

Mutant

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So many problems...

- Temporary wifi-access (scratch-and-surf)
- Consumable resources
 - Printquota, AFS Quota
- Right-to-use limits
 - (re)set your password *once*
 - get a maximum of 2 licenses for matlab
- Right to do but not to see
 - Sponsor (not create) an account

Consumable rights

- **Mutant** is a simple system for managing RTU (Right To Use) tokens.
- **Tokens** are passed (as identifiers) to users or processes who exchange them for services.

Close but no cigar...

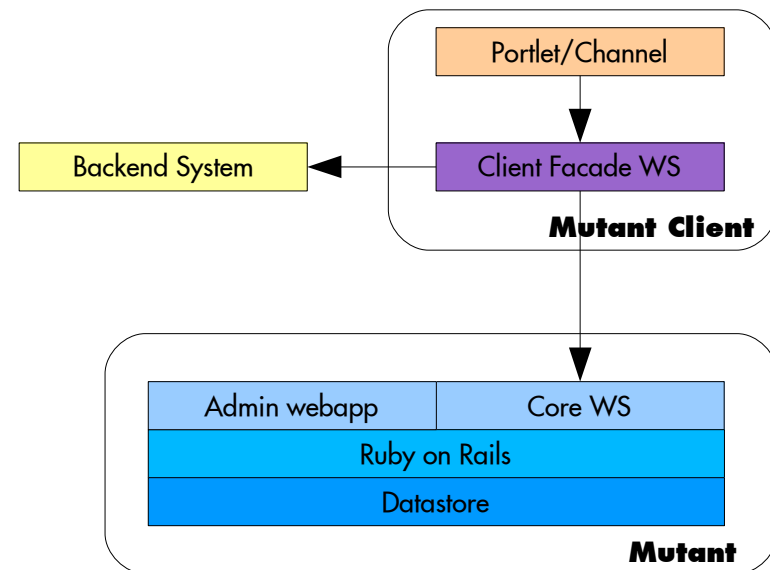
- SPOCP
 - has no concept of time or use-limits on rights, otherwise a good match
- Signet
 - same problem

A Token is...

- a unique identifier/serial
- an (optional) secret
- a (optional) value
 - *this token is worth 50 something*
- (optional) time-limits
 - may only be used this week
- (optional) usecount-limits
 - may only be used 3 times

Architecture

- Webservices-based
- Mutant only does tokens
- Clients use the facade pattern to separate business logic from mutant



Use-cases: AFS quota

- Premiss:
 - Give (liberally) quota to those who *need* it.
- Solution
 - Give all users a token for x MB of storage.
 - Publish a wallet-application in the campus portal where users can exchange tokens for quota.
 - Quota tokens can be redistributed in a work-group before they are consumed.

Use-case: wifi tokens

- Hard-copy scratch-and-sniff tickets are provisioned in Mutant as mutant tokens.
- Administrators are able to give out batches or singles.
- Administrators are *not* able to read token secrets.

Use-case: Account sponsor

- Give each staff member the right to sponsor x number of external user accounts wo also having the right to sensitive information about those users.
 - send hard-copy of token out-of-band to user
 - webb-ui used to trade proof-of-possession of token for a user-account and credentials.

Questions?

