

# Radware vDirect

## **GLOBAL ELASTIC LICENSE - LOCAL SERVER USER GUIDE**



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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

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@author Paulo Barreto <paulo.barreto@terra.com.br>

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 <b>Note:</b>	Additional information	Informations complémentaires	Zusätzliche Informationen
 <b>To</b>	A statement and instructions	Références et instructions	Eine Erklärung und Anweisungen
 <b>Tip:</b>	A suggestion or workaround	Une suggestion ou solution	Ein Vorschlag oder eine Umgehung
 <b>Warning:</b>	Possible physical harm to the operator	Blessure possible de l'opérateur	Verletzungsgefahr des Bedieners

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# CHAPTER 1 – INSTALLATION

This document describes the following topics:

- [Packaging, page 13](#)
- [Prerequisites, page 13](#)
- [Installing the Local License Server \(LLS\), page 13](#)
- [Managing the LLS Service from the CLI, page 16](#)
- [Updating Trusted Certificates, page 16](#)

## Packaging

The Local License Server (LLS) comes in the form of a compressed tar (tgz) file named *license-server-<version>.tgz*. For example, *license-server-1.2.0-3.tgz*.

## Prerequisites

Before you begin LLS installation, note the following:

- LLS must be installed on vDirect 4.5.0 or later.
- vDirect must be configured with a static IP address.
- DNS must be properly configured on the vDirect.
- On your firewall, and for cloud security groups, enable port 7070 for communication between Alteon and LLS.
- Before activating the license, make sure that the LLS server and all other servers in your environment, including Alteon, are configured with the same time zone and time settings.
- If setting up LLS in a High Availability environment, make sure the vDirect HA configuration is set up and working properly before beginning the LLS installation.

For information on setting up a High Availability environment, see the “Configuring vDirect-VA Virtual Appliance High Availability” section in the *Radware vDirect Administration Guide*.



**Tip:** Radware recommends that you let the primary vDirect boot up before the secondary vDirect.

## Installing the Local License Server (LLS)

You can install the LLS in standalone mode or as an HA pair.

The installation mode depends on the HA configuration of the vDirect that the LLS is being installed on. LLS cannot be installed in standalone mode on a vDirect that is set up as an HA pair.



### To install the LLS in standalone mode

- > Install the LLS on the vDirect as described at [Common Installation Steps, page 14](#).



### To install the LLS as an HA pair

1. Make sure the vDirect HA setup is complete and working properly.
2. Install LLS on the secondary vDirect as described at [Common Installation Steps, page 14](#).  
This LLS instance will become the Backup LLS.
3. Install LLS on the primary vDirect as described at [Common Installation Steps, page 14](#).  
This LLS instance will become the Main LLS.

## Common Installation Steps

These steps are common to the procedures for installing the LLS in standalone mode or as an HA pair.

1. Copy *license-server-<version>.tgz* to the vDirect.  
Run

```
scp license-server-<version>.tgz root@<IP_ADDRESS_VDIRECT>:
```

2. Log in to the vDirect with your user name and password (the defaults are *root/radware*).  
Run

```
ssh root@<IP_ADDRESS_VDIRECT>
```

3. Untar *license-server-<version>.tgz* in the home directory *"/root"*.  
Run

```
tar -zxvf license-server-<version>.tgz
```

4. Install LLS.

For online mode, run the following command where FNO is the required mode:

```
cd ~/license-server-<version>  
./install.py FNO
```

If offline mode is required, run the following command:

```
cd ~/license-server-<version>  
./install.py --cloud-sync Offline
```

The command line options available for the *install.py* script are described at [Advanced Installation Options, page 15](#).

The HostID of the LLS server displays after successful configuration, as shown:

```
#l
"main" : "http://172.19.102.149:7070"
}
Auto Configuration successful
-----
License Server HostID: 42163ED8-3435-C975-31BB-5415B251CD18/PUBLISHER_DEFINED
-----
Setup complete!
```

## Advanced Installation Options

[Table 1 - Command Line Options for install.py, page 15](#) describes the command line interface options available for the `install.py` script.

**Table 1: Command Line Options for install.py**

Option	Description
<code>--server-alias ALIAS</code>	<p>A user-defined name for the LLS, which can be helpful to identify the LLS in the cloud portal. By default, the cloud portal will use the Host ID as the name of the LLS if no alias is given.</p> <p><b>Note:</b> Radware recommends that you use this option to provide a meaningful name for the LLS that will display in the Flexera FlexNet Operations Cloud Portal.</p>
<code>--backup-hostid BACKUP_HOSTID</code>	<p>If the LLS is set up as an HA pair, Radware recommends installing the LLS on the Secondary vDirect before installing it on the Primary vDirect to allow the Main LLS installation on the Primary vDirect to auto-discover the Host ID of the Backup LLS from the Secondary vDirect.</p> <p>If for some reason this installation order is not possible, use this command line option to specify the <code>BACKUP_HOSTID</code> when installing the Main LLS on the Primary vDirect.</p>
<code>--overwrite</code>	<p>If the LLS needs to be re-installed, it will detect if the new configuration is different from the current configuration.</p> <p>If you see this warning and you are sure that you want to overwrite the LLS configuration, then run the install script again and specify this option.</p> <p>This option can be helpful during license server upgrade.</p>
<code>--overwrite-workflows</code>	<p>Similar to the overwrite option, if the installation script detects that the license workflows already exist in vDirect, it prints a message to that affect.</p> <p>If you are sure you want to update the license workflows in vDirect with the ones from the installation, then run the install script again and specify this option.</p> <p>This option can be helpful during license server upgrade.</p> <p><b>Note:</b> When this option is specified, the installation script updates only the license workflows in vDirect. The license server itself is not re-installed.</p>



**Table 1: Command Line Options for install.py**

Option	Description
<code>--cloud-sync [FNO, Offline, UAT]</code>	Installs the LLS server. For example: <ul style="list-style-type: none"><li><code>./install.py --cloud-sync FNO</code> The default value. Installs LLS using the settings for the Flexera Production environment.</li><li><code>./install.py --cloud-sync Offline</code> Installs LLS using the settings for offline mode.</li><li><code>./install.py --cloud-sync UAT</code> Installs LLS using the settings for the Flexera User Acceptance Test Environment.</li></ul>

## Managing the LLS Service from the CLI

You can manage the LLS service from the command line interface using the following options:

**Table 2: LLS Command Line Options**

Option	Description
<code>systemctl start radware-license</code>	Starts the LLS service.
<code>systemctl stop radware-license</code>	Stops the LLS service.
<code>systemctl restart radware-license</code>	Restarts the LLS service.
<code>systemctl status radware-license</code>	Verifies the status of the LLS service.

## Updating Trusted Certificates

This section describes how to update the set of trusted certificates that the LLS uses to establish HTTPS connections to the cloud portal in the event that the server certificate for the cloud portal is changed in the future.



### To update trusted certificates

1. Copy the new *flexnet.certs* file to this location:

```
/opt/radware/license/flexnet.certs
```

2. Restart the Radware license server:

Run

```
systemctl restart radware-license
```

# CHAPTER 2 – LICENSE ACTIVATION

This document describes the following topics:

- [Enabling the GEL Dashboard in the vDirect Web User Interface, page 17](#)
- [Activating a License, page 18](#)
- [Deactivating a License, page 22](#)

For additional information on the Radware Global Elastic License (GEL), see the “Global Elastic License (GEL)” appendix in the *Alteon VA Maintenance and Installation Guide*.

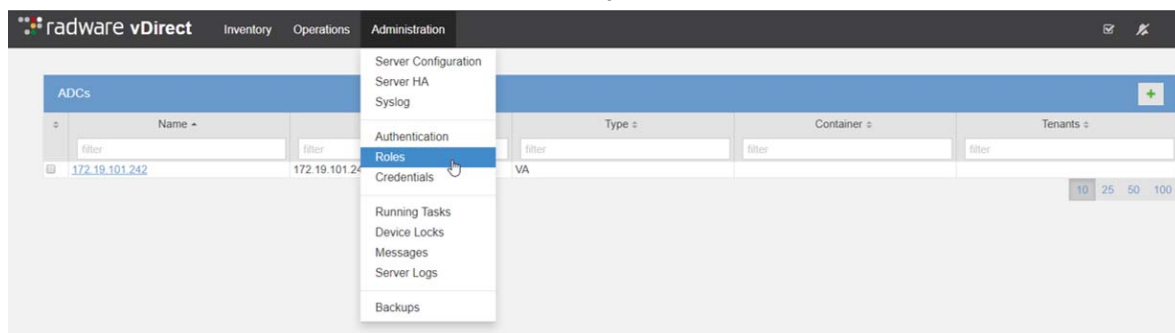
## Enabling the GEL Dashboard in the vDirect Web User Interface

To enable the **GEL Dashboard** menu item, it is necessary to perform this procedure only once after the initial LLS installation.

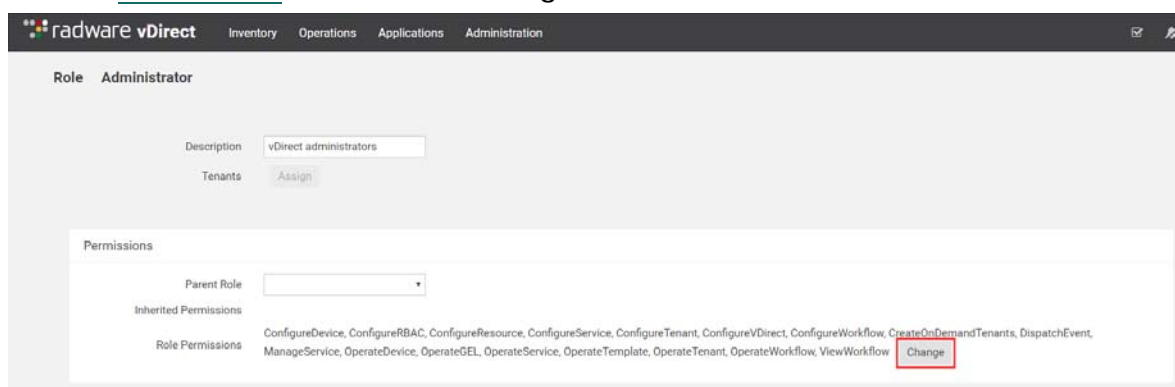


To enable the GEL Dashboard in the vDirect Web user interface

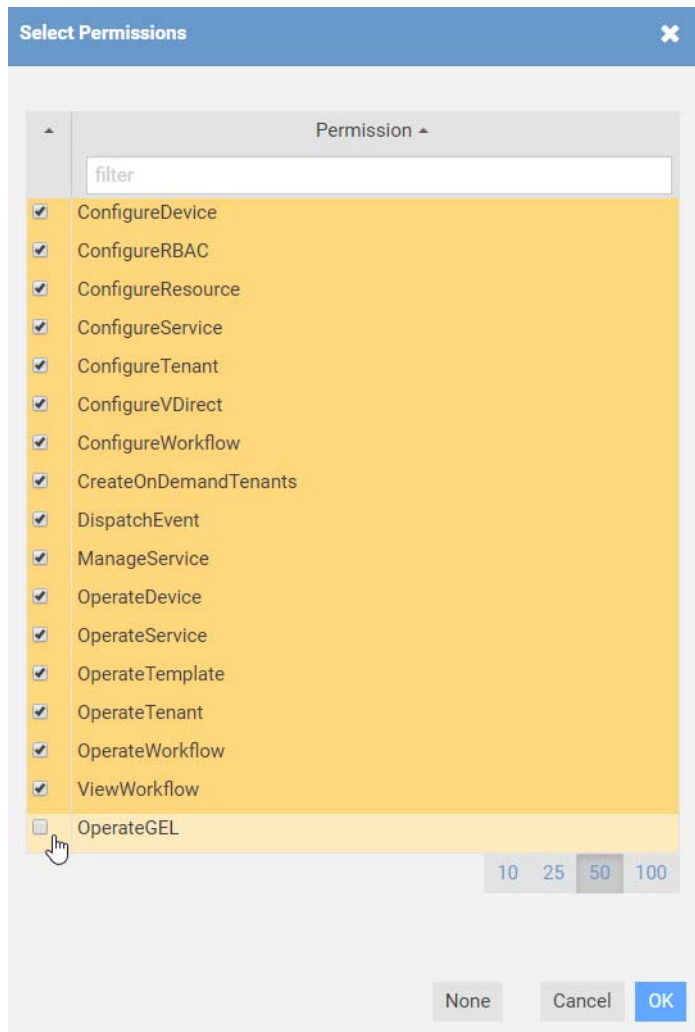
1. In the vDirect server Web user interface, select **Operations > Roles**.



2. Click the [Administrator](#) link, then click **Change**.

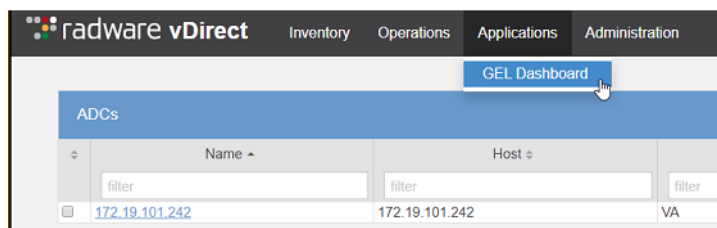


- From the permissions list, select **OperateGEL**, then click **OK**.



- Log in again to the vDirect server.

The **GEL Dashboard** menu item displays when you place your cursor over the **Applications** menu.



## Activating a License

This section describes the following topics:

- [Activating License Pools for Online Operation Mode, page 19](#)
- [Activating License Pools for Offline Operation Mode, page 20](#)

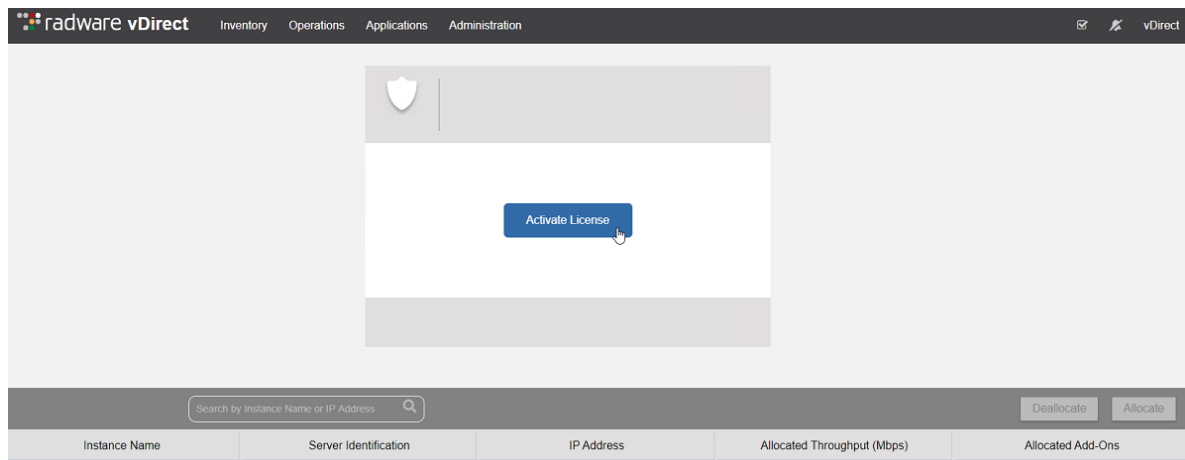
## Activating License Pools for Online Operation Mode

When the installation of the LLS is complete, the administrator must activate the license pools on the LLS before client devices can begin to consume licenses. You will receive an email containing the Activation IDs that are required to activate the license pools. If you purchased more than one license pool, you can choose to assign all or some of the pools to this LLS instance.

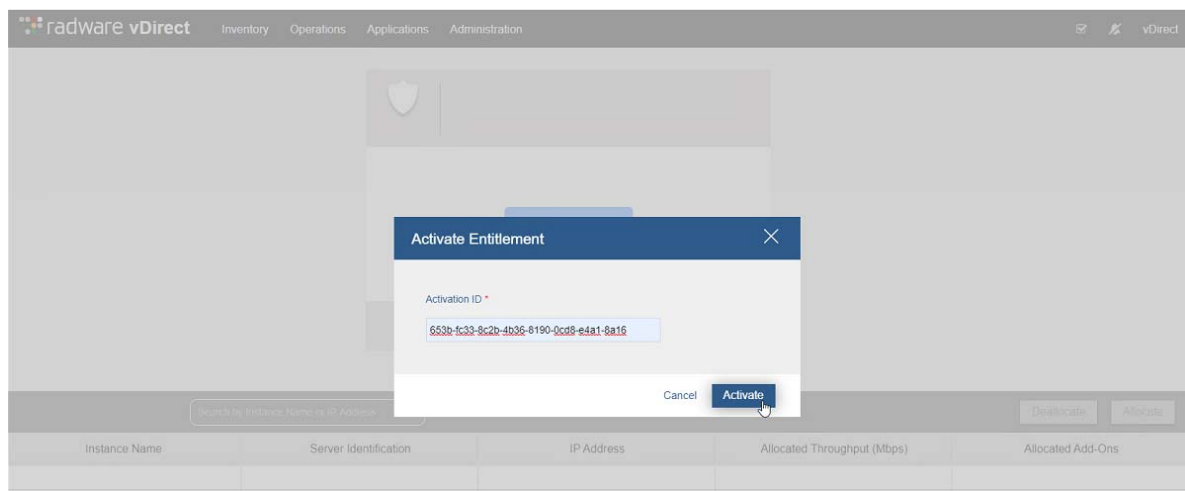


To activate license pools on the LLS in online mode

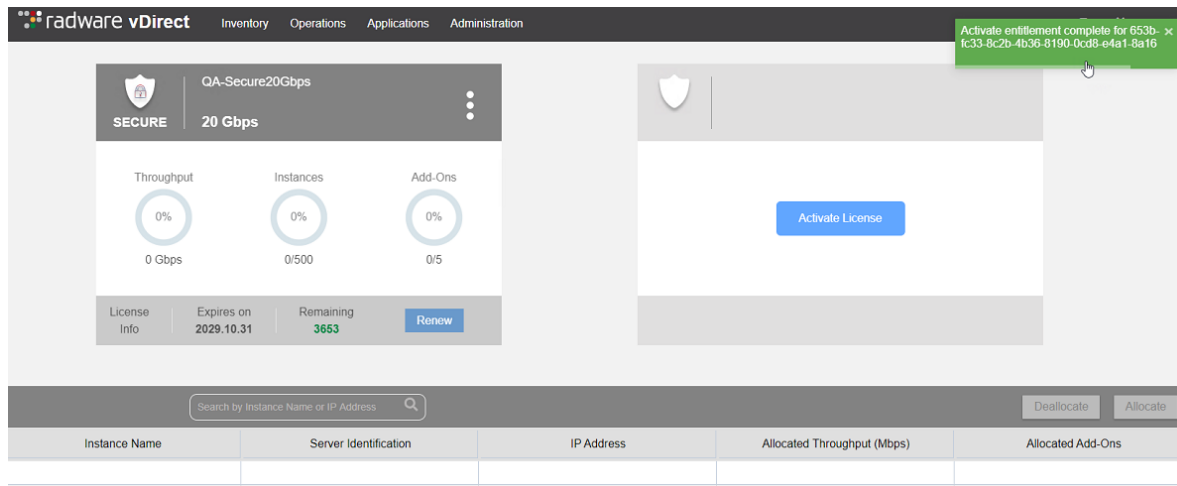
1. In the vDirect server Web user interface, select **Applications** > **GEL Dashboard** and click **Activate License**.



2. Copy the Activation ID from the list of Entitlements received in the email or from the Flexera Web site.
3. In the vDirect server Web interface, paste the Activation ID into the **Activate Entitlement** dialog box, and select **Activate**.



After successful activation, the activated Entitlement displays:



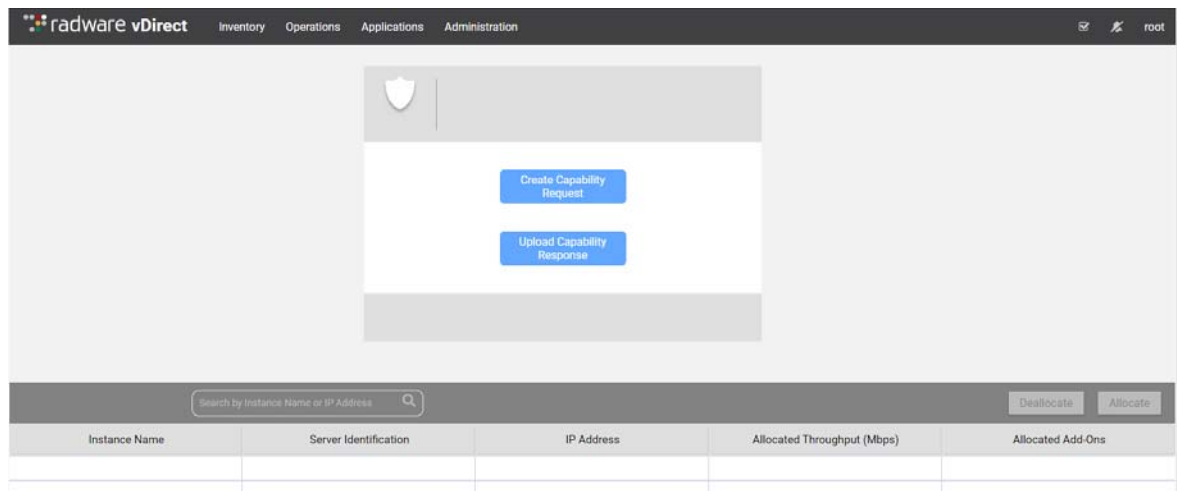
## Activating License Pools for Offline Operation Mode

Activating an Entitlement in offline mode from the vDirect Web user interface requires running both the **License Server Generate Capability Request** workflow and the **License Server Load Capability Response** workflow, as follows:



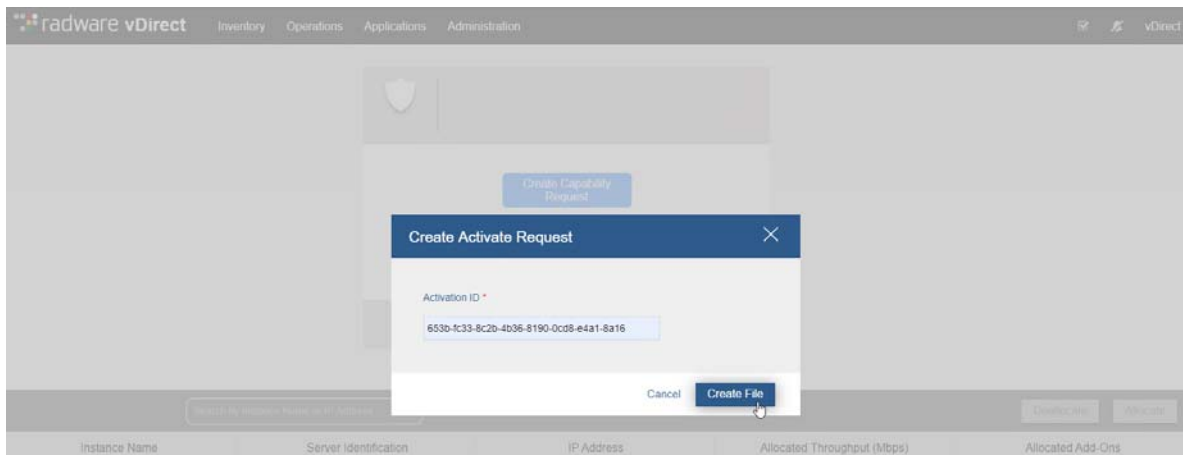
To activate license pools on the LLS in offline mode

1. After initial vDirect server installation, enable the GEL Dashboard as described at [Enabling the GEL Dashboard in the vDirect Web User Interface, page 17](#).
2. In the vDirect server Web user interface, select **Applications > GEL Dashboard** and click **Create Capacity Request**.



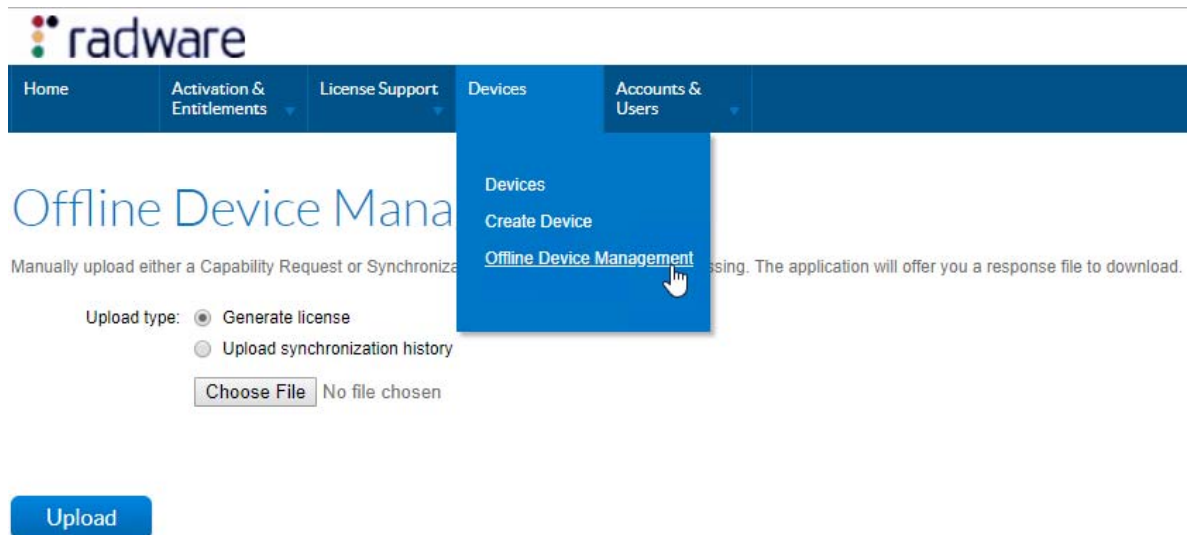
3. Copy the Activation ID from the list of Entitlements received in the email or from the Flexera Web site.

4. In the vDirect server Web interface, paste the Activation ID into the **Create Activate Request** dialog box, and select **Create File**.

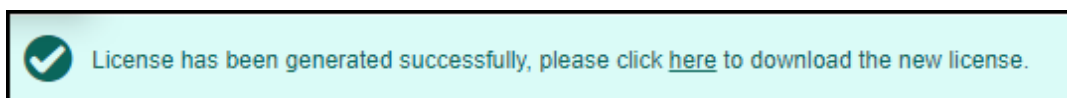


A *CapabilityRequest\_Activate.bin* file is created and downloaded to your local machine.

5. In the Flexera Web site, upload the *CapabilityRequest\_Activate.bin* file from your local machine, as follows:
  - a. In the Flexera Web site, select **Devices > Offline Device Management**.

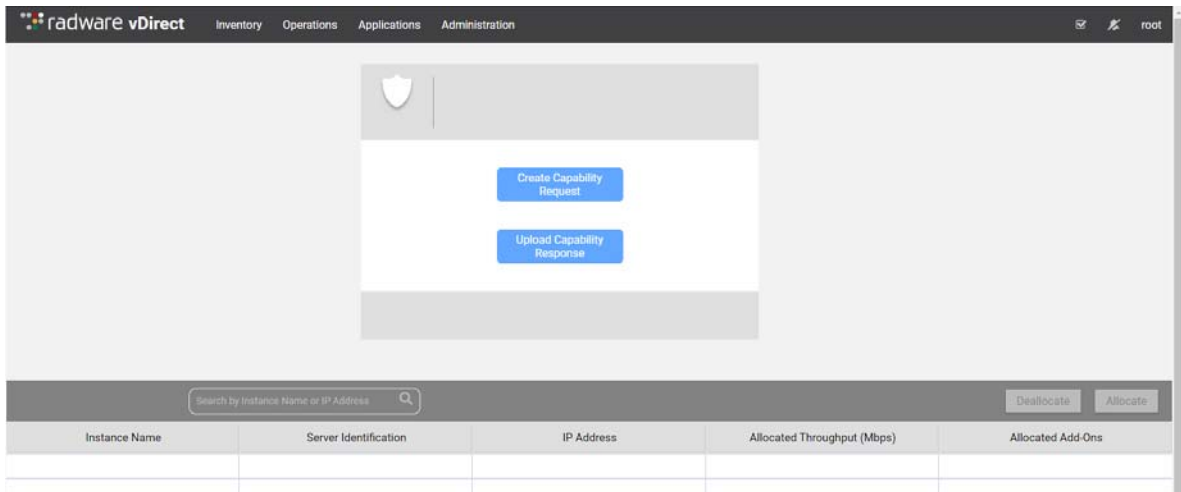


- b. From the **Downloads** list on your local machine, select the *CapabilityRequest\_Activate.bin* file and click **Open**.
  - c. Click **Upload** and wait for the following message to display at the top of the screen:

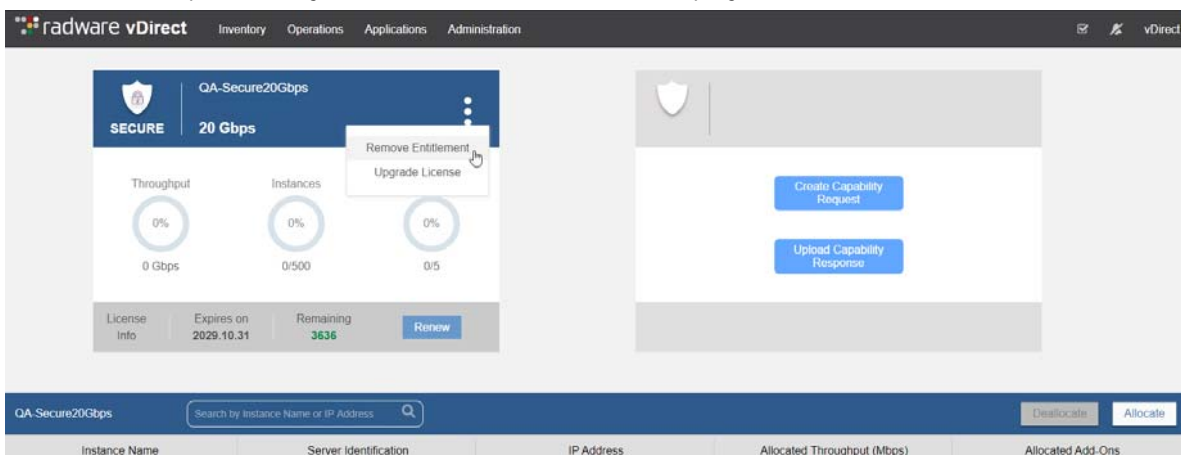


Click the [here](#) link in the message and a *CapabilityResponse.bin* file is created and downloaded to your local machine.

6. In the vDirect server, upload the *CapabilityResponse.bin* file to the GEL Dashboard, as follows:
  - a. In the vDirect server Web user interface, select **Applications > GEL Dashboard** and click **Upload Capability Response**.



- b. Select the *CapabilityResponse.bin* file and click **Open**. Then click **Upload**. The license is updated in your vDirect installation and displays in the GEL Dashboard.



## Deactivating a License

This section describes how to deactivate a license pool for removal from the LLS.

### Deactivating License Pools for Online Operation Mode

To deactivate the license allocated during online mode, repeat the steps described at [Online Deactivation, page 23](#).

### Deactivating License Pools for Offline Operation Mode

To deactivate the license allocated during offline mode, repeat the steps described at [Offline Deactivation, page 23](#).

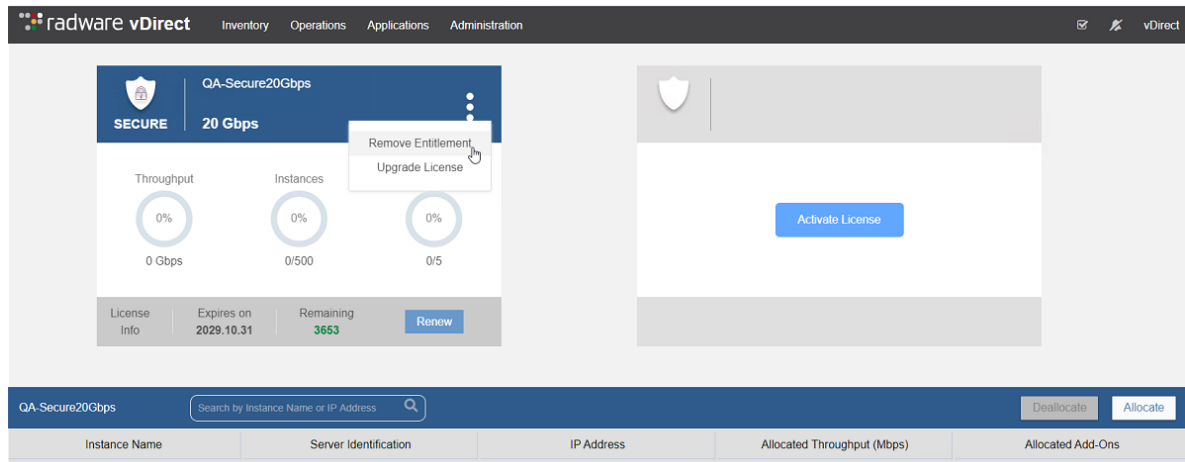


## Online Deactivation



To deactivate a license in online mode

1. In the vDirect GEL Dashboard, select **Remove Entitlement** for the license you want to deactivate.



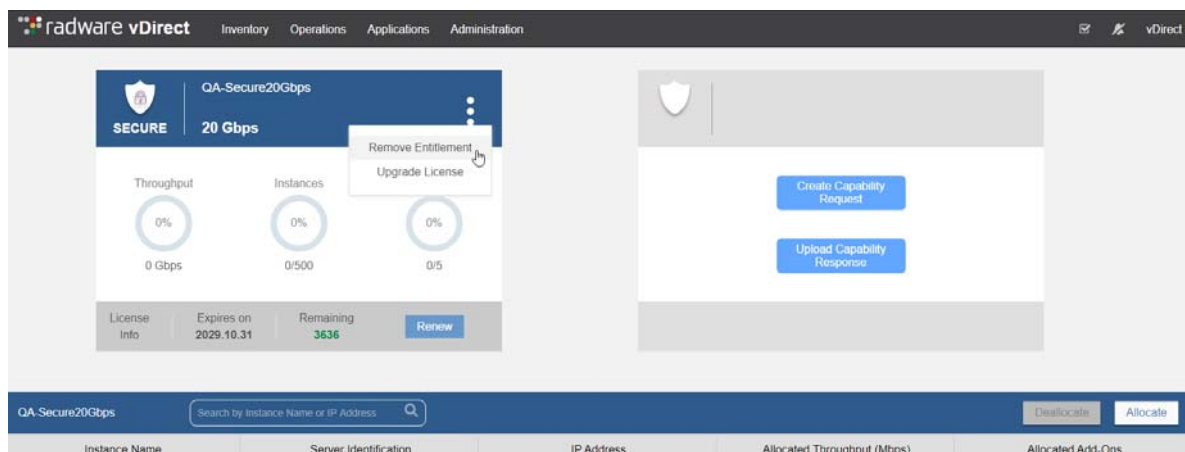
2. Enter the Activation ID to be removed and click **Remove**.

## Offline Deactivation



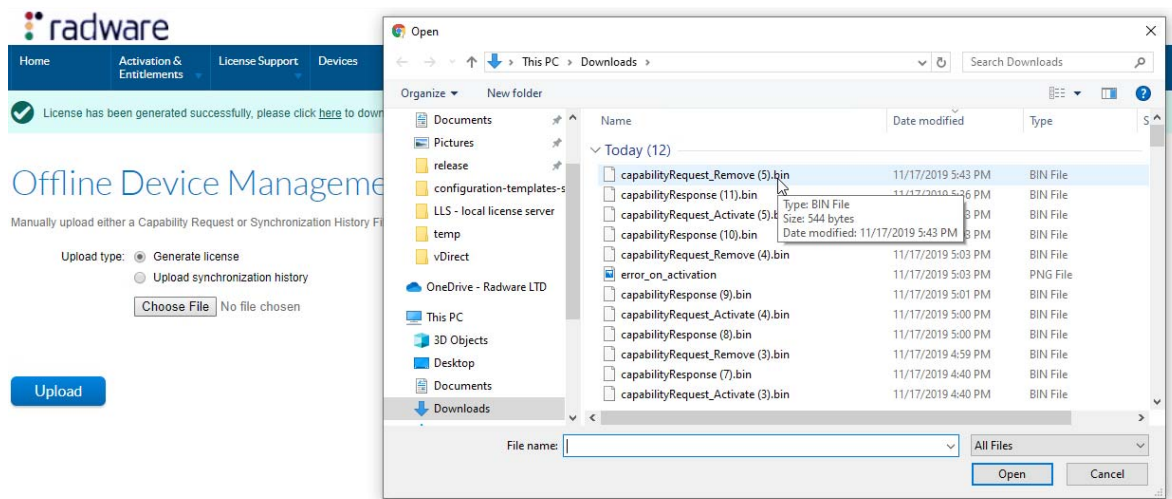
To deactivate a license in offline mode

1. In the vDirect GEL Dashboard, select **Remove Entitlement** for the license you want to deactivate.

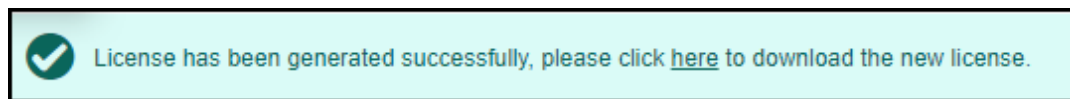


2. Paste the Activation ID into the **Create Remove Request** dialog box, and select **Create File**.  
A *CapabilityRequest\_Remove.bin* file is created and downloaded to your local machine.

3. In the Flexera Web site, upload the *CapabilityRequest\_Remove.bin* file as shown:



4. Click **Upload** and wait for the following message to display at the top of the screen:



Click the [here](#) link in the message and a *CapabilityResponse.bin* file is created and downloaded to your local machine.

5. In the vDirect server Web user interface, select **Applications > GEL Dashboard**, click **Upload Capability Response** and select the file.

Executing the upload to the vDirect server removes the license. When complete, the Entitlement is removed from the GEL Dashboard.

# CHAPTER 3 – LICENSE ALLOCATION

This document describes the following topics:

- [Configure Alteon to Consume a License from the LLS Server, page 25](#)
- [Releasing a Previously Allocated License, page 27](#)

For additional information on the Radware Global Elastic License (GEL), see the “Global Elastic License (GEL)” appendix in the *Alteon VA Maintenance and Installation Guide*.

## Configure Alteon to Consume a License from the LLS Server

This section describes how to consume the license from an LLS server.



To configure Alteon to consume a license from the LLS

1. In the vDirect server Web user interface, select **Applications > GEL Dashboard**, click the selected Entitlement then click **Allocate**.

The screenshot displays the Radware vDirect web interface. The top navigation bar includes 'radware vDirect', 'Inventory', 'Operations', 'Applications', and 'Administration'. The main content area is titled 'QA-Secure20Gbps' and features a 'SECURE' badge and a '20 Gbps' label. Below this, there are three circular progress indicators for 'Throughput' (0%), 'Instances' (0%), and 'Add-Ons' (0%). A 'License Info' section shows 'Expires on 2029.10.31' and 'Remaining 3653'. A 'Renew' button is present. On the right, there is a large 'Activate License' button. At the bottom, a table header is visible with columns: 'Instance Name', 'Server Identification', 'IP Address', 'Allocated Throughput (Mbps)', and 'Allocated Add-Ons'. The 'Allocate' button is highlighted in the bottom right corner.

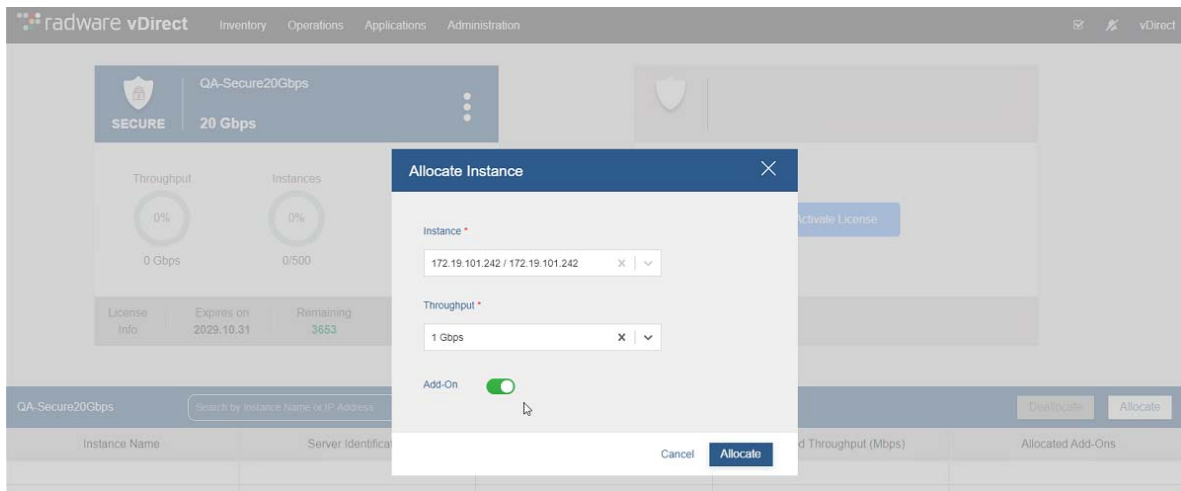
2. Select **Allocate Instance** and select the required bandwidth.

The first screenshot shows the Radware vDirect interface for a 'QA-Secure20Gbps' license. The license is 'SECURE' and has a total capacity of '20 Gbps'. It displays three metrics: Throughput (5% at 1 Gbps), Instances (0.2% at 1/500), and Add-Ons (20% at 1/5). The license expires on 2029.10.31 and has 3653 remaining. An 'Activate License' button is visible. Below this is a table with one instance:

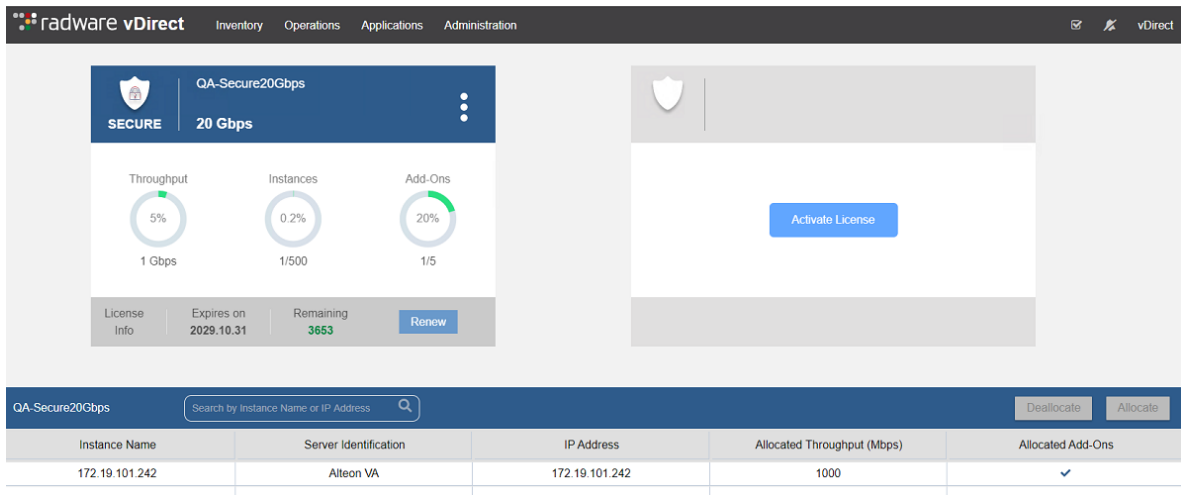
Instance Name	Server Identification	IP Address	Allocated Throughput (Mbps)	Allocated Add-Ons
172.19.101.242	Alteon VA	172.19.101.242	1000	✓

The second screenshot shows the same interface but with an 'Allocate Instance' dialog box open. The dialog has a search bar for the instance name (showing '172.19.101.242 / 172.19.101.242') and a dropdown for 'Throughput'. The dropdown menu is open, showing options: 25 Mbps, 50 Mbps, 100 Mbps, 200 Mbps, 500 Mbps, 1 Gbps (highlighted), 3 Gbps, and 6 Gbps. 'Cancel' and 'Allocate' buttons are at the bottom of the dialog.

- Click **Allocate** to add the new license.



- On successful execution of the allocation request, the GEL Dashboard displays the allocation to the correct Alteon.



## Releasing a Previously Allocated License

To deallocate the license that was previously allocated to a selected Alteon, completely remove the license from Alteon, as follows:



### To remove a license from Alteon

1. In the vDirect server Web user interface, select **Applications > GEL Dashboard**.
2. Select the relevant Entitlement and then, in the **Instances** table, select the Alteon from which to remove the license. Then click **Deallocate**.

The screenshot displays the Radware vDirect web interface. At the top, there's a navigation bar with 'Inventory', 'Operations', 'Applications', and 'Administration'. The main content area shows the 'QA-Secure20Gbps' entitlement with a 'SECURE' status and '20 Gbps' capacity. Below this, there are three circular gauges for 'Throughput' (0.25%), 'Instances' (0.2%), and 'Add-Ons' (20%). A 'Deallocate License' dialog box is open in the center, with the text: 'Deallocating the license will affect the device's ability to provide service. Are you sure you want to release the license?'. The dialog has 'Deallocate' and 'Cancel' buttons. In the background, a table lists instances. The table has columns: 'Instance Name', 'Server Identification', 'IP Address', 'Allocated Throughput (Mbps)', and 'Allocated Add-Ons'. The table contains one row with the following data:

Instance Name	Server Identification	IP Address	Allocated Throughput (Mbps)	Allocated Add-Ons
172.19.101.242	Alteon VA	172.19.101.242	50	✓

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