

# Tenable License Activation and Plugin Updates in an Air-Gapped Environment

**For SecurityCenter, Nessus, PVS, & LCE**

June 22, 2016

(Revision 1)



# Table of Contents

Introduction .....	3
Software Version and OS.....	3
Prerequisites - Licenses and Activation Codes.....	3
SecurityCenter .....	3
SecurityCenter on Tenable Appliance .....	3
Set up SecurityCenter and upload license key file .....	3
Perform offline registration and download for Active Scan Plugins and Feeds .....	5
Update Feeds and Plugins on SecurityCenter .....	7
SecurityCenter on Red Hat and CentOS Platforms.....	8
Set up SecurityCenter and upload license key file .....	8
Perform offline registration and download for Active Scan Plugins and Feeds .....	9
Update Feeds and Plugins on SecurityCenter .....	10
Nessus .....	11
Passive Vulnerability Scanner .....	11
Perform offline registration and download Passive Plugins.....	12
Update Passive Plugins on SecurityCenter.....	13
Log Correlation Engine .....	14
Perform offline registration, download LCE Plugins, and upload LCE Plugins to LCE Server .....	14
Update LCE Plugins on SecurityCenter .....	15
About Tenable Network Security .....	16

---

## Introduction

This document is designed to assist deployment engineers to activate and perform offline plugin updates for Tenable SecurityCenter and SecurityCenter Continuous View™ (SecurityCenter CV™) components in an air-gapped environment.

This document covers:

- SecurityCenter
- SecurityCenter Continuous View (CV)
- Nessus
- Passive Vulnerability Scanner (PVS)
- Log Correlation Engine (LCE)

## Software Version and OS

Component	Version	OS
SecurityCenter	5.3.1	Tenable Appliance 4.1/Linux
Nessus	6.5.6	Any supported OS
PVS	5.0	Any Supported OS
LCE	4.8	Linux

## Prerequisites - Licenses and Activation Codes

Obtain the license key file and activation codes from the Tenable Support Portal or from the product evaluation email. The following are required for a SecurityCenter CV setup:

- SecurityCenter – License key file (.key file format)
- Nessus – Activation code
- PVS – Activation code
- LCE – Activation code

## SecurityCenter

### SecurityCenter on Tenable Appliance

#### Set up SecurityCenter and upload license key file

1. Deploy the Tenable Appliance OVA file and enable SecurityCenter.
2. Run through the initial configuration of SecurityCenter and attach the license key file.

SecurityCenter License

License File    tenable-SecurityCenter-4.2-5.x-DEMO.key    ✕    Activate

SecurityCenter License

IP Limit	255
Type	Demo
Expiration	Jun 16, 2016 12:00
Licensee	AirGapped Test
Hostname	SCCV
License File	<span>Valid</span>

[Update License](#)

3. Leave the additional licenses empty and complete the initial configuration.

Additional Licenses

Nessus®

+

PVS passive vulnerability scanner™

+

LCE log correlation engine™

+

## Perform offline registration and download for Active Scan Plugins and Feeds

1. Log in to the Tenable Appliance, navigate to **Applications** -> **SecurityCenter** -> **Plugin Management**, and click on the manual plugin update page. A page similar to the following will be displayed:

### Configure Offline Plugin Updates for SecurityCenter™

1. Go to <https://plugins.nessus.org/offline.php>
2. Enter this machine's challenge code: **fb7041cceafcf17f15a86929506bd281741f8248**
3. Enter your activation code.
4. Submit the information.

---

5. Input your activation code as used in step 3:
6. Input URL received from step 4:
7.   [Cancel](#)

2. Record the “machine’s challenge code”; each machine will generate a different code. The code shown above is an example; do not use this code as your challenge code.
3. Connect to <https://plugins.nessus.org/offline.php> from a computer that has Internet connectivity.
4. Enter the machine challenge code and the Nessus activation code. You can find your Nessus activation code from the Tenable Support Portal or license email.

## Generate a license for Nessus 6.2 and older.

To generate a license for a newer version of Nessus click [here](#).

Type 'nessuscli fetch --challenge' on your nessusd server and type in the result :

Enter your activation code :

5. Upon successful activation, copy the URL obtained from the <https://plugins.nessus.org/offline.php> page to Step 6 (below) on the Tenable Appliance interface.

Thank you. You can now obtain the newest Nessus plugins at :

<http://plugins.nessus.org/get.php?f=all-2.0.tar.gz&u=846448e833591981cf5b154bb549253a&p=b4916427678eddd7f254bd5740eccef8>

6. Enter the Nessus activation code generated from <https://plugins.nessus.org/offline.php>.

## Configure Offline Plugin Updates for SecurityCenter™

1. Go to <https://plugins.nessus.org/offline.php>
2. Enter this machine's challenge code: **fb7041cceafcf17f15a86929506bd281741f8248**
3. Enter your activation code.
4. Submit the information.

5. Input your activation code as used in step 3:

6. Input URL received from step 4:

7.   [Cancel](#)

7. Copy both URLs from the Tenable Appliance and download the SecurityCenter Feeds (**SecurityCenterFeed48.tar.gz**) and active plugins (**sc-plugins-diff.tar.gz**) from a computer that has an Internet connection. **Remember to keep both URLs for future plugin downloads.**



Appliance Administration Backup Networking Applications Logs Support













## Apply Offline Plugin Update for SecurityCenter™

1. Download the update from <http://plugins.nessus.org/get.php?f=sc-plugins-diff.tar.gz&u=846448e833591981cf5b154bb549253a&p=b4916427678eddd7f254bd5740eccef8>
2. Download the feed update from <http://plugins.nessus.org/get.php?f=SecurityCenterFeed48.tar.gz&u=846448e833591981cf5b154bb549253a&p=b4916427678eddd7f254bd5740eccef8>
3. Upload tarballs through the [SecurityCenter™ Web UI](#) interface.

## Update Feeds and Plugins on SecurityCenter













1. Connect to SecurityCenter using an admin account. Navigate to **System -> Configuration -> Plugin Feeds** and disable the scheduled plugin updates:

### Schedules

SecurityCenter Feed	Every day at 00:45 -04:00 	Update 	Upload 	Manually Updated: Mar 31st, 2016 18:11
Active Plugins	Every day at 04:00 -04:00 	Update 	Upload 	Manually Updated: Apr 1st, 2016 10:35
Passive Plugins	Every day at 23:35 -04:00 	Update 	Upload 	Manually Updated: Apr 1st, 2016 10:35
Event Plugins	Every day at 04:45 -04:00 	Update 	Upload 	Manually Updated: Apr 1st, 2016 10:35













It is important to disable the scheduled plugin updates when using the manual method.

### Schedules

SecurityCenter Feed	Never 	Update 	Upload 	Manually Updated: Mar 31st, 2016 18:11
Active Plugins	Never 	Update 	Upload 	Manually Updated: Apr 1st, 2016 10:35
Passive Plugins	Never 	Update 	Upload 	Manually Updated: Apr 1st, 2016 10:35
Event Plugins	Never 	Update 	Upload 	Manually Updated: Apr 1st, 2016 10:35

2. Upload the **SecurityCenterFeed48.tar.gz** file to “SecurityCenter Feed” and **sc-plugins-diff.tar.gz file** to “Active Plugins”. The plugin update may take several minutes to complete. The date and time will change in the “Last Updated” field when completed. The update activity can also be tracked under the system logs.

### Schedules

SecurityCenter Feed	Never 	Update 	Upload 	Manually Updated: Jun 1st, 2016 15:48
Active Plugins	Never 	Update 	Upload 	Manually Updated: Jun 1st, 2016 16:50
Passive Plugins	Never 	Update 	Upload 	Manually Updated: Apr 1st, 2016 10:35
Event Plugins	Never 	Update 	Upload 	Manually Updated: Apr 1st, 2016 10:35

## SecurityCenter on Red Hat and CentOS Platforms

### Set up SecurityCenter and upload license key file

1. Install the SecurityCenter RPM file and enable SecurityCenter.
2. Run through the initial configuration of SecurityCenter and attach the license key file:

#### SecurityCenter License

License File	tenable-SecurityCenter-4.2-5.x-DEMO.key	✕	Activate
--------------	---	---	----------

#### SecurityCenter License

IP Limit	255
Type	Demo
Expiration	Jun 16, 2016 12:00
Licensee	AirGapped Test
Hostname	SCCV
License File	<div>Valid</div> <div>Update License</div>

3. Leave the additional licenses empty and complete the initial configuration:

#### Additional Licenses

Nessus®	+
PVS passive vulnerability scanner™	+
LCE log correlation engine™	+



## Perform offline registration and download for Active Scan Plugins and Feeds.

1. If not already in place, install a Nessus scanner on the same host as SecurityCenter. It does not need to be started or otherwise configured.

To prevent the Nessus scanner from starting automatically upon restarting the system, run the following command:

```
# /sbin/chkconfig nessusd off
```

2. Run the following command and save the challenge string that is displayed:

```
# /opt/nessus/sbin/nessuscli fetch --challenge
```

3. Connect to <https://plugins.nessus.org/offline.php> from a computer that has Internet connectivity.
4. Enter the machine challenge code and the Nessus activation code. You can find your Nessus activation code from the Tenable Support Portal or license email.

### Generate a license for Nessus 6.2 and older.

To generate a license for a newer version of Nessus click [here](#).

Type 'nessuscli fetch --challenge' on your nessusd server and type in the result :













Enter your activation code :

5. Upon successful activation, copy the link that starts with <https://plugins.nessus.org/get.php>. Change the “**all-2.0.tar.gz**” to “**SecurityCenterFeed48.tar.gz**” in the original link and save it as a separate favorite link for SecurityCenter Feed downloads. Access this link to download the SecurityCenter Feed offline update file.
6. Use the link copied in step 5, and change “**all-2.0.tar.gz**” to “**sc-plugins-diff.tar.gz**”. Save the link as a favorite for active plugin downloads. Access this link to download the Active Scan plugins offline update file.
7. Download the SecurityCenter Feeds (**SecurityCenterFeed48.tar.gz**) and active plugins (**sc-plugins-diff.tar.gz**) from a computer that has an Internet connection using the favorite links from step 5 (above).  
**Remember to keep both URLs for future plugin downloads.**

## Update Feeds and Plugins on SecurityCenter













1. Connect to SecurityCenter using an admin account. Navigate to **System -> Configuration -> Plugin Feeds** and disable the scheduled plugin updates:

### Schedules

SecurityCenter Feed	Every day at 00:45 -04:00 	Update 	Upload 	Manually Updated: Mar 31st, 2016 18:11
Active Plugins	Every day at 04:00 -04:00 	Update 	Upload 	Manually Updated: Apr 1st, 2016 10:35
Passive Plugins	Every day at 23:35 -04:00 	Update 	Upload 	Manually Updated: Apr 1st, 2016 10:35
Event Plugins	Every day at 04:45 -04:00 	Update 	Upload 	Manually Updated: Apr 1st, 2016 10:35













It is important to disable the scheduled plugin updates when using the manual method:

### Schedules

SecurityCenter Feed	Never 	Update 	Upload 	Manually Updated: Mar 31st, 2016 18:11
Active Plugins	Never 	Update 	Upload 	Manually Updated: Apr 1st, 2016 10:35
Passive Plugins	Never 	Update 	Upload 	Manually Updated: Apr 1st, 2016 10:35
Event Plugins	Never 	Update 	Upload 	Manually Updated: Apr 1st, 2016 10:35

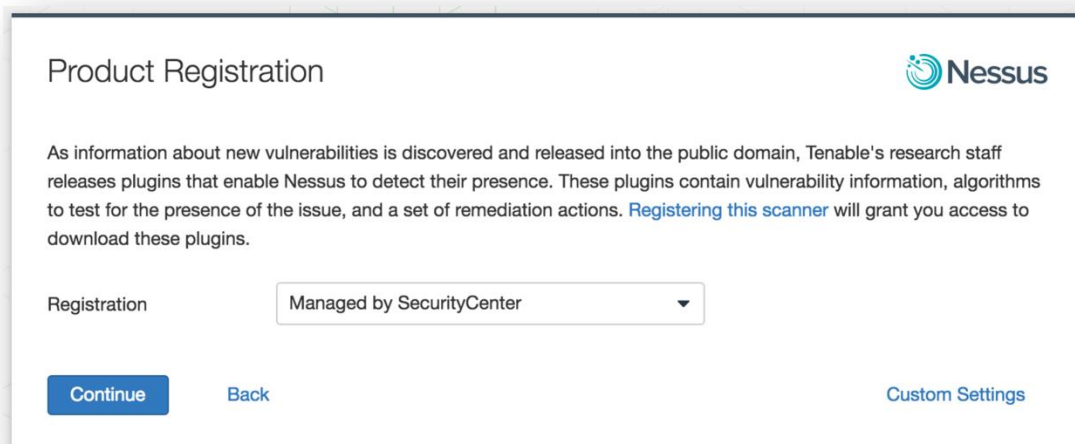
2. Upload the **SecurityCenterFeed48.tar.gz** file to “**SecurityCenter Feed**” and the **sc-plugins-diff.tar.gz** file to “**Active Plugins**”. The plugin update may take several minutes to complete. The date and time will change in the “Last Updated” field when completed. The update activity can also be tracked under the system logs.

### Schedules

SecurityCenter Feed	Never 	Update 	Upload 	Manually Updated: Jun 1st, 2016 15:48
Active Plugins	Never 	Update 	Upload 	Manually Updated: Jun 1st, 2016 16:50
Passive Plugins	Never 	Update 	Upload 	Manually Updated: Apr 1st, 2016 10:35
Event Plugins	Never 	Update 	Upload 	Manually Updated: Apr 1st, 2016 10:35

## Nessus

1. Install Nessus on any supported operating system and start the Nessus service.
2. Run through the initial configuration of Nessus and choose “**Managed by SecurityCenter**” for the registration type.



The image shows the 'Product Registration' window in Nessus. It features the Nessus logo in the top right corner. Below the title, there is a paragraph explaining that Tenable's research staff releases plugins to detect vulnerabilities and that registering the scanner grants access to download these plugins. A 'Registration' dropdown menu is set to 'Managed by SecurityCenter'. At the bottom, there are three buttons: 'Continue' (highlighted in blue), 'Back', and 'Custom Settings'.

3. Add Nessus to SecurityCenter and wait for the plugins to push down. Upon a successful update, the system will show the latest plugin set:

Scanners / Local / Overview			
Nessus Scanner (SC)		Plugins	
Status	● Online	Last Updated	May 31, 2016
Version	6.5.6 (#49)	Expiration	N/A
Platform	LINUX	Plugin Set	201605311930
Last Connection	Today at 5:30 PM	Activation Code	N/A

Repeat the same procedure for additional Nessus scanners.



When Nessus is managed by SecurityCenter, it requires receiving a plugin update from SecurityCenter every 90 days. Otherwise, the activation code will be revoked and Nessus will stop functioning.

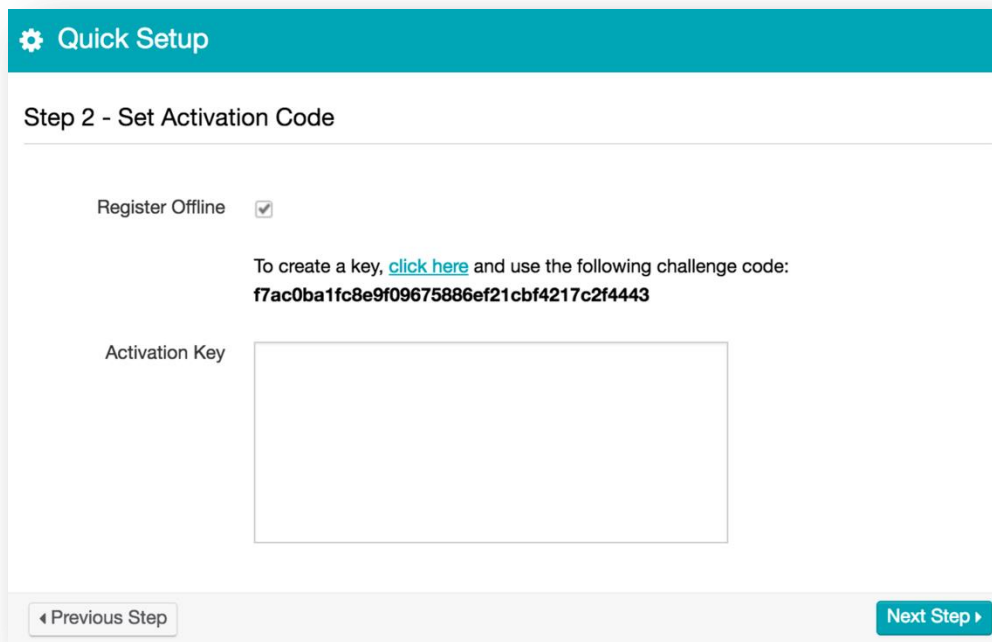
## Passive Vulnerability Scanner



This section is only required for SecurityCenter CV license activation.

## Perform offline registration and download Passive Plugins

1. Deploy PVS on any supported operating system and start the PVS service.
2. Run through the initial configuration of PVS and select “**Register Offline**” for Step 2.



**Quick Setup**

Step 2 - Set Activation Code

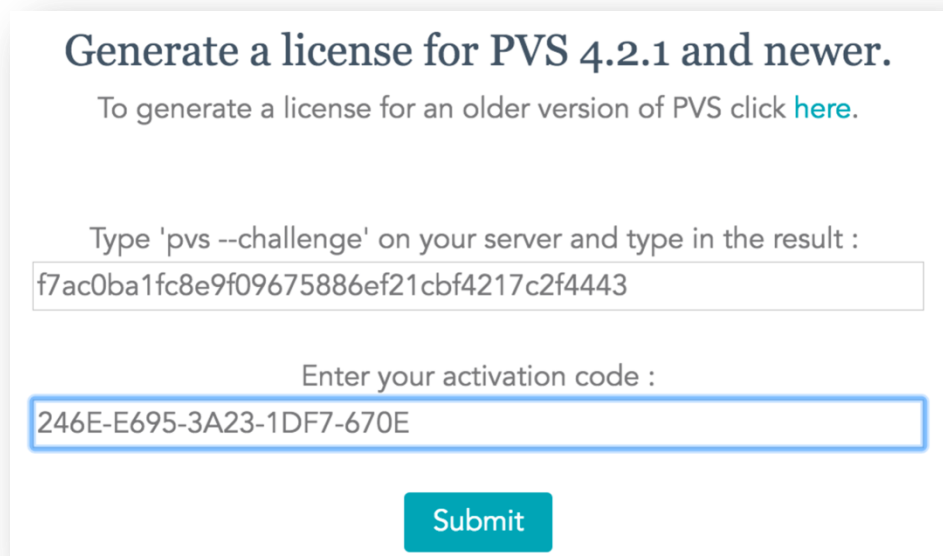
Register Offline ☒

To create a key, [click here](#) and use the following challenge code:  
**f7ac0ba1fc8e9f09675886ef21cbf4217c2f4443**

Activation Key

[◀ Previous Step](#) [Next Step ▶](#)

3. Enter the challenge code obtained from Step 2 and the PVS activation code obtained from the Tenable Support Portal or license email. Navigate to <https://plugins.nessus.org/v2/offline-pvs.php> and enter the codes.



**Generate a license for PVS 4.2.1 and newer.**

To generate a license for an older version of PVS click [here](#).

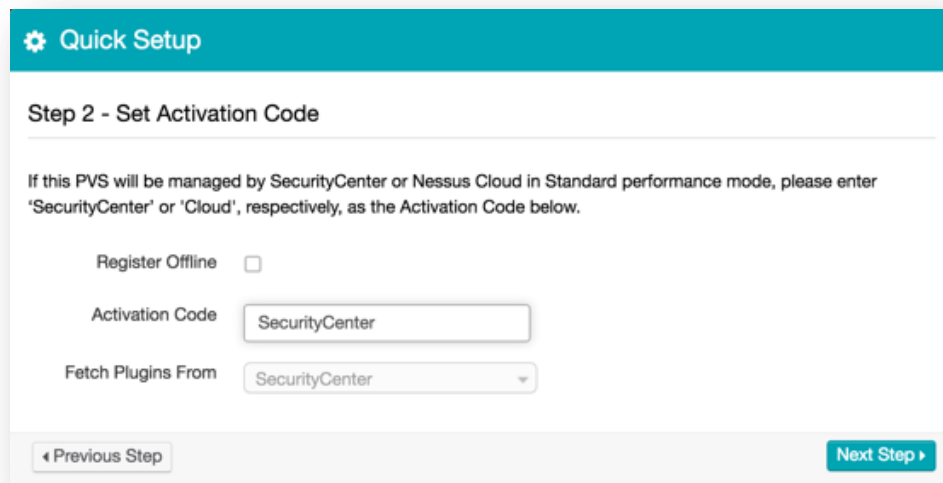
Type 'pvs --challenge' on your server and type in the result :

Enter your activation code :

[Submit](#)

4. Click “**Submit**” and download the “**sc-passive.tar.gz**” file from the link starting with <https://plugins.nessus.org/v2/pvs.php?f=sc-passive.tar.gz&u>. Remember to keep the plugin URL for future downloads.

- Uncheck “**Register Offline**” from Step 2 screen and enter “**SecurityCenter**” in the “**Activation Code**” box. The “Fetch Plugins From” field will automatically change to “SecurityCenter”.



**Quick Setup**

**Step 2 - Set Activation Code**

If this PVS will be managed by SecurityCenter or Nessus Cloud in Standard performance mode, please enter 'SecurityCenter' or 'Cloud', respectively, as the Activation Code below.

Register Offline ☐

Activation Code

Fetch Plugins From

[Previous Step](#) [Next Step](#)

Complete the PVS setup wizard and add PVS to SecurityCenter.













The above offline activation procedure is only required for a first PVS installation. Subsequent PVS installations can be configured to fetch plugin updates from SecurityCenter during the initial setup.



PVS requires receiving a plugin update from SecurityCenter every 30 days. Otherwise, the activation code will be revoked and PVS will stop functioning.

## Update Passive Plugins on SecurityCenter

- Upload the `sc-passive.tar.gz` file to “**Passive Plugins**” in the SecurityCenter Plugins/Feed configuration page. The plugin update may take several minutes to complete. The date and time will change in the “Last Updated” field when completed. The update activity can also be tracked under the system logs.

Schedules			
SecurityCenter Feed	Never 	<a href="#">Update</a>  <a href="#">Upload</a> 	Manually Updated: Jun 1st, 2016 15:48
Active Plugins	Never 	<a href="#">Update</a>  <a href="#">Upload</a> 	Manually Updated: Jun 1st, 2016 16:50
Passive Plugins	Never 	<a href="#">Update</a>  <a href="#">Upload</a> 	Manually Updated: Jun 1st, 2016 17:43
Event Plugins	Never 	<a href="#">Update</a>  <a href="#">Upload</a> 	Manually Updated: Apr 1st, 2016 10:35

## Log Correlation Engine



This section is only required for SecurityCenter CV license activation.

### Perform offline registration, download LCE Plugins, and upload LCE Plugins to LCE Server

1. Install and configure LCE on Red Hat or CentOS and perform the initial configuration of LCE.
2. Log in to the offline LCE terminal as the root user, execute the command below, and copy the challenge code.

```
# /opt/lce/daemons/lce_wwvd --challenge
```

```
[root@LCE ~]# /opt/lce/daemons/lce_wwvd --challenge
```

Challenge:

```
2086d25219743bfeaa75b3008c47f233f36a88e9
```

Copy the challenge above and paste it (with your Activation Code) into:

```
https://plugins.nessus.org/v2/offline-lce.php
```

```
[root@LCE ~]# █
```

3. Connect to <https://plugins.nessus.org/v2/offline-lce.php> from a computer that has an Internet connection. Enter the challenge code and the LCE activation code obtained from the Tenable Support Portal or license email.

### Generate a license for LCE.

Type `/opt/lce/daemons/lce_wwvd --challenge` on your server and type in the result :

Enter your activation code :

Submit

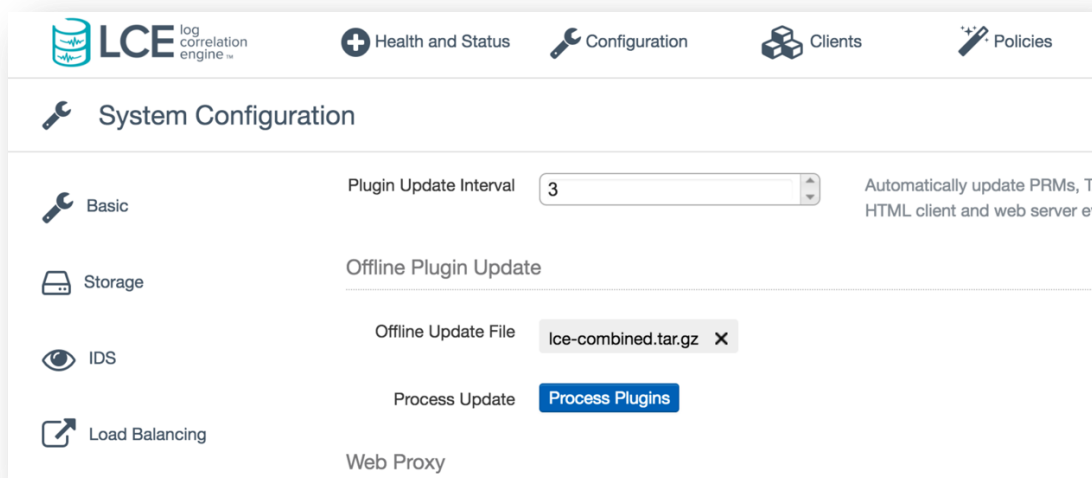
- Download the `lce-combined.tar.gz` file and keep the URL for future LCE plugin downloads.

Thank you. You can now obtain the newest LCE Identities at :

<https://plugins.nessus.org/v2/lce.php?f=lce-combined.tar.gz&u=839a86efb58a6060c4067d5a4284da24&p=ad295e4dba674905a2eb973acae83df3>

- Select the link to download the license key "`lce.license`", or create an "`lce.license`" file by copying the information returned into a text file from "-----BEGIN TENABLE LICENSE-----" to "-----END TENABLE LICENSE-----".
- Upload the `lce.license` file to `/opt/lce/daemons` and run the following command:
 

```
# /opt/lce/daemons/lce_wwvd --register-offline lce.license
```
- Upload the `lce-combined.tar.gz` file through the offline update page in LCE:



## Update LCE Plugins on SecurityCenter

- Upload the `lce-combined.tar.gz` file to "**Event Plugins**" in the SecurityCenter Plugins/Feed configuration page. The plugin update may take several minutes to complete. The date and time will change in the "Last Updated" field when completed. The update activity can also be tracked under the system logs.

### Schedules

SecurityCenter Feed	Never	Update	Upload	Manually Updated: Jun 1st, 2016 15:48
Active Plugins	Never	Update	Upload	Manually Updated: Jun 1st, 2016 16:50
Passive Plugins	Never	Update	Upload	Manually Updated: Jun 1st, 2016 17:43
Event Plugins	Never	Update	Upload	Manually Updated: Jun 1st, 2016 18:41

---



## About Tenable Network Security

Tenable Network Security transforms security technology for the business needs of tomorrow through comprehensive solutions that provide continuous visibility and critical context, enabling decisive actions to protect your organization. Tenable eliminates blind spots, prioritizes threats, and reduces exposure and loss. With more than one million users and more than 20,000 enterprise customers worldwide, organizations trust Tenable for proven security innovation. Tenable's customers range from Fortune Global 500 companies, to the U.S. Department of Defense, to mid-sized and small businesses in all sectors, including finance, government, healthcare, higher education, retail, and energy. Transform security with Tenable, the creators of Nessus and leaders in continuous monitoring, by visiting [tenable.com](https://tenable.com).