ownership and permissions if necessary using chown, chmod, or similar commands, so that the objects are accessible to the running server.

Example command line for offline migration between two keyring plugins (enter the command on a single line):

```
mysqld --defaults-file=/usr/local/mysql/etc/my.cnf
 --keyring-migration-source=keyring_file.so
 --keyring-migration-destination=keyring_encrypted_file.so
 --keyring_encrypted_file_password=password
```

Example command line for online migration between two keyring plugins:

```
mysqld --defaults-file=/usr/local/mysql/etc/my.cnf
--keyring-migration-source=keyring_file.so
--keyring-migration-destination=keyring_encrypted_file.so
--keyring_encrypted_file_password=password
--keyring-migration-host=127.0.0.1
--keyring-migration-user=root
--keyring-migration-password=root_password
```

To perform a migration when the destination is a keyring component rather than a keyring plugin, specify the --keyring-migration-to-component option, and name the component as the value of the --keyring-migration-destination option.

Example command line for offline migration from a keyring plugin to a keyring component:

```
mysqld --defaults-file=/usr/local/mysql/etc/my.cnf
 --keyring-migration-to-component
 --keyring-migration-source=keyring_file.so
 --keyring-migration-destination=component_keyring_encrypted_file.so
```

Notice that in this case, no keyring_encrypted_file_password value is specified. The password for the component data file is listed in the component configuration file.

Example command line for online migration from a keyring plugin to a keyring component:

```
mysqld --defaults-file=/usr/local/mysql/etc/my.cnf
 --keyring-migration-to-component
 --keyring-migration-source=keyring_file.so
 --keyring-migration-destination=component_keyring_encrypted_file.so
 --keyring-migration-host=127.0.0.1
 --keyring-migration-user=root
 --keyring-migration-password=root_password
```

The key migration server performs a migration operation as follows:

- 1. (Online migration only) Connect to the running server using the connection options.
- 2. (Online migration only) Disable keyring_operations on the running server.
- 3. Load the keyring plugin/component libraries for the source and destination keystores.
- 4. Copy keys from the source keystore to the destination.
- 5. Unload the keyring plugin/component libraries for the source and destination keystores.
- 6. (Online migration only) Enable keyring_operations on the running server.
- 7. (Online migration only) Disconnect from the running server.

If an error occurs during key migration, the destination keystore is restored to its premigration state.