

## Lab: Monitoring database connection usage

Jira provides a view of its database connection usage. This provides information on the activity of the connection pool, as well as the frequency of reads/writes to the database. You can use this information to tune your database connections for better performance.

The instructions on this page describe how to navigate to the database connection usage information in the Jira administration console, and how to interpret the information.

**Note:** For all of the following procedures, you must be logged in as a user with the Jira Administrators global permission.

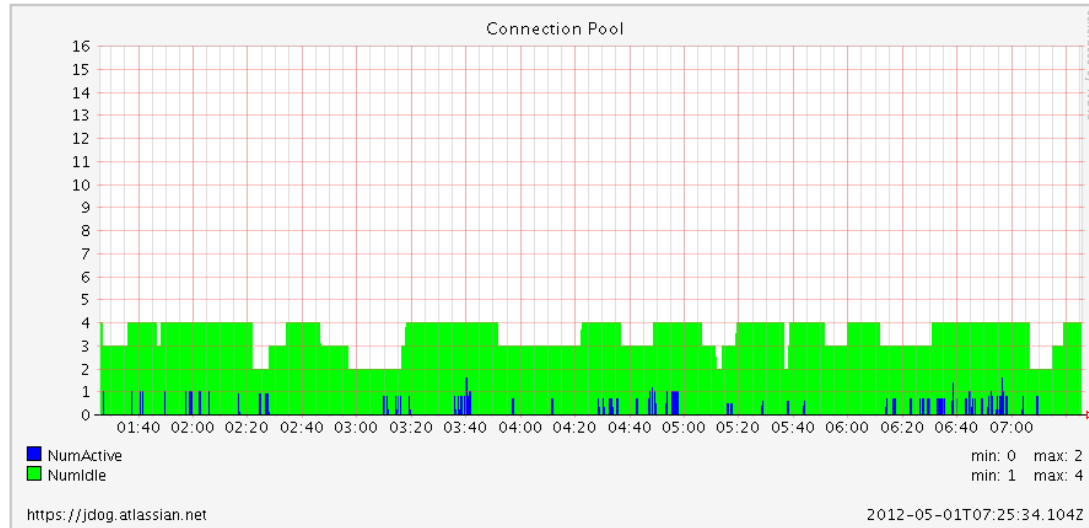
### Accessing the Database Monitoring page

1. Choose **Administration** > **System**.
2. Select **Database Monitoring**, which can be found under **System support** to display the Database Monitoring page.

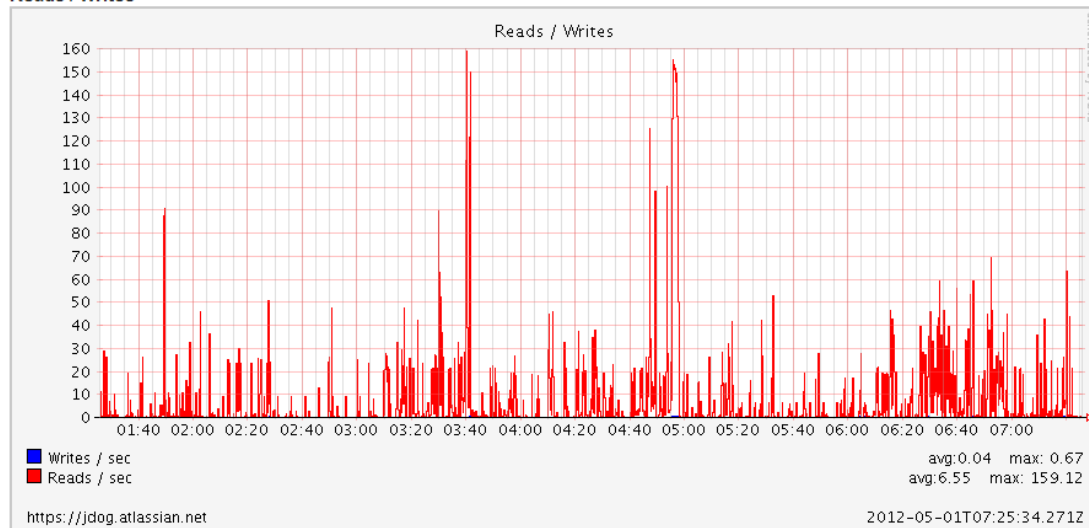
## Database Monitoring

This page allows you to monitor JIRA's database connection usage. You can use this information to tune the size of JIRA's connection pool and to diagnose performance problems. See [Connecting JIRA to a Database](#) for more info.

### Connection Pool



### Reads / Writes



## Interpreting the database monitoring graphs

### Connection Pool graph

The 'Connection Pool' graph shows the activity in the connection pool for the last 6 hours.

- This graph shows the number of active and idle connections, as well as the maximum and minimum for the period.
- The scale of the vertical axis is equal to the maximum number of connections.
- The readings are averages over a period of 5 minutes.

This information can help you to optimize database connection usage. For example, if the number of active connections is consistently or frequently near to the maximum available, then you may need to raise the maximum

connections available in the pool. Conversely, if the number of active connections is consistently low compared to the maximum available, then you may want to lower the maximum connections available in the pool.

### **Reads / Writes graph**

The 'Reads / Writes' graph shows the frequency of reads and writes to the database over a period of time. It can be helpful to correlate database usage with connection pool usage. Whenever Jira needs to access (i.e. read from or write to) the database, a database connection is required. If there are regular spikes in the reads / writes, you may need to consider raising the maximum connections available in the pool.