip2-2.081-1.el8.x86\_64  
487 perl-Compress-Raw-Zlib-2.081-1.el8.x86\_64  
488 perl-constant-1.33-396.el8.noarch  
489 perl-Convert-ASN1-0.27-17.el8.noarch  
490 perl-Convert-UU-0.5201-27.el8.noarch  
491 perl-Crypt-DES-2.07-19.1.el8.x86\_64

492 perl-Data-Dump-1.23-7.module+el8.3.0+7692+542c56f9.noarch  
493 perl-Data-Dumper-2.167-399.el8.x86\_64  
494 perl-Data-OptList-0.110-6.el8.noarch  
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501 perl-DateTime-TimeZone-Tzfile-0.011-3.el8.noarch  
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512 perl-Digest-SHA1-2.13-23.el8.x86\_64  
513 perl-Digest-SHA-6.02-1.el8.x86\_64  
514 perl-Dist-CheckConflicts-0.11-11.el8.noarch  
515 perl-DynaLoader-Functions-0.003-2.el8.noarch  
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517 perl-Encode-2.97-3.el8.x86\_64  
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523 perl-Expect-1.35-10.el8.noarch  
524 perl-Exporter-5.72-396.el8.noarch  
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566 perl-Math-BigRat-0.2614-1.el8.noarch  
567 perl-Math-Complex-1.59-420.el8.noarch

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601 perl-Ref-Util-XS-0.117-2.el8.x86\_64  
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605 perl-Socket-2.027-3.el8.x86\_64



606 perl-Socket6-0.28-6.el8.x86\_64  
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612 perl-Sub-Identify-0.14-6.el8.x86\_64  
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614 perl-Sys-Syslog-0.35-397.el8.x86\_64  
615 perl-Taint-Runtime-0.03-32.el8.x86\_64  
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635 perl-XML-LibXML-2.0132-2.el8.x86\_64  
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643 pg\_partman\_12-4.6.0-1.rhel8.x86\_64

644 pg\_top12-3.7.0-5.rhel8.2.x86\_64  
645 pgtune-0.9.3-12.da57e00.el7.noarch  
646 pigz-2.4-4.el8.x86\_64  
647 pinentry-1.1.0-2.el8.x86\_64  
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649 pkgconf-1.4.2-1.el8.x86\_64  
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652 platform-python-3.6.8-41.0.1.el8.x86\_64  
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671 proj80-8.0.1-1.rhel8.x86\_64  
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673 protobuf-3.5.0-13.el8.x86\_64  
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676 publicsuffix-list-dafsa-20180723-1.el8.noarch  
677 python2-2.7.18-7.0.1.module+el8.5.0+20361+8a9d3d27.x86\_64  
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688 python3-dateutil-2.6.1-6.el8.noarch  
689 python3-dbus-1.2.4-15.el8.x86\_64  
690 python3-decorator-4.2.1-2.el8.noarch  
691 python3-dnf-4.7.0-4.0.1.el8.noarch  
692 python3-dnf-plugins-core-4.0.21-4.0.1.el8\_5.noarch  
693 python3-gobject-base-3.28.3-2.el8.x86\_64  
694 python3-gpg-1.13.1-9.el8.x86\_64  
695 python3-hawkey-0.63.0-3.0.1.el8.x86\_64  
696 python3-humanize-0.5.1-13.el8.noarch  
697 python3-libcomps-0.1.16-2.el8.x86\_64  
698 python3-libdnf-0.63.0-3.0.1.el8.x86\_64  
699 python3-libs-3.6.8-41.0.1.el8.x86\_64  
700 python3-libseltlinux-2.9-5.el8.x86\_64  
701 python3-libsemanage-2.9-6.el8.x86\_64  
702 python3-linux-procfs-0.6.3-1.el8.noarch  
703 python3-perf-4.18.0-348.12.2.el8\_5.x86\_64  
704 python3-pip-9.0.3-20.el8.noarch  
705 python3-pip-wheel-9.0.3-20.el8.noarch  
706 python3-policycoreutils-2.9-14.el8.noarch  
707 python3-psutil-5.7.3-1.el8.x86\_64  
708 python3-psycopg2-2.8.6-1.rhel8.x86\_64  
709 python3-pyudev-0.21.0-7.el8.noarch  
710 python3-rpm-4.14.3-19.el8\_5.2.x86\_64  
711 python3-rpm-macros-3-41.el8.noarch  
712 python3-schedutils-0.6-6.el8.x86\_64  
713 python3-setools-4.3.0-2.el8.x86\_64  
714 python3-setuptools-39.2.0-6.el8.noarch  
715 python3-setuptools-wheel-39.2.0-6.el8.noarch  
716 python3-six-1.11.0-8.el8.noarch  
717 python3-syspurpose-1.28.13-3.el8\_4.x86\_64  
718 python3-unbound-1.7.3-17.el8.x86\_64  
719 python3-wcwidth-0.2.5-3.el8.noarch

720 python-rpm-macros-3-41.el8.noarch  
721 python-srpm-macros-3-41.el8.noarch  
722 qt5-qtbase-5.15.2-3.el8.x86\_64  
723 qt5-qtbase-common-5.15.2-3.el8.noarch  
724 qt5-qtbase-gui-5.15.2-3.el8.x86\_64  
725 qt5-qtsvg-5.15.2-3.el8.x86\_64  
726 qt5-srpm-macros-5.15.2-1.el8.noarch  
727 rdma-core-35.0-1.el8.x86\_64  
728 readline-7.0-10.el8.x86\_64  
729 redhat-release-8.5-0.8.0.2.el8.x86\_64  
730 redhat-rpm-config-125-1.0.1.el8.noarch  
731 remi-release-8.5-2.el8.remi.noarch  
732 rng-tools-6.13-1.git.d207e0b6.el8.x86\_64  
733 rootfiles-8.1-22.el8.noarch  
734 rpm-4.14.3-19.el8\_5.2.x86\_64  
735 rpm-build-4.14.3-19.el8\_5.2.x86\_64  
736 rpm-build-libs-4.14.3-19.el8\_5.2.x86\_64  
737 rpmdevtools-8.10-8.0.1.el8.noarch  
738 rpm-libs-4.14.3-19.el8\_5.2.x86\_64  
739 rpm-plugin-fapolicyd-4.14.3-19.el8\_5.2.x86\_64  
740 rpm-plugin-selinux-4.14.3-19.el8\_5.2.x86\_64  
741 rpm-plugin-systemd-inhibit-4.14.3-19.el8\_5.2.x86\_64  
742 rrdtool-1.7.0-16.el8.x86\_64  
743 rrdtool-perl-1.7.0-16.el8.x86\_64  
744 rsyslog-8.2102.0-5.el8.x86\_64  
745 rsyslog-gnutls-8.2102.0-5.el8.x86\_64  
746 rust-srpm-macros-5-2.el8.noarch  
747 scap-security-guide-0.1.57-3.0.1.el8\_4.noarch  
748 sed-4.5-2.el8.x86\_64  
749 selinux-policy-3.14.3-80.0.1.el8.noarch  
750 selinux-policy-targeted-3.14.3-80.0.1.el8.noarch  
751 setup-2.12.2-6.el8.noarch  
752 SFCGAL-1.3.7-2.rhel8.x86\_64  
753 SFCGAL-libs-1.3.7-2.rhel8.x86\_64  
754 sg3\_utils-1.44-5.el8.x86\_64  
755 sg3\_utils-libs-1.44-5.el8.x86\_64  
756 shadow-utils-4.6-14.el8.x86\_64  
757 shapelib-1.5.0-1.el8.x86\_64

758 shared-mime-info-1.9-3.el8.x86\_64  
759 sharutils-4.15.2-11.el8.x86\_64  
760 snappy-1.1.8-3.el8.x86\_64  
761 sqlite-libs-3.26.0-15.el8.x86\_64  
762 squashfs-tools-4.3-20.el8.x86\_64  
763 sscg-2.3.3-14.el8.x86\_64  
764 sssd-client-2.5.2-2.0.1.el8.x86\_64  
765 sssd-common-2.5.2-2.0.1.el8.x86\_64  
766 sssd-kcm-2.5.2-2.0.1.el8.x86\_64  
767 sssd-nfs-idmap-2.5.2-2.0.1.el8.x86\_64  
768 sudo-1.8.29-7.el8\_4.1.x86\_64  
769 SuperLU-5.2.0-7.el8.x86\_64  
770 sysstat-11.7.3-6.0.1.el8.x86\_64  
771 systemd-239-51.0.1.el8.x86\_64  
772 systemd-libs-239-51.0.1.el8.x86\_64  
773 systemd-pam-239-51.0.1.el8.x86\_64  
774 systemd-udev-239-51.0.1.el8.x86\_64  
775 tar-1.30-5.el8.x86\_64  
776 tcl-8.6.8-2.el8.x86\_64  
777 timedatex-0.5-3.el8.x86\_64  
778 tmpwatch-2.11-14.el8.x86\_64  
779 tmux-2.7-1.el8.x86\_64  
780 tnt-base-4.0.1-62018.noarch  
781 tnt-db-location-1.0.0-78596.noarch  
782 tnt-libperlntnt-1.5.0-65269.noarch  
783 tnt-release-6.6.0-1\_202202222056.noarch  
784 tnt-setup-1.8.2-78789.noarch  
785 tnt-setup-vmware-1.8.2-78789.noarch  
786 tnt-tools-1.5.5-78342.x86\_64  
787 tpm2-tss-2.3.2-4.el8.x86\_64  
788 trousers-0.3.15-1.el8.x86\_64  
789 trousers-lib-0.3.15-1.el8.x86\_64  
790 tuned-2.16.0-1.0.1.el8.noarch  
791 tzdata-2021e-1.el8.noarch  
792 unbound-libs-1.7.3-17.el8.x86\_64  
793 unixODBC-2.3.7-1.el8.x86\_64  
794 unzip-6.0-45.el8\_4.x86\_64  
795 usbguard-1.0.0-2.el8.x86\_64

796 usbguard-selinux-1.0.0-2.el8.noarch  
797 usermode-1.113-2.el8.x86\_64  
798 util-linux-2.32.1-28.el8.x86\_64  
799 util-linux-user-2.32.1-28.el8.x86\_64  
800 vim-minimal-8.0.1763-16.0.1.el8\_5.4.x86\_64  
801 virt-what-1.18-12.el8.x86\_64  
802 vs-helper-6.6.0-3.x86\_64  
803 wget-1.19.5-10.0.1.el8.x86\_64  
804 which-2.21-16.el8.x86\_64  
805 xcb-util-0.4.0-10.el8.x86\_64  
806 xcb-util-image-0.4.0-9.el8.x86\_64  
807 xcb-util-keysyms-0.4.0-7.el8.x86\_64  
808 xcb-util-renderutil-0.3.9-10.el8.x86\_64  
809 xcb-util-wm-0.4.1-12.el8.x86\_64  
810 xdelta-3.1.0-4.el8.x86\_64  
811 xerces-c-3.2.2-3.el8.x86\_64  
812 xfsprogs-5.4.0-1.0.1.el8.x86\_64  
813 xkeyboard-config-2.28-1.el8.noarch  
814 xml-common-0.6.3-50.el8.noarch  
815 xmlsec1-1.2.25-4.el8.x86\_64  
816 xmlsec1-openssl-1.2.25-4.el8.x86\_64  
817 xz-5.2.4-3.el8.x86\_64  
818 xz-libs-5.2.4-3.el8.x86\_64  
819 yajl-2.1.0-10.el8.x86\_64  
820 yum-4.7.0-4.0.1.el8.noarch  
821 yum-utils-4.0.21-4.0.1.el8\_5.noarch  
822 zip-3.0-23.el8.x86\_64  
823 zlib-1.2.11-17.el8.x86\_64  
824 zstd-1.4.4-1.0.1.el8.x86\_64

## Stratusphere Collector Appliance Installed Packages

- 1 acl-2.2.53-1.el8.x86\_64
- 2 aide-0.16-14.el8\_5.1.x86\_64
- 3 alsa-lib-1.2.5-4.el8.x86\_64
- 4 apache-commons-cli-1.4-4.module+el8+5161+5cac467c.noarch
- 5 apache-commons-codec-1.13-3.module\_el8.2.0+364+b808f688.noarch
- 6 apache-commons-collections-3.2.2-10.module\_el8.2.0+315+896aef55.noarch
- 7 apr-1.6.3-12.el8.x86\_64
- 8 apr-util-1.6.1-6.el8.x86\_64
- 9 apr-util-bdb-1.6.1-6.el8.x86\_64
- 10 apr-util-openssl-1.6.1-6.el8.x86\_64
- 11 atk-2.28.1-1.el8.x86\_64
- 12 audispd-plugins-3.0-0.17.20191104git1c2f876.el8.x86\_64
- 13 audit-3.0-0.17.20191104git1c2f876.el8.x86\_64
- 14 audit-libs-3.0-0.17.20191104git1c2f876.el8.x86\_64
- 15 authselect-1.2.2-3.el8.x86\_64
- 16 authselect-compat-1.2.2-3.el8.x86\_64
- 17 authselect-libs-1.2.2-3.el8.x86\_64
- 18 avahi-libs-0.7-20.el8.x86\_64
- 19 basesystem-11-5.el8.noarch
- 20 bash-4.4.20-2.el8.x86\_64
- 21 bc-1.07.1-5.el8.x86\_64
- 22 bind-export-libs-9.11.26-6.el8.x86\_64
- 23 binutils-2.30-108.0.2.el8\_5.1.x86\_64
- 24 bridge-utils-1.7.1-2.el8.x86\_64
- 25 brotli-1.0.6-3.el8.x86\_64
- 26 bzip2-1.0.6-26.el8.x86\_64
- 27 bzip2-libs-1.0.6-26.el8.x86\_64
- 28 ca-certificates-2021.2.50-80.0.el8\_4.noarch
- 29 cairo-1.15.12-3.el8.x86\_64
- 30 c-ares-1.13.0-5.el8.x86\_64
- 31 centos-gpg-keys-8-2.el8.noarch
- 32 checkpolicy-2.9-1.el8.x86\_64
- 33 chkconfig-1.19.1-1.0.1.el8.x86\_64
- 34 chkrootkit-0.50-4el7.x86\_64
- 35 chrony-4.1-1.0.1.el8.x86\_64

- 36 clamav-0.103.1-3.el8.x86\_64
- 37 clamav-data-0.103.1-3.el8.noarch
- 38 clamav-filesystem-0.103.1-3.el8.noarch
- 39 clamav-lib-0.103.1-3.el8.x86\_64
- 40 clamav-update-0.103.1-3.el8.x86\_64
- 41 cntlm-0.92.3-1.x86\_64
- 42 conntrack-tools-1.4.4-10.el8.x86\_64
- 43 copy-jdk-configs-4.0-2.el8.noarch
- 44 coreutils-8.30-12.0.1.el8.x86\_64
- 45 coreutils-common-8.30-12.0.1.el8.x86\_64
- 46 cpio-2.12-10.el8.x86\_64
- 47 cracklib-2.9.6-15.el8.x86\_64
- 48 cracklib-dicts-2.9.6-15.el8.x86\_64
- 49 cronie-1.5.2-4.el8.x86\_64
- 50 cronie-anacron-1.5.2-4.el8.x86\_64
- 51 crontabs-1.11-17.20190603git.el8.noarch
- 52 crypto-policies-20210617-1.gitc776d3e.el8.noarch
- 53 crypto-policies-scripts-20210617-1.gitc776d3e.el8.noarch
- 54 cryptsetup-2.3.3-4.el8\_5.1.x86\_64
- 55 cryptsetup-libs-2.3.3-4.el8\_5.1.x86\_64
- 56 cups-libs-2.2.6-40.el8.x86\_64
- 57 curl-7.61.1-22.el8.x86\_64
- 58 cyrus-sasl-lib-2.1.27-5.el8.x86\_64
- 59 dbus-1.12.8-14.0.1.el8.x86\_64
- 60 dbus-common-1.12.8-14.0.1.el8.noarch
- 61 dbus-daemon-1.12.8-14.0.1.el8.x86\_64
- 62 dbus-glib-0.110-2.el8.x86\_64
- 63 dbus-libs-1.12.8-14.0.1.el8.x86\_64
- 64 dbus-tools-1.12.8-14.0.1.el8.x86\_64
- 65 dejavu-fonts-common-2.35-7.el8.noarch
- 66 dejavu-sans-mono-fonts-2.35-7.el8.noarch
- 67 device-mapper-1.02.177-10.el8.x86\_64
- 68 device-mapper-libs-1.02.177-10.el8.x86\_64
- 69 dhcp-client-4.3.6-45.el8.x86\_64
- 70 dhcp-common-4.3.6-45.el8.noarch
- 71 dhcp-libs-4.3.6-45.el8.x86\_64
- 72 diffutils-3.6-6.el8.x86\_64
- 73 dmidecode-3.2-10.0.1.el8.x86\_64



74 dnf-4.7.0-4.0.1.el8.noarch  
75 dnf-automatic-4.7.0-4.0.1.el8.noarch  
76 dnf-data-4.7.0-4.0.1.el8.noarch  
77 dnf-plugins-core-4.0.21-4.0.1.el8\_5.noarch  
78 dracut-049-191.git20210920.0.1.el8.x86\_64  
79 dracut-config-rescue-049-191.git20210920.0.1.el8.x86\_64  
80 dracut-network-049-191.git20210920.0.1.el8.x86\_64  
81 dracut-squash-049-191.git20210920.0.1.el8.x86\_64  
82 dwz-0.12-10.el8.x86\_64  
83 e2fsprogs-1.45.6-2.el8.x86\_64  
84 e2fsprogs-libs-1.45.6-2.el8.x86\_64  
85 ed-1.14.2-4.el8.x86\_64  
86 efi-srpm-macros-3-3.0.1.el8.noarch  
87 elfutils-0.185-1.el8.x86\_64  
88 elfutils-debuginfod-client-0.185-1.el8.x86\_64  
89 elfutils-default-yama-scope-0.185-1.el8.noarch  
90 elfutils-libelf-0.185-1.el8.x86\_64  
91 elfutils-libs-0.185-1.el8.x86\_64  
92 elrepo-release-8.2-1.el8.elrepo.noarch  
93 emacsfilesystem-26.1-7.el8.noarch  
94 epel-release-8-13.el8.noarch  
95 ethtool-5.8-7.el8.x86\_64  
96 expat-2.2.5-4.el8.x86\_64  
97 expect-5.45.4-5.el8.x86\_64  
98 fapolicyd-1.0.2-6.0.1.el8.x86\_64  
99 fapolicyd-selinux-1.0.2-6.0.1.el8.noarch  
100 file-5.33-20.el8.x86\_64  
101 file-libs-5.33-20.el8.x86\_64  
102 filesystem-3.8-3.el8.x86\_64  
103 findutils-4.6.0-20.el8.x86\_64  
104 fipscheck-1.5.0-4.el8.x86\_64  
105 fipscheck-lib-1.5.0-4.el8.x86\_64  
106 firewalld-filesystem-0.9.3-7.0.2.el8.noarch  
107 fontconfig-2.13.1-3.el8.x86\_64  
108 fontpackages-filesystem-1.44-22.el8.noarch  
109 freetype-2.9.1-4.el8\_3.1.x86\_64  
110 fri bidi-1.0.4-8.el8.x86\_64  
111 fuse-2.9.7-12.0.3.el8.x86\_64

112 fuse-common-3.2.1-12.0.3.el8.x86\_64  
113 fuse-libs-2.9.7-12.0.3.el8.x86\_64  
114 gawk-4.2.1-2.el8.x86\_64  
115 gc-7.6.4-3.el8.x86\_64  
116 GConf2-3.2.6-22.el8.x86\_64  
117 gdb-headless-8.2-15.0.1.el8.x86\_64  
118 gdbm-1.18-1.el8.x86\_64  
119 gdbm-libs-1.18-1.el8.x86\_64  
120 gdk-pixbuf2-2.36.12-5.el8.x86\_64  
121 gdk-pixbuf2-modules-2.36.12-5.el8.x86\_64  
122 geolite2-city-20180605-1.el8.noarch  
123 geolite2-country-20180605-1.el8.noarch  
124 gettext-0.19.8.1-17.el8.x86\_64  
125 gettext-libs-0.19.8.1-17.el8.x86\_64  
126 ghc-srpm-macros-1.4.2-7.el8.noarch  
127 giflib-5.1.4-3.el8.x86\_64  
128 glib2-2.56.4-156.el8.x86\_64  
129 glibc-2.28-164.0.1.el8.x86\_64  
130 glibc-common-2.28-164.0.1.el8.x86\_64  
131 glibc-langpack-en-2.28-164.0.1.el8.x86\_64  
132 gmp-6.1.2-10.el8.x86\_64  
133 gnupg2-2.2.20-2.el8.x86\_64  
134 gnupg2-smime-2.2.20-2.el8.x86\_64  
135 gnutls-3.6.16-4.el8.x86\_64  
136 gobject-introspection-1.56.1-1.el8.x86\_64  
137 go-srpm-macros-2-17.el8.noarch  
138 gpgme-1.13.1-9.el8.x86\_64  
139 gpg-pubkey-00f97f56-467e318a  
140 gpg-pubkey-0364b949-58bd2928  
141 gpg-pubkey-2f86d6a1-5cf7cefb  
142 gpg-pubkey-478f8947-5ff329c5  
143 gpg-pubkey-4c21a808-5e4a9a41  
144 gpg-pubkey-5ba5fa8d-5ccc6012  
145 gpg-pubkey-5f11735a-5a58bcd7  
146 gpg-pubkey-846a40cd-5f7b444a  
147 gpg-pubkey-8483c65d-5ccc5b19  
148 gpg-pubkey-ad986da3-5cabf60d  
149 gpg-pubkey-baadae52-49beffa4

150 gpg-pubkey-bbae6f1b-5c790651  
151 graphite2-1.3.10-10.el8.x86\_64  
152 grep-3.1-6.el8.x86\_64  
153 groff-base-1.22.3-18.el8.x86\_64  
154 grub2-common-2.02-106.0.1.el8.noarch  
155 grub2-pc-2.02-106.0.1.el8.x86\_64  
156 grub2-pc-modules-2.02-106.0.1.el8.noarch  
157 grub2-tools-2.02-106.0.1.el8.x86\_64  
158 grub2-tools-efi-2.02-106.0.1.el8.x86\_64  
159 grub2-tools-extra-2.02-106.0.1.el8.x86\_64  
160 grub2-tools-minimal-2.02-106.0.1.el8.x86\_64  
161 grubby-8.40-42.0.1.el8.x86\_64  
162 gtk2-2.24.32-5.el8.x86\_64  
163 gtk-update-icon-cache-3.22.30-8.el8.x86\_64  
164 guile-2.0.14-7.el8.x86\_64  
165 gzip-1.9-12.el8.x86\_64  
166 hardlink-1.3-6.el8.x86\_64  
167 harfbuzz-1.7.5-3.el8.x86\_64  
168 hdparm-9.54-3.el8.x86\_64  
169 hicolor-icon-theme-0.17-2.el8.noarch  
170 hostname-3.20-6.el8.x86\_64  
171 httpd-2.4.37-43.0.2.module+el8.5.0+20470+f38d0c8f.x86\_64  
172 httpd-filesystem-2.4.37-43.0.2.module+el8.5.0+20470+f38d0c8f.noarch  
173 httpd-tools-2.4.37-43.0.2.module+el8.5.0+20470+f38d0c8f.x86\_64  
174 hwdata-0.314-8.8.el8.noarch  
175 ima-evm-utils-1.3.2-12.el8.x86\_64  
176 info-6.5-6.el8.x86\_64  
177 initscripts-10.00.15-1.el8.x86\_64  
178 ipcalc-0.2.4-4.el8.x86\_64  
179 iproute-5.9.0-4.el8.x86\_64  
180 iprutils-2.4.19-1.el8.x86\_64  
181 ipset-7.1-1.el8.x86\_64  
182 ipset-libs-7.1-1.el8.x86\_64  
183 iptables-1.8.4-20.0.1.el8.x86\_64  
184 iptables-libs-1.8.4-20.0.1.el8.x86\_64  
185 iptables-services-1.8.4-20.0.1.el8.x86\_64  
186 iputils-20180629-7.el8.x86\_64  
187 irqbalance-1.4.0-6.el8.x86\_64

188 jansson-2.11-3.el8.x86\_64  
189 jasper-libs-2.0.14-5.el8.x86\_64  
190 java-1.8.0-openjdk-1.8.0.322.b06-2.el8\_5.x86\_64  
191 java-1.8.0-openjdk-devel-1.8.0.322.b06-2.el8\_5.x86\_64  
192 java-1.8.0-openjdk-headless-1.8.0.322.b06-2.el8\_5.x86\_64  
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194 jbigkit-libs-2.1-14.el8.x86\_64  
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196 json-c-0.13.1-2.el8.x86\_64  
197 kbd-2.0.4-10.el8.x86\_64  
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279 libpq5-14.0-42PGDG.rhel8.x86\_64  
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321 libX11-1.6.8-5.el8.x86\_64  
322 libX11-common-1.6.8-5.el8.noarch  
323 libXau-1.0.9-3.el8.x86\_64  
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338 libxslt-1.1.32-6.0.1.el8.x86\_64  
339 libXtst-1.2.3-7.el8.x86\_64

- 340 libyaml-0.1.7-5.el8.x86\_64
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- 342 linux-firmware-20201218-102.git05789708.el8.noarch
- 343 lksctp-tools-1.0.18-3.el8.x86\_64
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- 350 lua-5.3.4-12.el8.x86\_64
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- 355 lwl-base-appliance-vmware-8.0-master.916427a.noarch
- 356 lwl-collector-1.0.0-78170.noarch
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- 358 lwl-collector-backend-deps-1.0.0-78840.noarch
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- 378 lwl-module-common-rest-api-0.63-1.noarch
- 379 lwl-module-database-config-0.152-1.noarch
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416 lwl-module-stratusphere-inspection-data-processor-copy-0.243-1.noarch  
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478 oddjob-0.34.7-1.el8.x86\_64  
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496 oracle-epel-release-el8-1.0-3.el8.x86\_64  
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525 perl-Compress-Raw-Zlib-2.081-1.el8.x86\_64  
526 perl-constant-1.33-396.el8.noarch  
527 perl-Convert-ASN1-0.27-17.el8.noarch  
528 perl-Convert-UU-0.5201-27.el8.noarch  
529 perl-Crypt-DES-2.07-19.1.el8.x86\_64

530 perl-Data-Dump-1.23-7.module+el8.3.0+7692+542c56f9.noarch  
531 perl-Data-Dumper-2.167-399.el8.x86\_64  
532 perl-Data-OptList-0.110-6.el8.noarch  
533 perl-Date-ISO8601-0.005-2.el8.noarch  
534 perl-Date-Manip-6.60-2.el8.noarch  
535 perl-DateTime-1.50-1.el8.x86\_64  
536 perl-DateTime-Locale-1.17-2.el8.noarch  
537 perl-DateTime-TimeZone-2.19-1.el8.noarch  
538 perl-DateTime-TimeZone-SystemV-0.010-3.el8.noarch  
539 perl-DateTime-TimeZone-Tzfile-0.011-3.el8.noarch  
540 perl-DBD-Pg-3.7.4-4.module+el8.3.0+7675+2476f418.x86\_64  
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543 perl-Devel-Caller-2.06-15.el8.x86\_64  
544 perl-Devel-GlobalDestruction-0.14-5.el8.noarch  
545 perl-Devel-LexAlias-0.05-16.el8.x86\_64  
546 perl-Devel-StackTrace-2.03-2.el8.noarch  
547 perl-Digest-1.17-395.el8.noarch  
548 perl-Digest-HMAC-1.03-17.module+el8.3.0+7692+542c56f9.noarch  
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550 perl-Digest-SHA1-2.13-23.el8.x86\_64  
551 perl-Digest-SHA-6.02-1.el8.x86\_64  
552 perl-Dist-CheckConflicts-0.11-11.el8.noarch  
553 perl-DynaLoader-Functions-0.003-2.el8.noarch  
554 perl-Email-Date-Format-1.005-11.el8.noarch  
555 perl-Encode-2.97-3.el8.x86\_64  
556 perl-Encode-Locale-1.05-10.module+el8.3.0+7692+542c56f9.noarch  
557 perl-Errno-1.28-420.el8.x86\_64  
558 perl-Error-0.17025-2.el8.noarch  
559 perl-Eval-Closure-0.14-5.el8.noarch  
560 perl-Exception-Class-1.44-2.el8.noarch  
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562 perl-Exporter-5.72-396.el8.noarch  
563 perl-Exporter-Tiny-1.000000-4.el8.noarch  
564 perl-FCGI-0.78-11.module+el8.1.0+5423+06ba8c9c.x86\_64  
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570 perl-Getopt-Long-2.50-4.el8.noarch  
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577 perl-HTTP-Message-6.18-1.module+el8.3.0+7692+542c56f9.noarch  
578 perl-HTTP-Negotiate-6.01-19.module+el8.3.0+7692+542c56f9.noarch  
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582 perl-IO-Compress-2.081-1.el8.noarch  
583 perl-IO-HTML-1.001-11.module+el8.3.0+7692+542c56f9.noarch  
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586 perl-IO-Socket-IP-0.39-5.el8.noarch  
587 perl-IO-Socket-SSL-2.066-4.module+el8.3.0+7674+5fd4be5f.noarch  
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592 perl-LDAP-0.66-7.el8.noarch  
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597 perl-List-MoreUtils-XS-0.428-3.el8.x86\_64  
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599 perl-Log-Dispatch-FileRotate-1.36-1.el8.noarch  
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604 perl-Mail-Sendmail-0.80-4.el8.noarch  
605 perl-MailTools-2.20-2.el8.noarch

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607 perl-Math-BigRat-0.2614-1.el8.noarch  
608 perl-Math-Complex-1.59-420.el8.noarch  
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611 perl-MIME-Types-2.17-3.el8.noarch  
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637 perl-podlators-4.11-1.el8.noarch  
638 perl-Pod-Perldoc-3.28-396.el8.noarch  
639 perl-Pod-Simple-3.35-395.el8.noarch  
640 perl-Pod-Usage-1.69-395.el8.noarch  
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643 perl-Role-Tiny-2.000006-2.el8.noarch

644 perl-Scalar-List-Utills-1.49-2.el8.x86\_64  
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652 perl-Sub-Exporter-Progressive-0.001013-5.el8.noarch  
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658 perl-Term-Cap-1.17-395.el8.noarch  
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660 perl-Text-ParseWords-3.30-395.el8.noarch  
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662 perl-Text-Tabs+Wrap-2013.0523-395.el8.noarch  
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673 perl-Variable-Magic-0.62-3.el8.x86\_64  
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675 perl-WWW-RobotRules-6.02-18.module+el8.3.0+7692+542c56f9.noarch  
676 perl-XML-LibXML-2.0132-2.el8.x86\_64  
677 perl-XML-NamespaceSupport-1.12-4.el8.noarch  
678 perl-XML-Parser-2.44-11.0.1.el8.x86\_64  
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680 perl-XML-SAX-Base-1.09-4.el8.noarch  
681 perl-XML-Simple-2.25-1.el8.noarch



682 pg\_partman\_12-4.6.0-1.rhel8.x86\_64  
683 pigz-2.4-4.el8.x86\_64  
684 pinentry-1.1.0-2.el8.x86\_64  
685 pixman-0.38.4-1.el8.x86\_64  
686 pkgconf-1.4.2-1.el8.x86\_64  
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688 pkgconf-pkg-config-1.4.2-1.el8.x86\_64  
689 platform-python-3.6.8-41.0.1.el8.x86\_64  
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691 platform-python-setuptools-39.2.0-6.el8.noarch  
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693 policycoreutils-python-utils-2.9-14.el8.noarch  
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695 polkit-libs-0.115-13.0.1.el8\_5.1.x86\_64  
696 polkit-pkla-compat-0.1-12.el8.x86\_64  
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698 postgresql12-12.9-1PGDG.rhel8.x86\_64  
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700 postgresql12-server-12.9-1PGDG.rhel8.x86\_64  
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704 protobuf-3.5.0-13.el8.x86\_64  
705 psmisc-23.1-5.el8.x86\_64  
706 publicsuffix-list-dafsa-20180723-1.el8.noarch  
707 python36-3.6.8-38.module+el8.5.0+20329+5c5719bc.x86\_64  
708 python3-audit-3.0.0-17.20191104git1c2f876.el8.x86\_64  
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714 python3-dnf-plugins-core-4.0.21-4.0.1.el8\_5.noarch  
715 python3-gobject-base-3.28.3-2.el8.x86\_64  
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745 redhat-rpm-config-125-1.0.1.el8.noarch  
746 remi-release-8.5-2.el8.remi.noarch  
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751 rpm-build-libs-4.14.3-19.el8\_5.2.x86\_64  
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755 rpm-plugin-selinux-4.14.3-19.el8\_5.2.x86\_64  
756 rpm-plugin-systemd-inhibit-4.14.3-19.el8\_5.2.x86\_64  
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758 rrdtool-perl-1.7.0-16.el8.x86\_64  
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760 rsyslog-gnutls-8.2102.0-5.el8.x86\_64  
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762 scap-security-guide-0.1.57-3.0.1.el8\_4.noarch  
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765 selinux-policy-targeted-3.14.3-80.0.1.el8.noarch  
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779 sssd-nfs-idmap-2.5.2-2.0.1.el8.x86\_64  
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781 sysstat-11.7.3-6.0.1.el8.x86\_64  
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783 systemd-libs-239-51.0.1.el8.x86\_64  
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785 systemd-udev-239-51.0.1.el8.x86\_64  
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792 tnt-base-4.0.1-62018.noarch  
793 tnt-brandit-1.3.0-78340.x86\_64  
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795 tnt-centos6-drivers-6.6.0-3.noarch

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797 tnt-common-java-deps-3.0.25-1.noarch  
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802 tnt-identity-common-java-3.3.6-78531.noarch  
803 tnt-identity-common-java-deps-3.3.1-78415.noarch  
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805 tnt-igateway-health-1.2.0-78557.noarch  
806 tnt-igel-drivers-6.6.0-3.noarch  
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813 tnt-osx-drivers-6.6.0-3.noarch  
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817 tnt-rhel4-drivers-6.6.0-3.noarch  
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820 tnt-setup-vmware-1.8.2-78789.noarch  
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844 which-2.21-16.el8.x86\_64  
845 xdelta-3.1.0-4.el8.x86\_64  
846 xfsprogs-5.4.0-1.0.1.el8.x86\_64  
847 xkeyboard-config-2.28-1.el8.noarch  
848 xml-common-0.6.3-50.el8.noarch  
849 xmlsec1-1.2.25-4.el8.x86\_64  
850 xmlsec1-openssl-1.2.25-4.el8.x86\_64  
851 xorg-x11-fonts-Type1-7.5-19.el8.noarch  
852 xorg-x11-font-utils-7.5-41.el8.x86\_64  
853 xz-5.2.4-3.el8.x86\_64  
854 xz-libs-5.2.4-3.el8.x86\_64  
855 yajl-2.1.0-10.el8.x86\_64  
856 yum-4.7.0-4.0.1.el8.noarch  
857 yum-utils-4.0.21-4.0.1.el8\_5.noarch  
858 zip-3.0-23.el8.x86\_64  
859 zlib-1.2.11-17.el8.x86\_64  
860 zstd-1.4.4-1.0.1.el8.x86\_64