

Authorization platform for the cloud

Hleb Rubanau, LVEE 2014





✓Authentication (Who are you?)



✓Authentication (Who are you?)

✓Authorization (Are you allowed to do this?)



✓Authentication (Who are you?)

Authorization (Are you allowed to do this?)Audit (Who did this?)



- ✓ Perimeter-based security... is no more
- ✓ Scripts and services are powerful actors
- ✓ Lots of credentials to third-party services are used
- ✓ Data should be encrypted... but where keys are stored?
- ✓ Compliance requirements make it all even harder



c•njur The Authorization Challenge

Authorize these Web Services Users Code Web APIs Databases laaS Apps Services

New Frontiers of Identity

- \triangleleft Web and mobile users
- \triangleleft Cloud/PaaS consoles and APIs
- \lhd Web services, scripts, code and other "robots"

New Kinds of Assets

- \lhd Virtual machines & lightweight containers
- \lhd 3rd party and hosted services
- \lhd Widely dispersed geography

Separate appliance, which encapsulates:

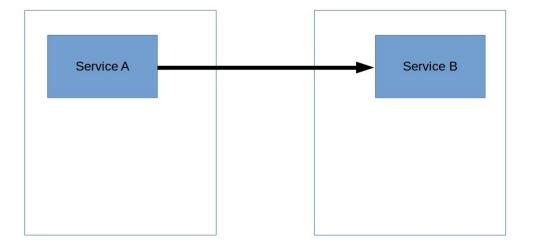
Directory of users, "robots", their roles and permissions
Encrypted access-controlled containers for sensitive data
Audit trail

Interfaces exposed:

HTTPS RESTLDAPS (partially, to fit the needs of ssh management)

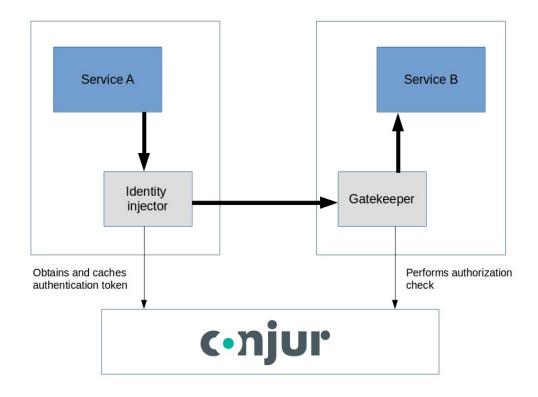


c•njur Use Case #1: Service to service authorization



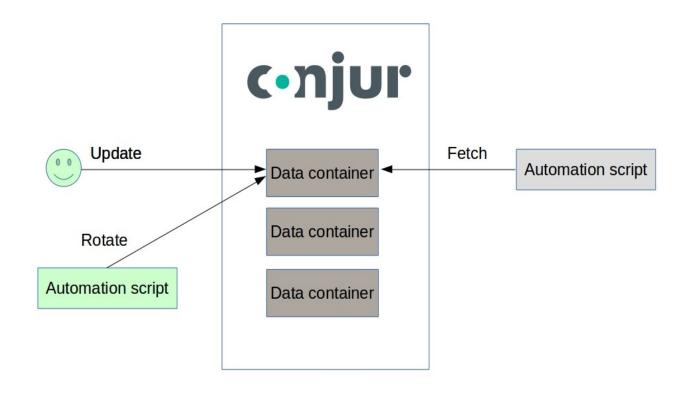


c•njur Use Case #1: Service to service authorization



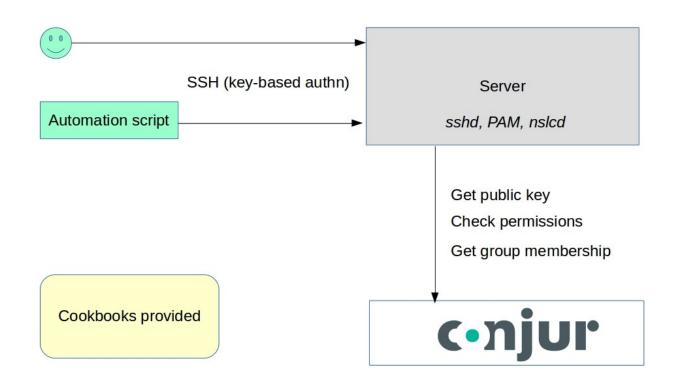


c•njur Use Case #2: Secrets management





c•njur Use Case #3: SSH access orchestration







- ✓ Command-line driven
- ✓ Fully-accessible REST API
- ✓ Client library for Ruby, more in development
- ✓ Scalable HA deployments supported
- ✓ CF recipes (cookbooks, etc.) are part of the product
- ✓ Low-level protocols: standard open-source only



✔ Postgres, Ruby, Cucumber, Rspec, Chef

- ✓ For outer world (constantly improving): recipes for Chef, Puppet, Saltstack, CloudFormation... and more in plans
- Test-driven development, Jenkins-managed CI
- ✓ Cloud-oriented
- ✓ Git just works



Massachusetts-based startup, with investments and paying customers

Considered as prospective by guys from PuppetLabs, Opscode (Chef), Netflix

Small distributed horizontal team, freelance-style collaboration

We look for smart guy (or two?) in Minsk :)





http://conjur.net

http://developer.conjur.net

hleb@conjur.net

THANK YOU!

