

# Configure Security

## Contents:

- *Harden Trifacta node*
    - *User Access*
    - *Client Security*
    - *Enable SSL*
    - *Session timeouts*
    - *Access logs*
  - *Databases*
    - *SSL for Trifacta databases*
    - *Configure Secure Access for Relational Connections*
  - *Enhance Cluster Security*
    - *Configure for secure impersonation*
    - *Configure for Kerberos Integration*
    - *Configure for KMS*
    - *Enable SSL for HttpFS*
    - *Enable SSL for Hive*
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This section provides an overview of security features of the Trifacta® platform and links to configuration workflows for each area.

## Harden Trifacta node

The following sections cover how to enhance security for the Trifacta node.

### User Access

#### Configure Password Criteria

By default, the Trifacta application enforces very limited requirements on password strength.

**By default, a password can be a single character with no other requirements. Please configure password requirements.**

For more information, see *Configure Password Criteria*.

#### Change Admin Password

**As soon as the Trifacta platform is operational, you should change the password on the admin account.**

See *Change Admin Password*.

### Single Sign-On

The Trifacta platform can integrate with Active Directory at the KDC/Kerberos level or directory level.

**NOTE:** SSO integration requires set up of an Apache server as a reverse proxy. Instructions are provided in the link below.

See *Configure SSO for AD-LDAP*.

### Disable User Self-Register

Whether you use SSO or not, you should consider disabling user self-registration. When self-registration is disabled, an admin must provision individual users. See *Configure User Self-Registration*.

### Application Timeouts

As needed, you can review and modify various application timeouts, which may need modification to meet your enterprise standards. For more information, see *Configure Application Limits*.

## Client Security

### Enable HTTP Strict-Transport security headers

HTTP Strict-Transport security headers force web browsers to use secure communications when interacting with the server and prevent any communications over insecure HTTP protocol.

#### Steps:

1. You can apply this change through the *Admin Settings Page* (recommended) or `trifacta-conf.json`.  
For more information, see *Platform Configuration Methods*.
2. Set the following setting to true:

```
"proxy.securityHeaders.httpsHeaders": true,
```

3. Save changes and restart the platform.

### Enable Secure cookies

The web application requires use of cookies. Set the following flag to ensure use of secure cookies.

#### Steps:

1. You can apply this change through the *Admin Settings Page* (recommended) or `trifacta-conf.json`.  
For more information, see *Platform Configuration Methods*.
2. Set the following setting to true:

```
"webapp.session.cookieSecureFlag": true,
```

3. Save changes and restart the platform.

## Enable SSL

### Deploy Platform SSL Certificate

To enable HTTPS communications with the web application of the Trifacta platform, you must create and install an SSL certificate for use by the platform.

**NOTE:** After you have deployed an SSL certificate, you can enable secure headers and secure cookies to be used by the web application.

See *Install SSL Certificate*.

### SSL for SMTP Server

If the platform is integrated with an SMTP email server, by default it assumes that the server supports SSL. If not, this capability must be disabled.

**NOTE:** Access to SMTP server is required for password reset communications.

See *Enable SMTP Email Server Integration*.

### Session timeouts

For more information on these parameters, see *Configure Application Limits*.

### Access logs

For some access logs, you can configure the fields that are included, which permits you to remove sensitive information like IP addresses. For more information, see *Configure Logging for Services*.

## Databases

### SSL for Trifacta databases

You can apply SSL secure access for connections to the Trifacta databases. For more information, see *Enable SSL for Databases*.

### Configure Secure Access for Relational Connections

If you are enabling connections to relational databases, you must create and deploy a key file containing the credentials to use for your JDBC sources. These credentials are then used for encrypted access.

**NOTE:** Encrypted authentication with your JDBC resources is required.

- For more information on enablement, see *Enable Relational Connections*.
- For more information on security, see *Configure Security for Relational Connections*.

## Enhance Cluster Security

These options security options enhance the security of communications between the Trifacta node and the integrated cluster.

### Configure for secure impersonation

**Secure impersonation** enables users to securely access the Hadoop cluster through a dedicated user or set of users, which enables use of cluster security features and permissions structures.

**NOTE:** Secure impersonation requires Kerberos applied to the cluster.

See *Configure for Secure Impersonation*.

## Configure for Kerberos Integration

If user access on your Hadoop cluster is secured via Kerberos, you can configure the platform to leverage this cluster security feature.

See *Configure for Kerberos Integration*.

## Configure for KMS

Hadoop supports the use of encrypted transport to and from the cluster KMS system. Depending on the software distribution, configuration steps may vary.

**NOTE:** If KMS is enabled on the cluster, you must configure KMS for the Trifacta platform regardless of other security features enabled on the cluster.

See *Configure for KMS*.

## Enable SSL for HttpFS

Optionally, you can enable SSL connections between the Trifacta platform and the cluster's instance of HttpFS. See *Enable HttpFS*.

## Enable SSL for Hive

You can configure SSL access to Hive. See *Configure for Hive*.