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# Quickstart guide

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This topic provides collects basic commands for installed Katzenpost server components in a single convenient place. All system commands require superuser privileges.

The commands in this topic do not apply to the Katzenpost Docker image, which has its own controls. For more information, see Using the Katzenpost Docker test network [[https://katzenpost.network/docs/admin\\_guide/docker.html](https://katzenpost.network/docs/admin_guide/docker.html)].

## Systemd commands

These commands match the suggested systemd setup described in Installing Katzenpost [[https://katzenpost.network/docs/admin\\_guide/install.html](https://katzenpost.network/docs/admin_guide/install.html)].

**Table 1. Systemd control commands for Katzenpost**

Task	Command
Start a mix node.	<b>systemctl start katzenpost-mixserver</b>
Stop a mix node.	<b>systemctl stop katzenpost-mixserver</b>
Restart a mix node.	<b>systemctl restart katzenpost-mixserver</b>
Start a diectory authority node.	<b>systemctl start katzenpost-authority</b>
Stop a diectory authority node.	<b>systemctl stop katzenpost-authority</b>
Restart a diectory authority node.	<b>systemctl restart katzenpost-authority</b>

## Server CLI commands

The primary Katzenpost server binaries are **katzenpost-mixserver**, which instantiates a mix node, gateway node, or service provider depending on its configuration, and **katzenpost-authority**, which instantiates a directory authority.

**Table 2. Command options for the Katzenpost server binaries**

Task	Command
Control a mix node.	<p>Run <b>katzenpost-mixserver -h</b> for options.</p> <pre>\$ katzenpost-mixserver -h Usage of katzenpost-mixserver:   -f string     Path to the authority config file. (default "katzenpost.toml")   -g Generate the keys and exit immediately.   -v Get version info.</pre> <p>The <b>-f</b> parameter can be used to specify a customized path and filename for the authority config file, e.g. <code>etc/katzenpost-mixserver/katzenpost.toml</code>.</p>

Task	Command
	The <code>-g</code> option is used to generate the public and private signing and link keys. E directory defined by the <code>DataDir</code> parameter in <code>/etc/katzenpost-mixse</code>
Control a directory authority.	<p>Run <b>katzenpost-authority -h</b> for options.</p> <pre>\$ katzenpost-authority -h Usage of katzenpost-authority:   -f string       Path to the authority config file. (default "auth   -g Generate the keys and exit immediately.   -v Get version info.</pre> <p>The <b>-f</b> parameter can be used to specify a customized path and filename for th <code>etc/katzenpost-authority/authority.toml</code>.</p> <p>The <code>-g</code> option is used to generate the public and private signing and link keys. E directory defined by the <code>DataDir</code> parameter in <code>/etc/katzenpost-autho</code></p>

## Management interface

Katzenpost provides a management interface that is accessed through a unix domain socket. The interface supports run-time changes to nodes without requiring a restart. By default, the management interface is disabled. To enable it, change the Management section of the node's configuration file so that `Enable = true`:

```
[Management]
  Enable = true
  Path = "/node_datadir/management_sock"
```

For more information about management configuration, see the details for your node type in Components and configuration of the Katzenpost mixnet [[https://katzenpost.network/docs/admin\\_guide/components.html](https://katzenpost.network/docs/admin_guide/components.html)].

Use the socat [<https://manpages.org/socat>] command-line utility to connect to the management socket and issue commands, with the following syntax:

```
# socat unix:/node-datadir/management_sock STDOUT
```

The following commands are supported.

- QUIT - Exit the management socket session.
- SHUTDOWN - Shut down the server gracefully.
- ADD\_USER - Add a user and associate it with a public link key provided in either hexadecimal or Base64 format.

```
ADD_USER user key
```

- UPDATE\_USER - Update a user's link key.

```
UPDATE_USER user key
```

- REMOVE\_USER - Remove a user.

```
REMOVE_USER user
```

- SET\_USER\_IDENTITY - Set a user's identity key.

```
SET_USER_IDENTITY user key
```

- **REMOVE\_USER\_IDENTITY** - Remove a user's identity key. This command must be followed up with a **REMOVE\_USER** command.

`REMOVE_USER_IDENTITY user`

- **USER\_IDENTITY** - Retrieve a user's identity key.

`USER_IDENTITY user`

- **SEND\_RATE** - Set the packet rate limit to a per-minute integer value.

`SEND_RATE value`

- **SEND\_BURST** - Set the packet burst-rate limit to a per-minute integer value.

`SEND_BURST value`

## Monitoring

Katzenpost logging information can be viewed in real time with the following commands:

```
# journalctl -u katzenpost-mixserver -f -n 2000
```

or

```
# journalctl -u katzenpost-authority -f -n 2000
```

Logging levels include ERROR, WARNING, NOTICE, INFO, and DEBUG, with INFO as the default. For information about setting the log level, see the documentation for each node type in Components and configuration of the Katzenpost mixnet [[https://katzenpost.network/docs/admin\\_guide/components.html](https://katzenpost.network/docs/admin_guide/components.html)].