



Stratusphere™ FIT/UX

Security Addendum

Introduction

This guide has been authored by experts at Liquidware to provide information and guidance configuring Stratusphere Hub and Database virtual appliances to meet security requirements.

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Purpose

This document has been created to aid System Administrators in configuring settings as may 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 6 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 6 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, please contact our Support and we will investigate and advise the best course of action.

Assumptions

It is assumed that the CentOS 6 version of Stratusphere appliances have already been deployed by following the latest instructions provided in the ***Stratusphere Installation & Configuration Guide***.

Securing Stratusphere

Do the following to complete installation of Stratusphere. The configuration steps marked OPTIONAL may be necessary to comply with your security policy. Use them accordingly.

Hub Advanced Configuration

Configure NTP Server

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

Session Timeout and Password Lockout

1. Expand the 'Other Settings' section.
2. Adjust login session timeout that conforms to your organization's security requirements.
3. Enable password lockout checkbox, to enable locking out the user if a wrong password is entered consecutively.
4. **API Client IPs:** Enter 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. Keep this field empty or lock it down to a very small list of addresses for highest security.

5. **Whitelist:** 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, by selecting them individually and on the User Details page, enabling the API Access checkbox.
6. **Blacklist:** If API Access from certain IP Networks needs to be restricted, then 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 but tries to access it from a client IP Address that is part of the blacklist, would still be denied access due to their IP Address being in part of the blacklist. If you want to disable API access completely you can enter 0.0.0.0 to block all IP Addresses.
7. Save changes.

Instructions for Installing SSL Certificate on Stratusphere Hub Appliance

Start with these initial few steps to prepare the certificate request:

1. On the Stratusphere Hub appliance local console, log in using User ID: 'friend' and Password: 'sspassword' first.
2. Switch to 'root' user using the following command and enter the password when prompted (default: 'sspassword'):

```
≥ su -
```

3. Change to the following folder using the command:

```
≥ cd /home/friend
```

4. Please 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
```

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

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

6. You will find the certificate request generated in the following location:

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

7. 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 User ID: 'friend' and Password: 'sspasword' 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, we will call it 'hubsslcert.crt' – this is the actual SSL Certificate you will receive back from your security provider or Certifying Authority.

*Pause here until you receive your SSL certificate from your provider.
After receiving your SSL Certificate from your provider, complete the
process with the remaining instructions:*

10. Use WinSCP or FileZilla or similar software to upload this 'hubsslcert.crt' SSL Certificate file to your Stratusphere Hub in the '/home/friend/hubsslcert.crt' location. In WinSCP or FileZilla, use User ID: 'friend' and Password: 'sspasword' 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 -r /etc/lwl/ssl
```

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

```
≥ /etc/init.d/lwl-httpd restart
```

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. Edit /etc/rsyslog.conf to contain a line sending all audit records to a remote audit server.
2. The server is specified by placing an "@" before the DNS name or IP address in the line.
*. * @<remote audit server>

Enable Two Factor Authentication (Optional)

1. Add CA certificate in PEM format

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

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

2. Turn on SSL client certificate check by editing the file `/etc/lwl/httpd/conf.d/clientcerts.conf` and following the instructions at the top of the file.

```
≥ vi /etc/lwl/httpd/conf.d/clientcerts.conf
≥ /etc/init.d/httpd restart
```

Setup 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, use the Network Configuration option in the LWL console to change this to use a static IPv6 address.

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. Set up 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'.
4. Join the Database to Hub
 - a. Log into the command line console using `ssconsole` credentials.
 - b. Go to D) Database VM Utilities.
 - c. Select J) Join this database to a hub.
 - d. Copy database from the hub and reboot hub when prompted.
5. (Optional) Encrypt data partition
 - a. Take a snapshot of the Database.
 - b. 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.
 - c. Power up the VM.
 - d. Log into the command line console using `ssconsole` credentials.
 - e. Enter D for D) Database VM Utilities.
 - f. Enter E for E) Setup Encrypted Database.
 - i. 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. Verification
 - a. Verify you can log in the web interface for the hub.
7. Navigate to the HUB ADMINISTRATION > DATA RETENTION tab and validate the database IP is correct.
8. Delete any snapshots that were created on the database during set up.

Instructions for Installing SSL Certificate on Stratusphere Database Appliance

Start with these initial few steps to prepare the certificate request:

1. On the Stratusphere Database appliance local console, log in using User ID: 'friend' and Password: 'ssppassword' first.
2. Switch to 'root' user using the following command and enter the password when prompted (default: 'ssppassword'):

```
≥ su -
```

3. Change to the following folder using the command:

```
≥ cd /home/friend
```

4. Please 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 Hub using the existing SSL Key.

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

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

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

6. You will find the certificate request generated in the following location:

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

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

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

8. 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 User ID: 'friend' and Password: 'ssppassword' 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, we will call the actual certificate file received from your Certifying Authority `server.crt`.

Pause here until you receive your SSL certificate from your provider. After receiving your SSL Certificate from your provider, complete the process with the remaining instructions:

10. Use WinSCP or FileZilla or similar software to upload this 'server.crt' SSL Certificate file to your Stratusphere Database in the '/home/friend/server.crt' location. In WinSCP or FileZilla, use User ID: 'friend' and Password: 'ssppassword' as credentials within the program. Use the SCP protocol with WinSCP (Port 22).

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

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

12. 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  
  
≥ chmod 400 /var/lib/pgsql/current/data/server.key
```

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

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

Collector Advanced Configuration

1. Power on the Collector appliance.
2. Set up 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 into 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.

Instructions for Installing SSL Certificate on Stratusphere Collector Appliance

Start with these initial few steps to prepare the certificate request:

1. On the Stratusphere Collector appliance local console, log in using User ID: 'friend' and Password: 'sspassword' first.
2. Switch to 'root' user using the following command and enter the password when prompted (default: 'sspassword'):

```
≥ su -
```

3. Change to the following folder using the command:

```
≥ cd /home/friend
```

4. Please 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
```

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

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

6. You will find the certificate request 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 to download this certificate request '/home/friend/colcertrequest.csr' file to your local desktop. In WinSCP or FileZilla, use 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. For these instructions, we will call it 'colsslcert.crt' – this is the actual SSL Certificate you will receive back from your security provider or Certifying Authority.

*Pause here until you receive your SSL certificate from your provider.
After receiving your SSL Certificate from your provider, complete the
process with the remaining instructions:*

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

11. 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
```

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/colsslcert.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 -r /etc/lwl/ssl
```

13. Restart the Collector to load the newly added SSL Certificate:

```
≥ /etc/init.d/httpd restart
```

Enable Enhanced Security Configuration

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

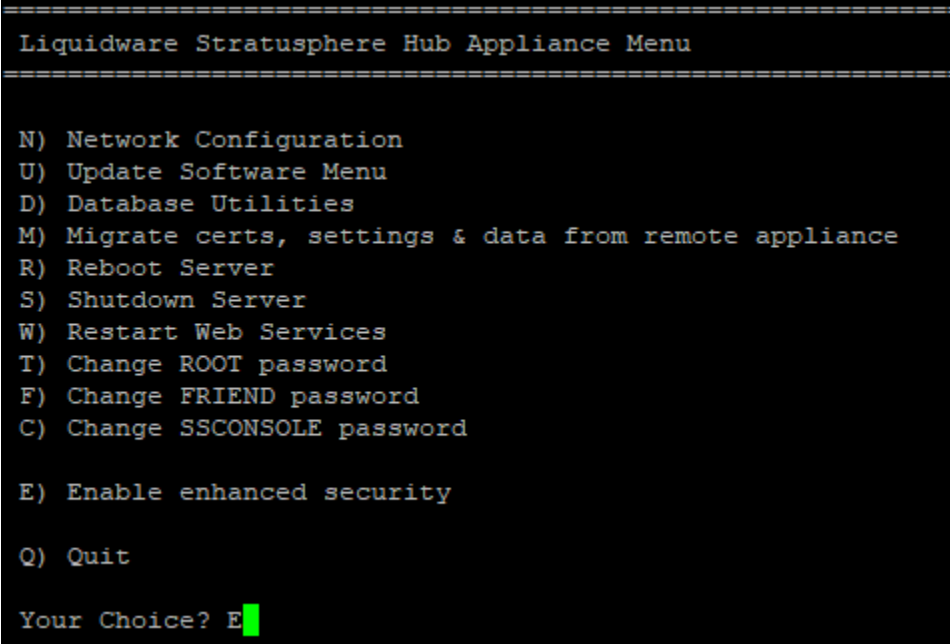
Immediately after enabling Enhanced Security, all existing passwords for the `friend`, `root`, and `ssconsole` users are immediately set to expired status, and the user needs to be prepared to update these user passwords with new, complex password as per STIG guidelines.

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

- Password complexity & expiration rules are enabled.
- Turns on issue notification in the user interface before logging.
- Turns off IPV6.
- Displays “For Official Use Only” messaging in the footer of the user interface.
- Turns on Security-Enhanced Linux (SELinux) Auditing which saves logfiles to `/var/log/audit`.
- Restricts access to port 5432. For the Hub appliance, only the localhost may login. For the Database appliance, only the Hub may login.

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

1. On the Stratusphere Hub appliance:
 - a. Open a command line console to the appliance.
 - b. Log into the console using credentials provided for the `ssconsole` user (default password is `sspassword`).
 - c. In the main menu, select option E) Enable enhanced security option and hit enter.



```
Liquidware Stratusphere Hub Appliance Menu

N) Network Configuration
U) Update Software Menu
D) Database Utilities
M) Migrate certs, settings & data from remote appliance
R) Reboot Server
S) Shutdown Server
W) Restart Web Services
T) Change ROOT password
F) Change FRIEND password
C) Change SSSCONSOLE password

E) Enable enhanced security

Q) Quit

Your Choice? E
```

- d. The appliance will now enable many STIGs and is now in enhanced security configuration.
 - e. The appliance should reboot automatically after it finishes applying all the STIGs.
2. On the Stratusphere Database appliance:
 - a. Open a command line console to the appliance.

- b. Log into the console using credentials provided for the sconsole user (default password is sspassword).
- c. In the main menu, select option E) Enable enhanced security option and hit enter.

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

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

P) Restart PostgreSQL Server
S) Stop PostgreSQL Server
T) Change ROOT password
F) Change FRIEND password
C) Change SCONSOLE password
R) Reboot Server
O) Shutdown Server
E) Enable enhanced security

Q) Quit

Your Choice? E
```

- d. The appliance will now enable many STIGs and is now in enhanced security configuration.
 - e. The appliance should reboot automatically after it finishes applying all the STIGs.
3. On the Stratusphere Collector appliance:
- a. Open a command line console to the appliance.
 - b. Log into the console using credentials provided for the sconsole user (default password is sspassword).
 - c. In the main menu, select option E) Enable enhanced security option and hit enter.

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

N) Network Configuration
U) Update Software Menu
R) Reboot Server
S) Shutdown Server
W) Restart Web Services
T) Change ROOT password
F) Change FRIEND password
C) Change SCONSOLE password

E) Enable enhanced security

Q) Quit

Your Choice? E
```

- d. The appliance will now enable many STIGs and is now in enhanced security configuration.

- e. The appliance should reboot automatically after it finishes applying all the STIGs.

Enable CAC Authentication

Once **ENHANCED SECURITY** is enabled on the Stratusphere Hub and Database appliances, we 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.

1. Prior to enabling CAC Authentication, please ensure that the Stratusphere Hub is configured to sync with your test or production Active Directory which would have users with their security information available. Also, please make sure the role of the user is an Administrator if they need to access the Administration section of the Stratusphere Web UI.
2. **Please make sure you have enabled Enhanced Security on the Hub appliance prior to proceeding.**
3. Log out of all Stratusphere Web UI sessions.
4. **Liquidware recommends taking a snapshot of the Hub appliance for safety.**
5. On a computer that has access to the Internet, click on the following link to download the CAC Authentication module:

<http://download.liquidwarelabs.com/6.0.0/lwl-stig-base-dod-cac-1.0.0-68771.noarch.rpm>

6. Use WinSCP or FileZilla or similar software to upload this module 'lwl-stig-base-dod-cac-1.0.0-68771.noarch.rpm' file to your Stratusphere Hub. In WinSCP or FileZilla, use User ID: 'friend' and enter your enhanced security STIG compliant password within the program. Use the SCP protocol with WinSCP (Port 22). By default, the 'friend' user allows uploads to the /home/friend folder.
7. On the Stratusphere Hub appliance:
 - a. Open a command line console to the appliance.
 - b. Use User ID: 'friend' and enter your enhanced security STIG compliant password to log in.
 - c. Use the command 'su -' and enter your enhanced security STIG compliant password to switch to root.
 - d. Execute the following commands to install the CAC Authentication module:

```
> rpm -Uvh /home/friend/lwl-stig-base-dod-cac-1.0.0-68771.noarch.rpm
> reboot
```
8. Once Stratusphere Hub appliance reboots, please wait for about **10-15 minutes** for all the services on the Stratusphere Hub to start especially, the Web UI.
9. You will now need a valid CAC to authenticate with the Web UI through a browser.
10. 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 – it will either list an ID or an EMAIL certificate. Depending on the type of client certificate selected, here is what is expected:
 - a. If the user selects 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-login the user.
 - b. If the user selects an EMAIL type certificate, and that certificate is associated with a userPrincipalName attribute within a synced Active Directory, and that user has been granted a User or Administrative role within Stratusphere, they will be transparently logged into the Stratusphere Web UI.
11. A user should not be able to access the Stratusphere Web UI Login page without a supported client certificate. The browser should display a Bad SSL Client Authentication Certificate error.

CAC Certificate Revocation List Configuration

Once **ENHANCED SECURITY** is enabled, and **CAC AUTHENTICATION** is enabled on the Stratusphere Hub, the user can update and customize where the Hub looks for and downloads the Certificate Revocation List (CRL). The Hub is configured by default, to connect to a publicly available, DoD designated, URL and download the updated CRL, every day after 1:00am UTC on a scheduled basis. Liquidware has noticed that this publicly available URL may not always be reliable and thus provides instructions on replacing this URL with an internal URL that may be more reliable.

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

Here are instructions on how to update the URL to download the CRL:

1. On the Stratusphere Hub appliance:
 - a. Open a command line console to the appliance.
 - b. Use User ID: 'friend' and enter your enhanced security STIG compliant password to log in.
 - c. Use the command 'su -' and enter your enhanced security STIG compliant password to switch to root.
2. Use the vi command to edit the /etc/tntdb.conf file.

```
> vi /etc/tntdb.conf
```
3. Use the '/' key to type and search for **CRL_UPDATE_URLS**.
4. When found, go into insert or append mode by entering either 'i' or 'a' key.
5. Update the URL to your preferred, custom URL as needed.
6. Use the **ESCAPE** key and enter ':wq!' to write and quit.
7. Enter **CTRL+D** twice to log out of the console.
8. When the scheduled event triggers, the Hub will read this updated URL and download the CRL from this new location.

Here are instructions on how to update the schedule or frequency of downloading the CRL:

1. The schedule is stored in /etc/crontab on the Stratusphere Hub.
2. Only make changes to this cron job if you are aware of how cron works.
3. On the Stratusphere Hub appliance:
 - a. Open a command line console to the appliance.
 - b. Use User ID: 'friend' and enter your enhanced security STIG compliant password to log in.
 - c. Use the command 'su -' and 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. Use the '/' key to type and search for **update_crls.sh**
6. When found, go into insert or append mode by entering either 'i' or 'a' key.
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. Use the **ESCAPE** key and enter ':wq!' to write and quit.
9. Enter **CTRL+D** twice to log out of the console.
10. The Hub will then start triggering the download of the CRL based on this new frequency.

Enabling 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. It must be noted that once this privacy mode is enabled, **each existing and new registered user name and machine within the Stratusphere Database will be anonymized in a single one-way hash. The conversion is permanent and cannot be undone.** Privacy mode can be disabled; however, the user and machine names already anonymized stay anonymized permanently. Any user name and machine name registration received after disabling privacy mode will be stored in plain text and will not be hashed.

Using the privacy mode may make Stratusphere reporting harder to read and follow since instead of user names and machines names, the end user will only see randomized pieces of text representing users and machines.

Once Privacy mode is enabled the user and machine names already anonymized stay anonymized permanently even if Privacy mode is disabled at a later date.

Here are the instructions to enable Privacy mode:

1. Using an SSH client like PuTTY, log into the Stratusphere Hub console using credentials for the **friend** user. 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 'ssppassword'.
2. Execute the following command to invoke a limited shell prompt:
> /opt/tnt/bin/mgrconfig
3. 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
4. To save and quit enter the following commands:
> write
> quit
5. Enter **CTRL+D** twice to log out of root and friend SSH sessions and quit the SSH PuTTY client.

Please provide some time for Stratusphere to begin its anonymizing process. Once completed, please log into the Administration section of the Stratusphere Web UI and navigate to **Inventory > Machines** and **Inventory > Users** tabs to verify if the names have been anonymized.

Here are the instructions to disable Privacy mode:

1. Using an SSH client like PuTTY, log into the Stratusphere Hub console using credentials for the **friend** user. 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 'ssppassword'.
2. Execute the following command to invoke a limited shell prompt:

- ```
> /opt/tnt/bin/mgrconfig
```
3. On the new shell prompt, execute the following commands to anonymize user and/or machine names within the Stratusphere Database:

```
> set system user privacy off
> set system machine privacy off
```
  4. To save and quit enter the following commands:

```
> write
> quit
```
  5. Enter **CTRL+D** twice to log out of root and friend SSH sessions and quit the SSH PuTTY client.

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

## SSL / TLS Settings

The Stratusphere appliances are configured with 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 thus 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 none of the legacy browsers are in use and have all been phased out, these configuration settings can and should be hardened for a more secure posture. The configuration settings must be manually updated on the Hub and each Collector(s) appliance installed.

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

1. On the Stratusphere Hub and each Collector(s) appliance:
  - a. Open a command line console to the appliance.
  - b. Use User ID: 'friend' and enter your enhanced security STIG compliant password to log in.
  - c. Use the command 'su -' and enter your enhanced security STIG compliant password to switch to root.
2. Use the vi command to edit the /etc/lwl/httpd.conf file.

```
> vi /etc/lwl/httpd.conf
```
3. Use the '/' key to type and search for "SSLProtocol" – this is case sensitive.
4. When found, go into insert or append mode by entering either 'i' or 'a' key.
5. Update the default line
  - a. From "SSLProtocol All -SSLv2 -SSLv3"
  - b. To "SSLProtocol TLSv1.2"
  - c. This would 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:

```
≥ /etc/init.d/lwl-httpd restart
```
8. Enter **CTRL+D** twice to log out of the console.

## Install Connector ID Keys (desktop agents)

1. Download CID installer from the hub's web interface and install it on desktops / base image for VDI.
2. Check the ADMINISTRATION > INVENTORY MACHINES and make sure 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 URI located within `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              |
| postgres  | 26  | 26  | yes      | database admin          |
| root      | 0   | 0   | yes      | root account            |
| ssconsole | 501 | 502 | yes      | appliance configuration |

### Accounts without Login Privileges (internal system accounts)

These are setup to be no login accounts and required for services.

| 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      |                   |
| sync      | no       | (no password set) |
| tomcat    | yes      |                   |
| unbound   | yes      |                   |
| uucp      | yes      |                   |

|                  |     |  |
|------------------|-----|--|
| <b>vcsa</b>      | yes |  |
| <b>vsservice</b> | yes |  |

## Stratusphere Hub Appliance Installed Packages

- 1 tnt-common-java-deps-3.0.2-63697.noarch
- 2 vmware-tools-core-10.3.2-1.el6.x86\_64
- 3 lwl-module-station-dao-0.8-1.noarch
- 4 plymouth-scripts-0.8.3-29.el6.centos.x86\_64
- 5 vmware-tools-plugins-powerOps-10.3.2-1.el6.x86\_64
- 6 cjkuni-uming-fonts-0.2.20080216.1-36.el6.noarch
- 7 nss-3.36.0-9.el6\_10.x86\_64
- 8 lwl-collector-1.0.0-68397.noarch
- 9 selinux-policy-3.7.19-312.el6.noarch
- 10 libcap-2.16-5.5.el6.x86\_64
- 11 lwl-module-license-dao-0.18-1.noarch
- 12 expat-2.0.1-13.el6\_8.x86\_64
- 13 initscripts-9.03.61-1.el6.centos.x86\_64
- 14 gpg-pubkey-442df0f8-4783f24a
- 15 openldap-2.4.40-16.el6.x86\_64
- 16 tnt-db-imanager-3.3.4-69999.noarch
- 17 grep-2.20-6.el6.x86\_64
- 18 openscap-scanner-1.2.13-2.el6.x86\_64
- 19 rsyslog-5.8.10-12.el6.x86\_64
- 20 file-libs-5.04-30.el6.x86\_64
- 21 apr-util-ldap-1.3.9-3.el6\_0.1.x86\_64
- 22 irqbalance-1.0.7-9.el6.x86\_64
- 23 ed-1.1-3.3.el6.x86\_64
- 24 util-linux-ng-2.17.2-12.28.el6\_9.2.x86\_64
- 25 perl-Net-SSLeay-1.35-10.el6\_8.1.x86\_64
- 26 lwl-httpd-config-1.0.2-70886.noarch
- 27 lwl-module-urldetails-model-0.3-2.noarch
- 28 sqlite-3.6.20-1.el6\_7.2.x86\_64
- 29 python-pycurl-7.19.0-9.el6.x86\_64
- 30 lwl-snmp-1.2.3-52390.noarch
- 31 lwl-module-objectbase-0.17-1.noarch
- 32 python-iniparse-0.3.1-2.1.el6.noarch
- 33 aide-0.14-11.el6.x86\_64
- 34 newt-python-0.52.11-4.el6.x86\_64
- 35 lwl-module-groovy-2.4.6-2.noarch
- 36 tnt-identity-common-help-4.8.0-59049.noarch
- 37 perl-5.10.1-144.el6.x86\_64
- 38 selinux-policy-targeted-3.7.19-312.el6.noarch

39 perl-Mail-Sendmail-0.79-12.el6.noarch  
40 xfsprogs-3.1.1-20.el6.x86\_64  
41 perl-Compress-Raw-Zlib-2.021-144.el6.x86\_64  
42 parted-2.1-29.el6.x86\_64  
43 yum-plugin-fastestmirror-1.1.30-42.el6\_10.noarch  
44 lm\_sensors-libs-3.1.1-17.el6.x86\_64  
45 chkrootkit-0.49-9.el6.x86\_64  
46 munin-common-2.0.40-4.el6.noarch  
47 lwl-ssl-cert-1.0.0-67993.noarch  
48 perl-NetAddr-IP-4.027-7.el6.x86\_64  
49 lwl-hub-munin-postgresql-1.0.1-65347.noarch  
50 sharutils-4.7-6.1.el6.x86\_64  
51 wireless-tools-29-6.el6.x86\_64  
52 tnt-identity-common-java-3.3.6-71565.noarch  
53 perl-Class-Singleton-1.4-6.el6.noarch  
54 tnt-policy-common-2.7.1-71683.noarch  
55 perl-HTML-Parser-3.64-2.el6.x86\_64  
56 tnt-centos6-drivers-6.1.1-1.noarch  
57 perl-Net-SCP-Expect-0.16-1.el6.rf.noarch  
58 lzo-2.03-3.1.el6\_5.1.x86\_64  
59 lwl-stratusphere-web-2.0.5-71723.noarch  
60 openssh-clients-5.3p1-123.el6\_9.x86\_64  
61 perl-Log-Dispatch-2.27-1.el6.noarch  
62 gd-2.0.35-11.el6.x86\_64  
63 lwl-module-stratusphere-api-inventory-user-0.14-1.noarch  
64 shared-mime-info-0.70-6.el6.x86\_64  
65 pixman-0.32.8-1.el6.x86\_64  
66 yum-3.2.29-81.el6.centos.0.1.noarch  
67 vim-minimal-7.4.629-5.el6\_8.1.x86\_64  
68 lwl-module-stratusphere-inspection-login-session-summarize-0.6-1.noarch  
69 libacl-2.2.49-7.el6\_9.1.x86\_64  
70 lwl-module-gson-2.8.5-1.noarch  
71 m4-1.4.13-5.el6.x86\_64  
72 lwl-module-vms-metric-processor-raw-jdbc-0.28-1.noarch  
73 un-core-gungseo-fonts-1.0.2-0.15.080608.el6.noarch  
74 lwl-module-license-decoder-cert-0.1-1.noarch  
75 lwl-module-globalopts-dao-0.4-1.noarch  
76 liberation-sans-fonts-1.05.1.20090721-5.el6.noarch  
77 nspr-4.19.0-1.el6.x86\_64  
78 lwl-module-stratusphere-api-heartbeat-0.1-1.noarch  
79 dejavu-sans-mono-fonts-2.33-1.el6.noarch  
80 libnfnlink-1.0.0-1.el6.x86\_64

81 lwl-module-domain-dao-impl-jdbc-0.17-1.noarch  
82 cracklib-dicts-2.8.16-4.el6.x86\_64  
83 e2fsprogs-1.41.12-24.el6.x86\_64  
84 lwl-module-host-model-0.12-1.noarch  
85 redhat-logos-60.0.14-12.el6.centos.noarch  
86 un-core-fonts-common-1.0.2-0.15.080608.el6.noarch  
87 vmware-tools-plugins-deployPkg-10.3.2-1.el6.x86\_64  
88 dejavu-fonts-common-2.33-1.el6.noarch  
89 vmware-tools-vsock-common-10.3.2-5.el6.x86\_64  
90 lwl-module-session-dao-impl-jdbc-0.11-1.noarch  
91 samyak-fonts-common-1.2.1-9.el6.noarch  
92 java-1.8.0-openjdk-headless-1.8.0.191.b12-0.el6\_10.x86\_64  
93 xorg-x11-fonts-Type1-7.2-11.el6.noarch  
94 lwl-module-ldap-dao-impl-spring-0.2-1.noarch  
95 nss-softokn-freebl-3.14.3-23.3.el6\_8.x86\_64  
96 binutils-2.20.51.0.2-5.48.el6.x86\_64  
97 jpackage-utils-1.7.5-3.16.el6.noarch  
98 lwl-common-identity-osgi-modules-1.0.0-1.noarch  
99 popt-1.13-7.el6.x86\_64  
100 lwl-module-datastore-dao-impl-jdbc-0.24-1.noarch  
101 keyutils-libs-1.4-5.el6.x86\_64  
102 lwl-module-user-dao-0.22-1.noarch  
103 gawk-3.1.7-10.el6\_7.3.x86\_64  
104 gpg-pubkey-ef1d6db8-4e0fd7f0  
105 runit-2.1.1-69112.x86\_64  
106 chkconfig-1.3.49.5-1.el6.x86\_64  
107 libuuid-2.17.2-12.28.el6\_9.2.x86\_64  
108 kexec-tools-2.0.0-310.el6.x86\_64  
109 gpg-pubkey-6b8d79e6-3f49313d  
110 lwl-module-propholder-0.31-1.noarch  
111 libgcrypt-1.4.5-12.el6\_8.x86\_64  
112 yum-utils-1.1.30-42.el6\_10.noarch  
113 perl-DBD-Pg-2.15.1-4.el6\_3.x86\_64  
114 lwl-module-stratusphere-api-software-cid-0.26-1.noarch  
115 libudev-147-2.73.el6\_8.2.x86\_64  
116 openssl-perl-1.0.1e-57.el6.x86\_64  
117 libcap-ng-0.6.4-3.el6\_0.1.x86\_64  
118 lwl-console-2.0.0-70805.noarch  
119 python-2.6.6-66.el6\_8.x86\_64  
120 cpio-2.10-13.el6.x86\_64  
121 libxml2-python-2.7.6-21.el6\_8.1.x86\_64  
122 libnl-1.1.4-2.el6.x86\_64  
123 dbus-python-0.83.0-6.1.el6.x86\_64



124 checkpolicy-2.0.22-1.el6.x86\_64  
125 perl-Pod-Escapes-1.04-144.el6.x86\_64  
126 postgresql96-plperl-9.6.10-1PGDG.rhel6.x86\_64  
127 ConsoleKit-0.4.1-6.el6.x86\_64  
128 perl-Time-HiRes-1.9721-144.el6.x86\_64  
129 nss-tools-3.36.0-9.el6\_10.x86\_64  
130 perl-Net-SNMP-5.2.0-4.el6.noarch  
131 bridge-utils-1.2-10.el6.x86\_64  
132 libaio-0.3.107-10.el6.x86\_64  
133 p11-kit-trust-0.18.5-2.el6\_5.2.x86\_64  
134 mailx-12.4-10.el6\_10.x86\_64  
135 perl-HTML-Template-2.9-10.el6.noarch  
136 lwl-module-session-model-0.9-1.noarch  
137 perl-Cache-Cache-1.06-2.el6.noarch  
138 lwl-module-node-model-0.16-1.noarch  
139 cronie-anacron-1.4.4-16.el6\_8.2.x86\_64  
140 perl-IO-Socket-INET6-2.56-4.el6.noarch  
141 tnt-centos5-drivers-6.1.1-1.noarch  
142 net-snmp-5.5-60.el6.x86\_64  
143 device-mapper-1.02.117-12.el6\_9.1.x86\_64  
144 perl-XML-Simple-2.18-6.el6.noarch  
145 lwl-servicemix-base-6.1.4-7.noarch  
146 tnt-identity-imanager-backend-2.3.3-71723.noarch  
147 tcl-8.5.7-6.el6.x86\_64  
148 openssh-server-5.3p1-123.el6\_9.x86\_64  
149 perl-MIME-Types-1.28-2.el6.noarch  
lwl-module-stratusphere-inspection-data-processor-copy-0.177-  
150 1.noarch  
151 libXext-1.3.3-1.el6.x86\_64  
152 device-mapper-event-1.02.117-12.el6\_9.1.x86\_64  
153 xorg-x11-font-utils-7.2-11.el6.x86\_64  
154 kernel-2.6.32-696.30.1.el6.x86\_64  
155 lwl-module-node-group-dao-impl-jdbc-0.11-1.noarch  
156 grubby-7.0.15-7.el6.x86\_64  
157 tnt-setup-vmware-1.8.2-71700.noarch  
158 openscap-utils-1.2.13-2.el6.x86\_64  
159 libgcc-4.4.7-23.el6.x86\_64  
160 gpg-pubkey-baadae52-49beffa4  
161 rrdtool-perl-1.3.8-10.el6.x86\_64  
162 snappy-1.1.0-1.el6.x86\_64  
163 lwl-module-executorservice-0.55-1.noarch  
164 dash-0.5.5.1-4.el6.x86\_64  
165 pm-utils-1.2.5-11.el6.x86\_64

166 lwl-module-logrecord-model-0.4-1.noarch  
167 un-core-dinaru-fonts-1.0.2-0.15.080608.el6.noarch  
168 glibc-common-2.12-1.212.el6.x86\_64  
169 lwl-module-logrecord-dao-0.1-1.noarch  
170 ipa-pgothic-fonts-003.02-4.1.el6.noarch  
171 iptables-1.4.7-19.el6.x86\_64  
172 tnt-netaudit-1.8.0-56535.x86\_64  
173 groff-1.18.1.4-21.el6.x86\_64  
174 upstart-0.6.5-17.el6.x86\_64  
175 lwl-java-setup-1.6.0-68286.noarch  
176 coreutils-libs-8.4-47.el6.x86\_64  
177 lwl-module-atomikos-4.0.4-2.noarch  
178 fontpackages-filesystem-1.41-1.1.el6.noarch  
179 pciutils-3.1.10-4.el6.x86\_64  
180 vmware-tools-plugins-vix-10.3.2-1.el6.x86\_64  
181 lwl-module-host-dao-0.12-1.noarch  
182 vlgothic-fonts-common-20091202-2.el6.noarch  
183 vmware-tools-plugins-vmbackup-10.3.2-1.el6.x86\_64  
184 lwl-module-json-provider-0.9-2.noarch  
185 mailcap-2.1.31-2.el6.noarch  
186 vmware-tools-vgauth-10.3.2-1.el6.x86\_64  
187 lwl-module-user-group-dao-impl-jdbc-0.9-1.noarch  
188 basesystem-10.0-4.el6.noarch  
189 ca-certificates-2018.2.22-65.1.el6.noarch  
190 lwl-module-station-dao-impl-jdbc-0.13-1.noarch  
191 libX11-common-1.6.4-3.el6.noarch  
192 rpm-4.8.0-59.el6.x86\_64  
193 lwl-module-ldap-dao-0.3-1.noarch  
194 bash-4.1.2-48.el6.x86\_64  
195 json-c-0.11-13.el6.x86\_64  
196 info-4.13a-8.el6.x86\_64  
197 alsa-lib-1.1.0-4.el6.x86\_64  
198 libxml2-2.7.6-21.el6\_8.1.x86\_64  
199 lwl-module-user-model-0.9-1.noarch  
200 krb5-libs-1.10.3-65.el6.x86\_64  
201 gpg-pubkey-c105b9de-4e0fd3a3  
202 fipscheck-1.2.0-7.el6.x86\_64  
203 freetype-2.3.11-17.el6.x86\_64  
204 gpg-pubkey-0608b895-4bd22942  
205 curl-7.19.7-53.el6\_9.x86\_64  
206 libselinux-2.0.94-7.el6.x86\_64  
207 lwl-module-java-mail-1.4.5-1.noarch  
208 libuser-0.56.13-8.el6\_7.x86\_64

209 lwl-module-fam-0.30-1.noarch  
210 net-snmp-libs-5.5-60.el6.x86\_64  
211 elfutils-libelf-0.164-2.el6.x86\_64  
212 lwl-module-stratusphere-api-inventory-user-group-0.16-1.noarch  
213 xz-libs-4.999.9-0.5.beta.20091007git.el6.x86\_64  
214 lwl-module-stratusphere-api-update-0.28-1.noarch  
215 lwl-module-guava-20.0-1.noarch  
216 man-1.6f-39.el6.x86\_64  
217 bzip2-1.0.5-7.el6\_0.x86\_64  
218 lwl-module-database-dbinfoprovider-properties-0.9-1.noarch  
219 mysql-libs-5.1.73-8.el6\_8.x86\_64  
220 tcp\_wrappers-libs-7.6-58.el6.x86\_64  
221 lwl-module-unique-number-generator-impl-jdbc-0.15-1.noarch  
222 ethtool-3.5-6.el6.x86\_64  
223 libxslt-1.1.26-2.el6\_3.1.x86\_64  
224 lwl-module-urldetails-dao-impl-jdbc-0.7-1.noarch  
225 python-libs-2.6.6-66.el6\_8.x86\_64  
226 cyrus-sasl-lib-2.1.23-15.el6\_6.2.x86\_64  
227 tnt-postgresql-1.0.1-66090.noarch  
228 yum-metadata-parser-1.1.2-16.el6.x86\_64  
229 epel-release-6-8.noarch  
230 gdb-7.2-92.el6.x86\_64  
231 pkgconfig-0.23-9.1.el6.x86\_64  
232 xz-4.999.9-0.5.beta.20091007git.el6.x86\_64  
233 slang-2.2.1-1.el6.x86\_64  
234 ustr-1.0.4-9.1.el6.x86\_64  
235 tnt-libperlntnt-1.5.0-65269.noarch  
236 gdbm-1.8.0-39.el6.x86\_64  
237 hal-libs-0.5.14-14.el6.x86\_64  
238 perl-Module-Pluggable-3.90-144.el6.x86\_64  
239 MAKEDEV-3.24-6.el6.x86\_64  
240 perl-URI-1.40-2.el6.noarch  
241 fuse-2.8.3-5.el6.x86\_64  
242 libdrm-2.4.65-2.el6.x86\_64  
243 perl-Digest-HMAC-1.01-22.el6.noarch  
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270 vs-probe-6.1.1-1\_centos6\_2.6.32\_754.6.3.el6.x86\_64  
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573 lwl-module-database-copy-postgresql-0.15-1.noarch  
574 rootfiles-8.1-6.1.el6.noarch  
575 libtasn1-2.3-6.el6\_5.x86\_64  
576 tnt-setup-1.8.2-71700.noarch  
577 munin-apache-2.0.40-4.el6.noarch  
578 perl-File-Copy-Recursive-0.38-4.el6.noarch  
579 lwl-module-stratusphere-session-utils-0.43-1.noarch  
580 perl-String-CRC32-1.4-9.el6.x86\_64  
581 postfix-2.6.6-8.el6.x86\_64  
582 lwl-module-node-dao-0.31-1.noarch  
583 perl-IO-Multiplex-1.13-1.el6.rf.noarch  
584 cntlm-0.35.1-4.el6.x86\_64  
585 tnt-rhel4-drivers-6.1.1-1.noarch  
586 device-mapper-event-libs-1.02.117-12.el6\_9.1.x86\_64  
587 perl-Mail-Sender-0.8.16-3.el6.noarch  
588 zip-3.0-1.el6\_7.1.x86\_64  
589 lwl-keyring-1.0.8-71528.noarch  
590 perl-Email-Date-Format-1.002-5.el6.noarch  
591 libXrender-0.9.10-1.el6.x86\_64  
592 lwl-module-node-dao-impl-jdbc-0.60-1.noarch  
593 lvm2-libs-2.02.143-12.el6\_9.1.x86\_64  
594 elfutils-0.164-2.el6.x86\_64  
595 giflib-4.1.6-3.1.el6.x86\_64

596 lwl-config-utils-1.0.0-71707.noarch  
597 xdelta-1.1.4-8.el6.x86\_64  
598 rpmdevtools-7.5-2.el6.noarch  
599 lwl-module-vms-connector-vmware-0.110-1.noarch  
600 rrdtool-1.3.8-10.el6.x86\_64  
601 p7zip-9.20.1-2.el5.x86\_64  
602 lwl-module-vijava-6.0.05-1.noarch  
603 lwl-module-eventbus-0.21-1.noarch  
604 wqy-zenhei-fonts-0.9.45-3.el6.noarch  
605 hal-0.5.14-14.el6.x86\_64  
606 un-core-batang-fonts-1.0.2-0.15.080608.el6.noarch  
607 tzdata-2018e-3.el6.noarch  
608 lwl-module-logrecord-dao-impl-jdbc-0.19-1.noarch  
609 ipa-mincho-fonts-003.02-3.1.el6.noarch  
610 dbus-libs-1.2.24-9.el6.x86\_64  
611 less-436-13.el6.x86\_64  
612 libnih-1.0.1-8.el6.x86\_64  
613 coreutils-8.4-47.el6.x86\_64  
614 vmware-tools-guestlib-10.3.2-1.el6.x86\_64  
615 tnt-common-java-3.0.1-63697.noarch  
616 lwl-module-vms-dao-0.35-1.noarch  
617 liberation-fonts-common-1.05.1.20090721-5.el6.noarch  
618 vmware-tools-plugins-grabbitmqProxy-10.3.2-1.el6.x86\_64  
619 perl-Net-Server-2.007-2.el6.noarch  
620 lwl-module-tnt-identity-common-backend-1.1-0.noarch  
621 cjkuni-fonts-common-0.2.20080216.1-36.el6.noarch  
622 nss-sysinit-3.36.0-9.el6\_10.x86\_64  
623 lwl-module-vms-dao-impl-jdbc-0.37-1.noarch  
624 ncurses-base-5.7-4.20090207.el6.x86\_64  
625 lwl-hub-1.0.0-68108.noarch  
626 nscd-2.12-1.212.el6.x86\_64  
627 lwl-module-database-datasourceprovider-atomikos-0.10-1.noarch  
628 libattr-2.4.44-7.el6.x86\_64  
629 lwl-module-license-model-0.12-1.noarch  
630 bzip2-libs-1.0.5-7.el6\_0.x86\_64  
631 centos-release-6-10.el6.centos.12.3.x86\_64  
632 fipscheck-lib-1.2.0-7.el6.x86\_64  
633 gpg-pubkey-00f97f56-467e318a  
634 postgresql96-contrib-9.6.10-1PGDG.rhel6.x86\_64  
635 pcre-7.8-7.el6.x86\_64  
636 wget-1.12-10.el6.x86\_64  
637 lua-5.1.4-4.1.el6.x86\_64  
638 kmod-vmware-tools-vsock-9.8.1.0-2.6.32.71.el6.x86\_64.6.el6.x86\_64

639 libidn-1.18-2.el6.x86\_64  
640 libevent2-2.0.21-2.el6.x86\_64  
641 psmisc-22.6-24.el6.x86\_64  
642 python-urlgrabber-3.9.1-11.el6.noarch  
643 lwl-module-apache-common-lang-3.5-1.noarch  
644 xz-lzma-compat-4.999.9-0.5.beta.20091007git.el6.x86\_64  
645 authconfig-6.1.12-23.el6.x86\_64  
646 libfontenc-1.1.2-3.el6.x86\_64  
647 lwl-hub-config-1.0.2-71151.x86\_64  
648 screen-4.0.3-19.el6.x86\_64  
649 tnt-identity-common-web-1.8.2-65886.noarch  
650 perl-Pod-Simple-3.13-144.el6.x86\_64  
651 rpm-build-4.8.0-59.el6.x86\_64  
652 perl-List-MoreUtils-0.22-10.el6.x86\_64  
653 efibootmgr-0.5.4-15.el6.x86\_64  
654 perl-IO-Compress-Base-2.021-144.el6.x86\_64  
655 lwl-module-hardware-profile-converter-vmware-0.4-1.noarch  
656 hdparm-9.43-4.el6.x86\_64  
657 lwl-module-node-group-dao-0.6-1.noarch  
658 perl-Net-DNS-0.65-5.el6.x86\_64  
659 lwl-hub-munin-1.0.1-65347.noarch  
660 perl-CGI-3.51-144.el6.x86\_64  
661 tnt-identity-common-java-deps-3.3.1-71509.noarch  
662 python-iwlib-0.1-1.2.el6.x86\_64  
663 perl-Date-Manip-6.24-1.el6.noarch  
664 tnt-kernel-modules-1.15.0-71709\_2.6.32\_754.6.3.el6.x86\_64  
665 perl-HTML-Tagset-3.20-4.el6.noarch  
666 tnt-ubuntu10-drivers-6.1.1-1.noarch  
667 perl-Net-IPv6Addr-0.2-6.el6.noarch  
668 tnt-release-6.1.1-1\_201812102201.noarch  
669 libXau-1.0.6-4.el6.x86\_64  
670 perl-MIME-Lite-3.027-2.el6.noarch  
671 lwl-module-stratusphere-api-inventory-node-group-0.13-1.noarch  
672 tnt-ipset-6.11-71709.x86\_64  
673 cairo-1.8.8-6.el6\_6.x86\_64  
674 net-tools-1.60-114.el6.x86\_64  
675 patch-2.6-8.el6\_9.x86\_64  
676 lwl-module-stratusphere-api-auth-0.17-1.noarch  
677 lwl-module-vms-model-0.32-1.noarch  
678 kbd-misc-1.15-11.el6.noarch  
679 db4-utils-4.7.25-22.el6.x86\_64  
680 un-core-pilgi-fonts-1.0.2-0.15.080608.el6.noarch  
681 tzdata-java-2018e-3.el6.noarch

682 liberation-serif-fonts-1.05.1.20090721-5.el6.noarch  
683 postgresql96-libs-9.6.10-1PGDG.rhel6.x86\_64  
684 lwl-module-apache-common-codec-1.10-1.noarch  
685 libnetfilter\_conntrack-0.0.100-2.el6.x86\_64  
686 lwl-module-domain-dao-0.13-1.noarch  
687 cracklib-2.8.16-4.el6.x86\_64  
688 python-psycopg2-2.7.5-1.rhel6.x86\_64

## Stratusphere Database Appliance Installed Packages

1 filesystem-2.4.30-3.el6.x86\_64  
2 fontpackages-filesystem-1.41-1.1.el6.noarch  
3 perl-Net-SSLeay-1.35-10.el6\_8.1.x86\_64  
4 ncurses-base-5.7-4.20090207.el6.x86\_64  
5 plymouth-core-libs-0.8.3-29.el6.centos.x86\_64  
6 nss-softokn-freebl-3.14.3-23.3.el6\_8.x86\_64  
7 libattr-2.4.44-7.el6.x86\_64  
8 pygpgme-0.1-18.20090824bzc68.el6.x86\_64  
9 audit-libs-2.4.5-6.el6.x86\_64  
10 ntpdate-4.2.6p5-12.el6.centos.2.x86\_64  
11 db4-4.7.25-22.el6.x86\_64  
12 remi-release-6.5-1.el6.remi.noarch  
13 newt-0.52.11-4.el6.x86\_64  
14 libselinux-2.0.94-7.el6.x86\_64  
15 libsemanage-2.0.43-5.1.el6.x86\_64  
16 libutempter-1.1.5-4.1.el6.x86\_64  
17 libgcrypt-1.4.5-12.el6\_8.x86\_64  
18 ConsoleKit-libs-0.4.1-6.el6.x86\_64  
19 pcre-7.8-7.el6.x86\_64  
20 policycoreutils-2.0.83-30.1.el6\_8.x86\_64  
21 libudev-147-2.73.el6\_8.2.x86\_64  
22 iputils-20071127-24.el6.x86\_64  
23 freetype-2.3.11-17.el6.x86\_64  
24 udev-147-2.73.el6\_8.2.x86\_64  
25 sqlite-3.6.20-1.el6\_7.2.x86\_64  
26 which-2.19-6.el6.x86\_64  
27 parted-2.1-29.el6.x86\_64  
28 elfutils-libs-0.164-2.el6.x86\_64  
29 libusb-0.1.12-23.el6.x86\_64  
30 checkpolicy-2.0.22-1.el6.x86\_64  
31 epel-release-6-8.noarch  
32 perl-libs-5.10.1-144.el6.x86\_64

33 procps-3.2.8-45.el6\_9.3.x86\_64  
34 python-iwlib-0.1-1.2.el6.x86\_64  
35 perl-5.10.1-144.el6.x86\_64  
36 yum-utils-1.1.30-42.el6\_10.noarch  
37 cronie-anacron-1.4.4-16.el6\_8.2.x86\_64  
38 perl-Params-Validate-0.92-3.el6.x86\_64  
39 clamav-db-0.100.1-2.el6.x86\_64  
40 perl-Net-CIDR-0.18-1.el6.noarch  
41 glibc-common-2.12-1.212.el6.x86\_64  
42 perl-XML-NamespaceSupport-1.10-3.el6.noarch  
43 nss-util-3.36.0-1.el6.x86\_64  
44 pgpool-II-96-3.6.1-1.rhel6.x86\_64  
45 perl-Compress-Raw-Zlib-2.021-144.el6.x86\_64  
46 dbus-libs-1.2.24-9.el6.x86\_64  
47 lzo-2.03-3.1.el6\_5.1.x86\_64  
48 libaio-0.3.107-10.el6.x86\_64  
49 libnfnetwork-1.0.0-1.el6.x86\_64  
50 fakeroot-1.12.2-22.2.el6.x86\_64  
51 dmidecode-2.12-7.el6.x86\_64  
52 libnih-1.0.1-8.el6.x86\_64  
53 ldns-1.6.16-7.el6.2.x86\_64  
54 shared-mime-info-0.70-6.el6.x86\_64  
55 apr-util-ldap-1.3.9-3.el6\_0.1.x86\_64  
56 libXau-1.0.6-4.el6.x86\_64  
57 xdelta-1.1.4-8.el6.x86\_64  
58 python-psycopg2-2.7.5-1.rhel6.x86\_64  
59 cairo-1.8.8-6.el6\_6.x86\_64  
60 perl-Compress-Zlib-2.021-144.el6.x86\_64  
61 coreutils-8.4-47.el6.x86\_64  
62 rrdtool-perl-1.3.8-10.el6.x86\_64  
63 perl-Taint-Runtime-0.03-9.el6.x86\_64  
64 postgresql96-9.6.10-1PGDG.rhel6.x86\_64  
65 kbd-misc-1.15-11.el6.noarch  
66 perl-Carp-Always-0.09-2.el6.noarch  
67 vmware-tools-guestlib-10.3.2-1.el6.x86\_64  
68 perl-Error-0.17015-4.el6.noarch  
69 vmware-tools-plugins-grabbitmqProxy-10.3.2-1.el6.x86\_64  
70 perl-YAML-Syck-1.07-4.el6.x86\_64  
71 vmware-tools-plugins-deployPkg-10.3.2-1.el6.x86\_64  
72 pm-utils-1.2.5-11.el6.x86\_64  
73 perl-Socket6-0.23-4.el6.x86\_64  
74 mod\_fcgid-2.3.9-1.el6.x86\_64  
75 perl-Expect-1.21-3.el6.noarch

76 irqbalance-1.0.7-9.el6.x86\_64  
77 perl-Net-IPv6Addr-0.2-6.el6.noarch  
78 postgresql96-contrib-9.6.10-1PGDG.rhel6.x86\_64  
79 fuse-2.8.3-5.el6.x86\_64  
80 perl-HTML-Parser-3.64-2.el6.x86\_64  
81 rsyslog-5.8.10-12.el6.x86\_64  
82 perl-MIME-Types-1.28-2.el6.noarch  
83 kmod-vmware-tools-vmxnet-2.1.0.0-2.6.32.71.el6.x86\_64.6.el6.x86\_64  
84 perl-MIME-Lite-3.027-2.el6.noarch  
85 selinux-policy-3.7.19-312.el6.noarch  
86 vmware-tools-repo-RHEL6-10.0.9-1.el6.x86\_64  
87 elfutils-0.164-2.el6.x86\_64  
88 rpm-libs-4.8.0-59.el6.x86\_64  
89 pinentry-0.7.6-8.el6.x86\_64  
90 lsof-4.82-5.el6.x86\_64  
91 zip-3.0-1.el6\_7.1.x86\_64  
92 db4-utils-4.7.25-22.el6.x86\_64  
93 make-3.81-23.el6.x86\_64  
94 rpm-build-4.8.0-59.el6.x86\_64  
95 pgdg-centos96-9.6-3.noarch  
96 selinux-policy-targeted-3.7.19-312.el6.noarch  
97 device-mapper-event-libs-1.02.117-12.el6\_9.1.x86\_64  
98 groff-1.18.1.4-21.el6.x86\_64  
99 ca-certificates-2018.2.22-65.1.el6.noarch  
100 lvm2-libs-2.02.143-12.el6\_9.1.x86\_64  
101 cracklib-2.8.16-4.el6.x86\_64  
102 device-mapper-persistent-data-0.6.2-0.2.rc7.el6.x86\_64  
103 tnt-tools-1.5.5-71660.x86\_64  
104 libacl-2.2.49-7.el6\_9.1.x86\_64  
105 fontconfig-2.8.0-5.el6.x86\_64  
106 mailx-12.4-10.el6\_10.x86\_64  
107 redhat-logos-60.0.14-12.el6.centos.noarch  
108 device-mapper-multipath-libs-0.4.9-106.el6\_10.1.x86\_64  
109 perl-Net-Server-2.007-2.el6.noarch  
110 tnt-release-6.1.1-1\_201812102201.noarch  
111 openssh-clients-5.3p1-123.el6\_9.x86\_64  
112 lwl-db-server-1.0.3-2.noarch  
113 vs-pushuser-6.1.1-1.x86\_64  
114 pciutils-3.1.10-4.el6.x86\_64  
115 audit-2.4.5-6.el6.x86\_64  
116 krb5-libs-1.10.3-65.el6.x86\_64  
117 libssh2-1.4.2-2.el6\_7.1.x86\_64  
118 gpg-pubkey-ef1d6db8-4e0fd7f0



119 libuser-0.56.13-8.el6\_7.x86\_64  
120 gpg-pubkey-00f97f56-467e318a  
121 passwd-0.77-7.el6.x86\_64  
122 libuuid-2.17.2-12.28.el6\_9.2.x86\_64  
123 gpgme-1.1.8-3.el6.x86\_64  
124 busybox-1.15.1-21.el6\_6.x86\_64  
125 gpg-pubkey-6b8d79e6-3f49313d  
126 libX11-common-1.6.4-3.el6.noarch  
127 man-1.6f-39.el6.x86\_64  
128 dejavu-fonts-common-2.33-1.el6.noarch  
129 mysql-libs-5.1.73-8.el6\_8.x86\_64  
130 xml-common-0.6.3-33.el6.noarch  
131 libevent2-2.0.21-2.el6.x86\_64  
132 ethtool-3.5-6.el6.x86\_64  
133 libffi-3.0.5-3.2.el6.x86\_64  
134 python-libs-2.6.6-66.el6\_8.x86\_64  
135 bash-4.1.2-48.el6.x86\_64  
136 libblkid-2.17.2-12.28.el6\_9.2.x86\_64  
137 python-pycurl-7.19.0-9.el6.x86\_64  
138 libcap-2.16-5.5.el6.x86\_64  
139 yum-metadata-parser-1.1.2-16.el6.x86\_64  
140 info-4.13a-8.el6.x86\_64  
141 python-ethtool-0.6-6.el6.x86\_64  
142 popt-1.13-7.el6.x86\_64  
143 gdb-7.2-92.el6.x86\_64  
144 ntp-4.2.6p5-12.el6.centos.2.x86\_64  
145 python-iniparse-0.3.1-2.1.el6.noarch  
146 gawk-3.1.7-10.el6\_7.3.x86\_64  
147 libxml2-2.7.6-21.el6\_8.1.x86\_64  
148 slang-2.2.1-1.el6.x86\_64  
149 libsepol-2.0.41-4.el6.x86\_64  
150 newt-python-0.52.11-4.el6.x86\_64  
151 chkconfig-1.3.49.5-1.el6.x86\_64  
152 ustr-1.0.4-9.1.el6.x86\_64  
153 expat-2.0.1-13.el6\_8.x86\_64  
154 shadow-utils-4.1.5.1-5.el6.x86\_64  
155 tnt-libperlnt-1.5.0-65269.noarch  
156 elfutils-libelf-0.164-2.el6.x86\_64  
157 sysstat-9.0.4-33el6\_9.1.x86\_64  
158 hal-libs-0.5.14-14.el6.x86\_64  
159 xz-libs-4.999.9-0.5.beta.20091007git.el6.x86\_64  
160 polkit-0.96-11.el6.x86\_64  
161 grep-2.20-6.el6.x86\_64

162 MAKEDEV-3.24-6.el6.x86\_64  
163 file-libs-5.04-30.el6.x86\_64  
164 lua-5.1.4-4.1.el6.x86\_64  
165 libdrm-2.4.65-2.el6.x86\_64  
166 libidn-1.18-2.el6.x86\_64  
167 plymouth-0.8.3-29.el6.centos.x86\_64  
168 libcap-ng-0.6.4-3.el6\_0.1.x86\_64  
169 libxslt-1.1.26-2.el6\_3.1.x86\_64  
170 nss-softokn-3.14.3-23.3.el6\_8.x86\_64  
171 cpio-2.10-13.el6.x86\_64  
172 diffutils-2.8.1-28.el6.x86\_64  
173 libnl-1.1.4-2.el6.x86\_64  
174 xz-4.999.9-0.5.beta.20091007git.el6.x86\_64  
175 psmisc-22.6-24.el6.x86\_64  
176 chkrootkit-0.49-9.el6.x86\_64  
177 libpng-1.2.49-2.el6\_7.x86\_64  
178 kernel-2.6.32-696.30.1.el6.x86\_64  
179 libedit-2.11-4.20080712cvs.1.el6.x86\_64  
180 cryptsetup-luks-1.2.0-11.el6.x86\_64  
181 perl-Pod-Escapes-1.04-144.el6.x86\_64  
182 patch-2.6-8.el6\_9.x86\_64  
183 mdadm-3.3.4-8.el6.x86\_64  
184 perl-version-0.77-144.el6.x86\_64  
185 wireless-tools-29-6.el6.x86\_64  
186 perl-Pod-Simple-3.13-144.el6.x86\_64  
187 libgcc-4.4.7-23.el6.x86\_64  
188 system-config-network-tui-1.6.0.el6.3-4.el6.noarch  
189 perl-DBI-1.609-4.el6.x86\_64  
190 centos-release-6-10.el6.centos.12.3.x86\_64  
191 postfix-2.6.6-8.el6.x86\_64  
192 perl-Time-HiRes-1.9721-144.el6.x86\_64  
193 perl-Net-IP-1.25-13.el6.noarch  
194 cronie-1.4.4-16.el6\_8.2.x86\_64  
195 perl-Digest-SHA1-2.12-2.el6.x86\_64  
196 scap-security-guide-0.1.28-4.el6.noarch  
197 perl-Mail-Sendmail-0.79-12.el6.noarch  
198 perl-Crypt-DES-2.05-9.el6.x86\_64  
199 perl-List-MoreUtils-0.22-10.el6.x86\_64  
200 perl-XML-LibXML-1.70-5.el6.x86\_64  
201 libmemcached-0.31-1.1.el6.x86\_64  
202 perl-IO-Compress-Base-2.021-144.el6.x86\_64  
203 tcl-8.5.7-6.el6.x86\_64  
204 pth-2.0.7-9.3.el6.x86\_64

205 numactl-2.0.9-2.el6.x86\_64  
206 sysvinit-tools-2.87-6.dsf.el6.x86\_64  
207 libevent-1.4.13-4.el6.x86\_64  
208 libtasn1-2.3-6.el6\_5.x86\_64  
209 fakeroot-libs-1.12.2-22.2.el6.x86\_64  
210 pkgconfig-0.23-9.1.el6.x86\_64  
211 rpmdevtools-7.5-2.el6.noarch  
212 hdparm-9.43-4.el6.x86\_64  
213 libpcap-1.4.0-4.20130826git2dbcaa1.el6.x86\_64  
214 dbus-glib-0.86-6.el6.x86\_64  
215 libthai-0.1.12-3.el6.x86\_64  
216 grubby-7.0.15-7.el6.x86\_64  
217 libxcb-1.12-4.el6.x86\_64  
218 p11-kit-trust-0.18.5-2.el6\_5.2.x86\_64  
219 libXrender-0.9.10-1.el6.x86\_64  
220 perl-IO-Compress-Zlib-2.021-144.el6.x86\_64  
221 libXft-2.3.2-1.el6.x86\_64  
222 perl-Net-DNS-0.65-5.el6.x86\_64  
223 rrdtool-1.3.8-10.el6.x86\_64  
224 perl-Convert-UU-0.5201-1.el6.rf.noarch  
225 perl-Log-Log4perl-1.30-1.el6.noarch  
226 perl-HTML-Template-2.9-10.el6.noarch  
227 perl-FCGI-0.71-4.el6.x86\_64  
228 perl-CGI-3.51-144.el6.x86\_64  
229 perl-IPC-ShareLite-0.17-1.el6.rf.x86\_64  
230 perl-Cache-Cache-1.06-2.el6.noarch  
231 perl-Cache-Memcached-1.28-2.el6.noarch  
232 perl-Date-Manip-6.24-1.el6.noarch  
233 perl-DateTime-0.5300-3.el6.x86\_64  
234 perl-IO-Socket-INET6-2.56-4.el6.noarch  
235 perl-IO-Tty-1.08-4.el6.x86\_64  
236 perl-Mail-Sender-0.8.16-3.el6.noarch  
237 perl-Math-Base85-0.2-6.el6.noarch  
238 perl-Net-SCP-Expect-0.16-1.el6.rf.noarch  
239 perl-HTML-Tagset-3.20-4.el6.noarch  
240 perl-libwww-perl-5.833-5.el6.noarch  
241 perl-XML-DOM-1.44-7.el6.noarch  
242 perl-Email-Date-Format-1.002-5.el6.noarch  
243 perl-MailTools-2.04-4.el6.noarch  
244 perl-Log-Dispatch-2.27-1.el6.noarch  
245 tmpwatch-2.9.16-6.el6.x86\_64  
246 iw-4.1-1.el6.x86\_64  
247 snappy-1.1.0-1.el6.x86\_64

248 net-tools-1.60-114.el6.x86\_64  
249 tar-1.23-15.el6\_8.x86\_64  
250 bc-1.06.95-1.el6.x86\_64  
251 m4-1.4.13-5.el6.x86\_64  
252 squashfs-tools-4.0-5.el6.x86\_64  
253 dejavu-sans-mono-fonts-2.33-1.el6.noarch  
254 ncurses-5.7-4.20090207.el6.x86\_64  
255 less-436-13.el6.x86\_64  
256 gzip-1.3.12-24.el6.x86\_64  
257 cracklib-dicts-2.8.16-4.el6.x86\_64  
258 pam-1.1.1-24.el6.x86\_64  
259 tnt-setup-1.8.2-71700.noarch  
260 munin-common-2.0.40-4.el6.noarch  
261 lwl-config-utils-1.0.0-71707.noarch  
262 munin-apache-2.0.40-4.el6.noarch  
263 dhcp-common-4.1.1-63.P1.el6.centos.x86\_64  
264 logrotate-3.7.8-28.el6.x86\_64  
265 elrepo-release-6-8.el6.elrepo.noarch  
266 lwl-keyring-1.0.8-71528.noarch  
267 kpartx-0.4.9-106.el6\_10.1.x86\_64  
268 lwl-db-config-1.0.5-3.noarch  
269 device-mapper-multipath-0.4.9-106.el6\_10.1.x86\_64  
270 lwl-munin-1.0.0-71435.noarch  
271 libpciaccess-0.13.4-1.el6.x86\_64  
272 tnt-setup-vmware-1.8.2-71700.noarch  
273 gpg-pubkey-baadae52-49beffa4  
274 redhat-rpm-config-9.0.3-51.el6.centos.noarch  
275 keyutils-libs-1.4-5.el6.x86\_64  
276 openssl-1.0.1e-57.el6.x86\_64  
277 fipscheck-1.2.0-7.el6.x86\_64  
278 libcurl-7.19.7-53.el6\_9.x86\_64  
279 curl-7.19.7-53.el6\_9.x86\_64  
280 gpg-pubkey-c105b9de-4e0fd3a3  
281 openldap-2.4.40-16.el6.x86\_64  
282 gpg-pubkey-fe837f6f-4e0fd77e  
283 perl-DBD-Pg-2.15.1-4.el6\_3.x86\_64  
284 gpg-pubkey-0608b895-4bd22942  
285 sudo-1.8.6p3-29.el6\_9.x86\_64  
286 gpg-pubkey-442df0f8-4783f24a  
287 openscap-scanner-1.2.13-2.el6.x86\_64  
288 glibc-2.12-1.212.el6.x86\_64  
289 nspr-4.19.0-1.el6.x86\_64  
290 postgresql96-libs-9.6.10-1PGDG.rhel6.x86\_64

291 libcom\_err-1.41.12-24.el6.x86\_64  
292 apr-util-1.3.9-3.el6\_0.1.x86\_64  
293 gdisk-0.8.10-1.el6.x86\_64  
294 glib2-2.28.8-10.el6.x86\_64  
295 iptables-1.4.7-19.el6.x86\_64  
296 libnetfilter\_conntrack-0.0.100-2.el6.x86\_64  
297 upstart-0.6.5-17.el6.x86\_64  
298 httpd-tools-2.2.15-69.el6.centos.x86\_64  
299 libss-1.41.12-24.el6.x86\_64  
300 e2fsprogs-1.41.12-24.el6.x86\_64  
301 coreutils-libs-8.4-47.el6.x86\_64  
302 vmware-tools-foundation-10.3.2-1.el6.x86\_64  
303 vmware-tools-libraries-nox-10.3.2-1.el6.x86\_64  
304 postgresql96-server-9.6.10-1PGDG.rhel6.x86\_64  
305 kbd-1.15-11.el6.x86\_64  
306 httpd-2.2.15-69.el6.centos.x86\_64  
307 vmware-tools-core-10.3.2-1.el6.x86\_64  
308 vmware-tools-plugins-guestInfo-10.3.2-1.el6.x86\_64  
309 vmware-tools-plugins-powerOps-10.3.2-1.el6.x86\_64  
310 vmware-tools-plugins-timeSync-10.3.2-1.el6.x86\_64  
311 hal-0.5.14-14.el6.x86\_64  
312 vmware-tools-plugins-vmbackup-10.3.2-1.el6.x86\_64  
313 tnt-base-4.0.1-62018.noarch  
314 vmware-tools-vgauth-10.3.2-1.el6.x86\_64  
315 kexec-tools-2.0.0-310.el6.x86\_64  
316 kernel-2.6.32-754.6.3.el6.x86\_64  
317 pg\_partman96-3.2.0-1.rhel6.x86\_64  
318 lwl-hub-munin-postgresql-1.0.1-65347.noarch  
319 postgresql96-plperl-9.6.10-1PGDG.rhel6.x86\_64  
320 conntrack-tools-0.9.13-3.el6.x86\_64  
321 at-3.1.10-49.el6.x86\_64  
322 system-config-firewall-base-1.2.27-7.2.el6\_6.noarch  
323 vmware-tools-vmci-common-10.3.2-5.el6.x86\_64  
324 vmware-tools-vmxnet-common-10.3.2-5.el6.x86\_64  
325 grub-0.97-99.el6.x86\_64  
326 vmware-tools-vsock-common-10.3.2-5.el6.x86\_64  
327 efibootmgr-0.5.4-15.el6.x86\_64  
328 vmware-tools-esx-kmods-10.3.2-1.el6.x86\_64  
329 attr-2.4.44-7.el6.x86\_64  
330 nss-3.36.0-9.el6\_10.x86\_64  
331 bridge-utils-1.2-10.el6.x86\_64  
332 rpm-4.8.0-59.el6.x86\_64  
333 gpg-pubkey-9def3191-461fe38c

334 binutils-2.20.51.0.2-5.48.el6.x86\_64  
335 lwl-ssl-cert-1.0.0-67993.noarch  
336 clamav-0.100.1-2.el6.x86\_64  
337 lwl-console-2.0.0-70805.noarch  
338 nss-tools-3.36.0-9.el6\_10.x86\_64  
339 device-mapper-1.02.117-12.el6\_9.1.x86\_64  
340 device-mapper-event-1.02.117-12.el6\_9.1.x86\_64  
341 iptables-ipv6-1.4.7-19.el6.x86\_64  
342 gnupg2-2.0.14-9.el6\_10.x86\_64  
343 hmaccalc-0.9.12-2.el6.x86\_64  
344 yum-plugin-fastestmirror-1.1.30-42.el6\_10.noarch  
345 unbound-libs-1.4.20-23.el6\_9.4.x86\_64  
346 openssh-server-5.3p1-123.el6\_9.x86\_64  
347 pg\_jobmon96-1.3.3-1.rhel6.noarch  
348 lvm2-2.02.143-12.el6\_9.1.x86\_64  
349 setup-2.8.14-23.el6.noarch  
350 rpmforge-release-0.5.3-1.el6.rf.x86\_64  
351 basesystem-10.0-4.el6.noarch  
352 mailcap-2.1.31-2.el6.noarch  
353 wget-1.12-10.el6.x86\_64  
354 python-2.6.6-66.el6\_8.x86\_64  
355 ncurses-libs-5.7-4.20090207.el6.x86\_64  
356 util-linux-ng-2.17.2-12.28.el6\_9.2.x86\_64  
357 python-urlgrabber-3.9.1-11.el6.noarch  
358 zlib-1.2.3-29.el6.x86\_64  
359 libxml2-python-2.7.6-21.el6\_8.1.x86\_64  
360 bzip2-libs-1.0.5-7.el6\_0.x86\_64  
361 readline-6.0-4.el6.x86\_64  
362 dbus-python-0.83.0-6.1.el6.x86\_64  
363 authconfig-6.1.12-23.el6.x86\_64  
364 sed-4.2.1-10.el6.x86\_64  
365 libgpg-error-1.7-4.el6.x86\_64  
366 screen-4.0.3-19.el6.x86\_64  
367 ConsoleKit-0.4.1-6.el6.x86\_64  
368 findutils-4.4.2-9.el6.x86\_64  
369 bzip2-1.0.5-7.el6\_0.x86\_64  
370 file-5.04-30.el6.x86\_64  
371 cyrus-sasl-lib-2.1.23-15.el6\_6.2.x86\_64  
372 pg\_top96-3.7.0-5.rhel6.x86\_64  
373 pciutils-libs-3.1.10-4.el6.x86\_64  
374 xz-lzma-compat-4.999.9-0.5.beta.20091007git.el6.x86\_64  
375 usermode-1.102-3.el6.x86\_64  
376 libselinux-utils-2.0.94-7.el6.x86\_64

377 pgtune-0.9.3-4.el5.noarch  
378 ed-1.1-3.3.el6.x86\_64  
379 cryptsetup-luks-libs-1.2.0-11.el6.x86\_64  
380 gdbm-1.8.0-39.el6.x86\_64  
381 crda-3.13\_2015.10.22-3.el6.x86\_64  
382 perl-Module-Pluggable-3.90-144.el6.x86\_64  
383 cyrus-sasl-2.1.23-15.el6\_6.2.x86\_64  
384 perl-URI-1.40-2.el6.noarch  
385 kernel-firmware-2.6.32-754.6.3.el6.noarch  
386 crontabs-1.10-33.el6.noarch  
387 perl-Digest-HMAC-1.01-22.el6.noarch  
388 tzdata-2018e-3.el6.noarch  
389 cntlm-0.35.1-4.el6.x86\_64  
390 perl-Net-SNMP-5.2.0-4.el6.noarch  
391 libstdc++-4.4.7-23.el6.x86\_64  
392 perl-XML-SAX-0.96-7.el6.noarch  
393 apr-1.3.9-5.el6\_9.1.x86\_64  
394 expect-5.44.1.15-5.el6\_4.x86\_64  
395 tcp\_wrappers-libs-7.6-58.el6.x86\_64  
396 pixman-0.32.8-1.el6.x86\_64  
397 p11-kit-0.18.5-2.el6\_5.2.x86\_64  
398 iproute-2.6.32-57.el6.x86\_64  
399 openscap-utils-1.2.13-2.el6.x86\_64  
400 gamin-0.1.10-9.el6.x86\_64  
401 dbus-1.2.24-9.el6.x86\_64  
402 eggdbus-0.6-3.el6.x86\_64  
403 e2fsprogs-libs-1.41.12-24.el6.x86\_64  
404 libX11-1.6.4-3.el6.x86\_64  
405 gmp-4.3.1-13.el6.x86\_64  
406 pango-1.28.1-11.el6.x86\_64  
407 perl-NetAddr-IP-4.027-7.el6.x86\_64  
408 initscripts-9.03.61-1.el6.centos.x86\_64  
409 perl-File-Copy-Recursive-0.38-4.el6.noarch  
410 dracut-004-411.el6.noarch  
411 sharutils-4.7-6.1.el6.x86\_64  
412 vmware-tools-services-10.3.2-1.el6.x86\_64  
413 perl-String-CRC32-1.4-9.el6.x86\_64  
414 vmware-tools-plugins-hgfsServer-10.3.2-1.el6.x86\_64  
415 hal-info-20090716-5.el6.noarch  
416 perl-Class-Singleton-1.4-6.el6.noarch  
417 vmware-tools-plugins-vix-10.3.2-1.el6.x86\_64  
418 perl-IO-Multiplex-1.13-1.el6.rf.noarch  
419 dracut-kernel-004-411.el6.noarch

420 perl-Net-IPv4Addr-0.10-6.el6.noarch  
421 perl-XML-RegExp-0.03-7.el6.noarch  
422 perl-XML-Parser-2.36-7.el6.x86\_64  
423 kmod-vmware-tools-vmci-9.8.2.0-2.6.32.71.el6.x86\_64.6.el6.x86\_64  
424 perl-TimeDate-1.16-13.el6.noarch  
425 kmod-vmware-tools-vssock-9.8.1.0-2.6.32.71.el6.x86\_64.6.el6.x86\_64  
426 xfsprogs-3.1.1-20.el6.x86\_64  
427 perl-Log-Dispatch-FileRotate-1.19-4.el6.noarch  
428 nss-sysinit-3.36.0-9.el6\_10.x86\_64  
429 rootfiles-8.1-6.1.el6.noarch  
430 aide-0.14-11.el6.x86\_64  
431 dracut-fips-004-411.el6.noarch  
432 vim-minimal-7.4.629-5.el6\_8.1.x86\_64  
433 nscd-2.12-1.212.el6.x86\_64  
434 json-c-0.11-13.el6.x86\_64  
435 unzip-6.0-5.el6.x86\_64  
436 dash-0.5.5.1-4.el6.x86\_64  
437 rpm-python-4.8.0-59.el6.x86\_64  
438 device-mapper-libs-1.02.117-12.el6\_9.1.x86\_64  
439 dejavu-lgc-sans-mono-fonts-2.33-1.el6.noarch  
440 vmware-tools-esx-nox-10.3.2-1.el6.x86\_64  
441 hwdata-0.233-20.1.el6.noarch  
442 module-init-tools-3.9-26.el6.x86\_64  
443 munin-node-2.0.40-4.el6.noarch  
444 munin-2.0.40-4.el6.noarch  
445 plymouth-scripts-0.8.3-29.el6.centos.x86\_64  
446 lwl-db-setup-1.0.0-71724.noarch  
447 openssh-5.3p1-123.el6\_9.x86\_64  
448 vs-helper-6.1.1-1.x86\_64  
449 dhclient-4.1.1-63.P1.el6.centos.x86\_64  
450 libreswan-3.15-7.5.el6\_9.x86\_64  
451 yum-3.2.29-81.el6.centos.0.1.noarch  
452 mingetty-1.08-5.el6.x86\_64  
453 acl-2.2.49-7.el6\_9.1.x86\_64  
454 fipscheck-lib-1.2.0-7.el6.x86\_64  
455 gpg-pubkey-d0ff3d16-4e0fd442  
456 gpg-pubkey-c432455b-4f35848d  
457 openscap-1.2.13-2.el6.x86\_64

## Stratusphere Collector Appliance Installed Packages

1 openscap-1.2.13-2.el6.x86\_64



2 apr-1.3.9-5.el6\_9.1.x86\_64  
3 net-snmp-utils-5.5-60.el6.x86\_64  
4 mailcap-2.1.31-2.el6.noarch  
5 lwl-module-apache-common-http-client-4.5.3-1.noarch  
6 apr-util-ldap-1.3.9-3.el6\_0.1.x86\_64  
7 xml-common-0.6.3-33.el6.noarch  
8 man-1.6f-39.el6.x86\_64  
9 mysql-libs-5.1.73-8.el6\_8.x86\_64  
10 ncurses-libs-5.7-4.20090207.el6.x86\_64  
11 ethtool-3.5-6.el6.x86\_64  
12 zlib-1.2.3-29.el6.x86\_64  
13 python-libs-2.6.6-66.el6\_8.x86\_64  
14 audit-libs-2.4.5-6.el6.x86\_64  
15 yum-metadata-parser-1.1.2-16.el6.x86\_64  
16 device-mapper-event-libs-1.02.117-12.el6\_9.1.x86\_64  
17 gdb-7.2-92.el6.x86\_64  
18 openssh-5.3p1-123.el6\_9.x86\_64  
19 libselinux-2.0.94-7.el6.x86\_64  
20 slang-2.2.1-1.el6.x86\_64  
21 pcre-7.8-7.el6.x86\_64  
22 lwl-module-postgresql-jdbc-42.2-2.noarch  
23 ustr-1.0.4-9.1.el6.x86\_64  
24 elfutils-libelf-0.164-2.el6.x86\_64  
25 centos-release-6-10.el6.centos.12.3.x86\_64  
26 tnt-libperlntnt-1.5.0-65269.noarch  
27 xz-libs-4.999.9-0.5.beta.20091007git.el6.x86\_64  
28 ConsoleKit-libs-0.4.1-6.el6.x86\_64  
29 freetype-2.3.11-17.el6.x86\_64  
30 tzdata-java-2018e-3.el6.noarch  
31 policycoreutils-2.0.83-30.1.el6\_8.x86\_64  
32 bzip2-1.0.5-7.el6\_0.x86\_64  
33 glibc-common-2.12-1.212.el6.x86\_64  
34 iputils-20071127-24.el6.x86\_64  
35 file-5.04-30.el6.x86\_64  
36 libcom\_err-1.41.12-24.el6.x86\_64  
37 libacl-2.2.49-7.el6\_9.1.x86\_64  
38 udev-147-2.73.el6\_8.2.x86\_64  
39 cpio-2.10-13.el6.x86\_64  
40 glib2-2.28.8-10.el6.x86\_64  
41 epel-release-6-8.noarch  
42 libnetfilter\_conntrack-0.0.100-2.el6.x86\_64  
43 libthai-0.1.12-3.el6.x86\_64  
44 parted-2.1-29.el6.x86\_64

45 pkgconfig-0.23-9.1.el6.x86\_64  
46 python-psycopg2-2.7.5-1.rhel6.x86\_64  
47 tnt-decode-1.0.0-68385.x86\_64  
48 usermode-1.102-3.el6.x86\_64  
49 xz-lzma-compat-4.999.9-0.5.beta.20091007git.el6.x86\_64  
50 gmp-4.3.1-13.el6.x86\_64  
51 libXft-2.3.2-1.el6.x86\_64  
52 libselinux-utils-2.0.94-7.el6.x86\_64  
53 initscripts-9.03.61-1.el6.centos.x86\_64  
54 cryptsetup-luks-1.2.0-11.el6.x86\_64  
55 libusb-0.1.12-23.el6.x86\_64  
56 crda-3.13\_2015.10.22-3.el6.x86\_64  
57 lwl-module-apache-common-collections-4.1-2.noarch  
58 vmware-tools-services-10.3.2-1.el6.x86\_64  
59 lwl-module-common-rest-api-0.49-1.noarch  
60 cyrus-sasl-2.1.23-15.el6\_6.2.x86\_64  
61 perl-Pod-Escapes-1.04-144.el6.x86\_64  
62 vmware-tools-plugins-hgfsServer-10.3.2-1.el6.x86\_64  
63 crontabs-1.10-33.el6.noarch  
64 perl-Pod-Simple-3.13-144.el6.x86\_64  
65 vmware-tools-plugins-vix-10.3.2-1.el6.x86\_64  
66 lwl-module-database-datasourceprovider-postgresql-0.11-1.noarch  
67 net-snmp-5.5-60.el6.x86\_64  
68 perl-List-MoreUtils-0.22-10.el6.x86\_64  
69 kernel-2.6.32-754.6.3.el6.x86\_64  
70 lwl-java-setup-1.6.0-68286.noarch  
71 perl-XML-NamespaceSupport-1.10-3.el6.noarch  
72 postgresql96-server-9.6.10-1PGDG.rhel6.x86\_64  
73 fontpackages-filesystem-1.41-1.1.el6.noarch  
74 perl-Compress-Raw-Zlib-2.021-144.el6.x86\_64  
75 at-3.1.10-49.el6.x86\_64  
76 rrdtool-1.3.8-10.el6.x86\_64  
77 tcl-8.5.7-6.el6.x86\_64  
78 libtasn1-2.3-6.el6\_5.x86\_64  
79 kmod-vmware-tools-vmxnet-2.1.0.0-2.6.32.71.el6.x86\_64.6.el6.x86\_64  
80 libevent-1.4.13-4.el6.x86\_64  
81 libjpeg-turbo-1.2.1-3.el6\_5.x86\_64  
82 ca-certificates-2018.2.22-65.1.el6.noarch  
83 perl-TimeDate-1.16-13.el6.noarch  
84 openscap-utils-1.2.13-2.el6.x86\_64  
85 p11-kit-trust-0.18.5-2.el6\_5.2.x86\_64  
86 rpm-4.8.0-59.el6.x86\_64  
87 perl-Log-Dispatch-2.27-1.el6.noarch

88 perl-Net-DNS-0.65-5.el6.x86\_64  
89 java-1.8.0-openjdk-headless-1.8.0.191.b12-0.el6\_10.x86\_64  
90 perl-Error-0.17015-4.el6.noarch  
91 libXext-1.3.3-1.el6.x86\_64  
92 perl-Net-CIDR-0.18-1.el6.noarch  
93 nscd-2.12-1.212.el6.x86\_64  
94 libXrender-0.9.10-1.el6.x86\_64  
95 perl-Params-Validate-0.92-3.el6.x86\_64  
96 kbd-misc-1.15-11.el6.noarch  
97 perl-Net-SNMP-5.2.0-4.el6.noarch  
98 json-c-0.11-13.el6.x86\_64  
99 perl-HTML-Tagset-3.20-4.el6.noarch  
100 perl-XML-Simple-2.18-6.el6.noarch  
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