# Trac Backup

**Error: Macro TracGuideToc(None) failed**

```
'NoneType' object has no attribute 'find'
```

Since Trac uses a database backend, some extra care is required to safely create a backup of a project environment. Luckily, trac-admin has a command to make backups easier: `hotcopy`.

> *Note: Trac uses the `hotcopy` nomenclature to match that of Subversion, to make it easier to remember when managing both Trac and Subversion servers.*

## Creating a Backup

To create a backup of a live TracEnvironment, simply run:

```
$ trac-admin /path/to/projenv hotcopy /path/to/backupdir
```

trac-admin will lock the database while copying.

The resulting backup directory is safe to handle using standard file-based backup tools like `tar` or `dump`/`restore`.

### Restoring a Backup

Backups are simply a copied snapshot of the entire project environment directory, including the SQLite database.

To restore an environment from a backup, simply stop the process running Trac (i.e. the Web server or tracd), restore the directory structure from the backup and restart the service.

> *Note: Automatic backup of environments that don't use SQLite as database backend is not supported at this time. As a workaround, we recommend that you stop the server, copy the environment directory, and make a backup of the database using whatever mechanism is provided by the database system.*

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See also: TracAdmin, TracEnvironment, TracGuide