


Enabling HTTPS

« (enrollment.html) » (standalone.html)  (https://bugs.launchpad.net/ironic/+filebug?field.title=Enabling%20HTTPS%20in%20Installation%20Guide%20for%20Bare%20Metal%20Service&field.comment=%0A%0A-----%0ARelease:%200.1%20on%202016-11-09%2020:35%0ASHA:%20e3bedc4eadbafbf11c1e26a216e9d40a1839a838%0ASource:%20http://git.openstack.org/cgit/openstack/ironic/tree/install-guide/source/enabling-https.rst%0AURL: http://docs.openstack.org/project-install-guide/baremetal/draft/enabling-https.html&field.tags=install-guide)

UPDATED: 2016-11-09 20:35

Contents (index.html)

- [Enabling HTTPS in Swift](#)
- [Enabling HTTPS in Image service](#)
- [Enabling HTTPS communication between Image service and Object storage](#)
- [Enabling HTTPS communication between Image service and Bare Metal service](#)

Enabling HTTPS in Swift

The drivers using virtual media use swift for storing boot images and node configuration information (contains sensitive information for Ironic conductor to provision bare metal hardware). By default, HTTPS is not enabled in swift. HTTPS is required to encrypt all communication between swift and Ironic conductor and swift and bare metal (via virtual media). It can be enabled in one of the following ways:

- [Using an SSL termination proxy \(http://docs.openstack.org/security-guide/secure-communication/tls-proxies-and-http-services.html\)](http://docs.openstack.org/security-guide/secure-communication/tls-proxies-and-http-services.html)
- [Using native SSL support in swift \(http://docs.openstack.org/developer/swift/deployment_guide.html\)](http://docs.openstack.org/developer/swift/deployment_guide.html) (recommended only for testing purpose by swift).

Enabling HTTPS in Image service

Ironic drivers usually use Image service during node provisioning. By default, image service does not use HTTPS, but it is required for secure communication. It can be enabled by making the following changes to `/etc/glance/glance-api.conf`:

1. [Configuring SSL support \(http://docs.openstack.org/developer/glance/configuring.html#configuring-ssl-support\)](http://docs.openstack.org/developer/glance/configuring.html#configuring-ssl-support)
2. Restart the glance-api service:

```
Fedora/RHEL7/CentOS7:
    sudo systemctl restart openstack-glance-api

Debian/Ubuntu:
    sudo service glance-api restart
```

See the [Glance \(http://docs.openstack.org/developer/glance/\)](http://docs.openstack.org/developer/glance/) documentation, for more details on the Image service.

Enabling HTTPS communication between Image service and Object storage

This section describes the steps needed to enable secure HTTPS communication between Image service and Object storage when Object storage is used as the Backend.

To enable secure HTTPS communication between Image service and Object storage follow these steps:

1. [Enabling HTTPS in Swift](#)
2. [Configure Swift Storage Backend \(http://docs.openstack.org/developer/glance/configuring.html#configuring-the-swift-storage-backend\)](http://docs.openstack.org/developer/glance/configuring.html#configuring-the-swift-storage-backend)
3. [Enabling HTTPS in Image service](#)

Enabling HTTPS communication between Image service and Bare Metal service

This section describes the steps needed to enable secure HTTPS communication between Image service and Bare Metal service.

To enable secure HTTPS communication between Bare Metal service and Image service follow these steps:

1. Edit `/etc/ironic/ironic.conf`:

```
[glance]
...
glance_cafile=/path/to/certfile
glance_protocol=https
glance_api_insecure=False
```

Note

'glance_cafile' is a optional path to a CA certificate bundle to be used to validate the SSL certificate served by Image service.

2. Restart ironic-conductor service:

```
Fedora/RHEL7/CentOS7:
    sudo systemctl restart openstack-ironic-conductor

Debian/Ubuntu:
    sudo service ironic-conductor restart
```

⏪ (enrollment.html) ⏩ (standalone.html) 🐛 (https://bugs.launchpad.net/ironic/+filebug?field.title=Enabling%20HTTPS%20in%20Installation%20Guide%20for%20Bare%20Metal%20Service&field.comment=%0A%0A-----%0ARELEASE:%200.1%20on%202016-11-09%2020:35%0ASHA:%20e3bedc4eadbafbf11c1e26a216e9d40a1839a838%0ASOURCE:%20http://git.openstack.org/cgit/openstack/ironic/tree/install-guide/source/enabling-https.rst%0AURL: http://docs.openstack.org/project-install-guide/baremetal/draft/enabling-https.html&field.tags=install-guide)

UPDATED: 2016-11-09 20:35

 <https://creativecommons.org/licenses/by/3.0/>
Except where otherwise noted, this document is licensed under [Creative Commons Attribution 3.0 License \(https://creativecommons.org/licenses/by/3.0/\)](https://creativecommons.org/licenses/by/3.0/). See all [OpenStack Legal Documents \(http://www.openstack.org/legal\)](http://www.openstack.org/legal).

🐛 FOUND AN ERROR? REPORT A BUG (HTTPS://BUGS.LAUNCHPAD.NET/IRONIC/+FILEBUG?FIELD.TITLE=ENABLING%20HTTPS%20IN%20INSTALLATION%20GUIDE%20FOR%20BARE%20METAL%20SERVICE&FIELD.COMMENT=%0A%0A-----%0ARELEASE:%200.1%20ON%202016-11-09%2020:35%0ASHA:%20E3BEDC4EADBFBF11C1E26A216E9D40A1839A838%0ASOURCE:%20HTTP://GIT.OPENSTACK.ORG/CGIT/OPENSTACK/IRONIC/TREE/INSTALL-GUIDE/SOURCE/ENABLING-HTTPS.RST%0AURL: HTTP://DOCS.OPENSTACK.ORG/PROJECT-INSTALL-GUIDE/BAREMETAL/DRAFT/ENABLING-HTTPS.HTML&FIELD.TAGS=INSTALL-GUIDE)
❓ QUESTIONS? (HTTP://ASK.OPENSTACK.ORG)



OpenStack Documentation ▾

Contents

- (index.html)
- Bare Metal service overview (get_started.html)
 - Install and configure the Bare Metal service (install.html)
 - Integration with other OpenStack services (configure-integration.html)
 - Configure the Bare Metal service for cleaning (configure-cleaning.html)
 - Configure tenant networks (configure-tenant-networks.html)
 - Enrollment (enrollment.html)
 - Enabling HTTPS ()
 - Enabling HTTPS in Swift
 - Enabling HTTPS in Image service
 - Enabling HTTPS communication between Image service and Object storage
 - Enabling HTTPS communication between Image service and Bare Metal service
 - Using Bare Metal service as a standalone service (standalone.html)
 - Enabling the configuration drive (configdrive) (configdrive.html)
 - Building or downloading a deploy ramdisk image (deploy-ramdisk.html)
 - Setup the drivers for the Bare Metal service (setup-drivers.html)
 - Advanced features (advanced.html)
 - Troubleshooting (troubleshooting.html)
 - Next steps (next-steps.html)

- OpenStack
- Projects (<http://openstack.org/projects/>)
 - OpenStack Security (<http://openstack.org/projects/openstack-security/>)
 - Common Questions (<http://openstack.org/projects/openstack-faq/>)
 - Blog (<http://openstack.org/blog/>)
 - News (<http://openstack.org/news/>)

Community