

Homework 4

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前情提要

HOMEWORK 3

ZFS

- Automatic Snapshot Script

□ Specification

- Usage: `./zbackup [--list | --delete] target dataset [ID] | target dataset [rotation count]`
- Example

```
$ sudo ./zbackup data/to/backup 5
```

```
$ sudo ./zbackup data/to/backup 5
```

```
$ sudo ./zbackup --list data/to/backup
```

ID	Dataset	Time
1	data/to/backup	2016-10-05 10:12:23
2	data/to/backup	2016-10-05 10:14:25

ZFS

- Automatic Snapshot Script

□ Specification

- Create (Default)
 - No more than *rotation count* snapshots per dataset
 - If no *rotation count* specified, max 20 snapshots are allowed
 - If *rotation count* has reached, delete the very first one
- List
 - List the snapshot created by zbackup
 - If dataset is specified, list only the snapshot of that dataset
 - Otherwise, list all of the snapshot
- Delete
 - Delete snapshots created by zbackup
 - Must specify dataset
 - If ID is specified, delete that one
 - Otherwise delete them all

ZFS

- Backup to google drive

- Backup your dataset to google drive
- Must compress with xz
- Must encrypt with aes256
- The filename should be [dataset/to/backup@2016-10-12.xz.enc](#)
- Download it and roll back

HOMEWORK 4

New Features

❑ zbackup

- A service that will automatically create snapshots periodically for you
- `--daemon, -d`: Background execution (Daemon mode)
- `--config, -c`: The path to the configuration file. If this option is not specified, the default value would be *`/usr/local/etc/zbackup.conf`*

New Features

❑ zbackup

- Configuration File Syntax

```
# zbackup.conf

[zroot/data]          # Dataset to be snapshot
enabled=no           # (default: yes)
policy=4x15m         # Snapshot policy

[zoot/mail]
policy=5x1d

[zroot/etc]
policy=12x1d

[zroot/home]
policy=4x1w
```

Service Management

- ❑ You need to provide a rc script that can dynamically start/stop service.
- ❑ In /etc/rc.conf
 - zbackup_enable="YES"
 - zbackup_config="/path/to/the/config/file" (Default: /usr/local/etc/zbackup.conf)
- ❑ Actions that need to be supported
 - start/stop/restart/reload
 - status/poll
 - list
- ❑ If configuration file doesn't exist, you need to show error message.
- ❑ **Deadline: 12/21 (Wed.)**