

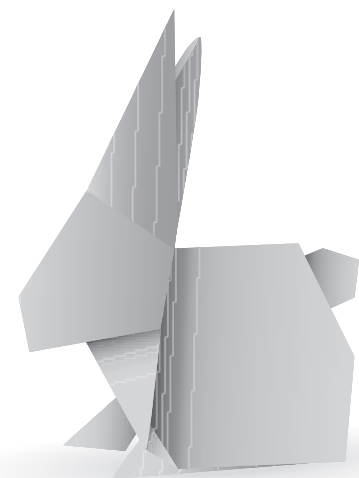
“myperl” & Perl Connector Module

Scott Hardin, 10/2015



“myperl”

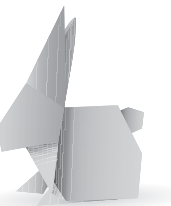
in lieu of the system perl quagmire



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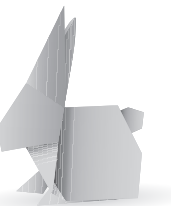
Perl Alternatives

- System Perl: Perl and CPAN modules are tailored to system administration tasks and vendor-supplied tools
- “local::lib”: Uses System Perl, but installs additional CPAN modules to separate directory
- “perlbrew”: Independent Perl, but packaging targeted for developers, not deployment in data centers
- “myperl”: Independent Perl deployed in /opt/myperl



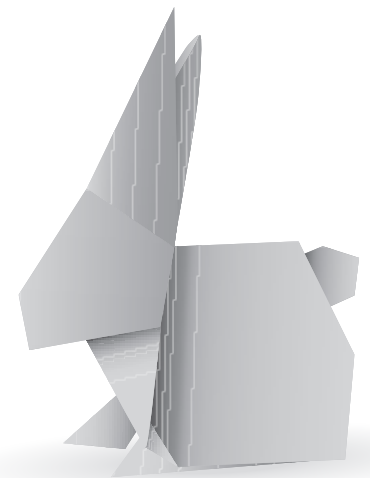
Benefits of “myperl”

- Independent from vendor Perl and CPAN
- Simplifies process for updating CPAN modules
- Simplified support for related distributions (e.g. Debian vs Ubuntu, SuSE vs RedHat)
- Use “Pinto” to pin versions for specific CPAN modules
- Debian and RPM (SLES 11) packages currently available for use by OpenXPki



Perl “Connector”

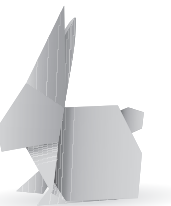
A flexible connection to a hierarchical data structure



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Perl “Connector”

- Generic connection to a data set in a hierarchical structure
- Key names are in dotted-name format (e.g: ‘root.parent.child.attr’)
- Connector objects may have different object types representing different sources of data or types of data structures

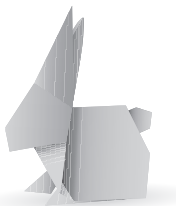


Simple Data Access

```
# Get a scalar value at the leaf of the tree
my $val = $connector->get( qw{smartcard.owners.bob} );

# Allow delimiter in get() string
my $val = $connector->get(
    [ qw{smartcard owners bob.builder} ] );

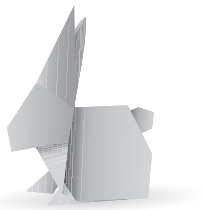
# Get a list of values at the leaf of the tree
my @vals = $connector->get_list( qw{smartcard.owners} );
```



Built-in Data Types

Direct Access to Specific Data Source Types

- Authentication::LDAP
- Authentication::Password
- Env
- File::Path
- File::Simple
- Memory
- Static



Multi (Multiple Types)

Logical View

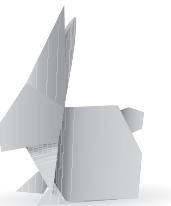
smartcards:

```
tokens:  
  token_1:  
    status: ACTIVATED  
  token_2:  
    status: DEACTIVATED
```

```
owners:  
  joe:  
    tokenid: token_1  
  bob:  
    tokenid: token_2
```

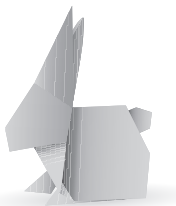
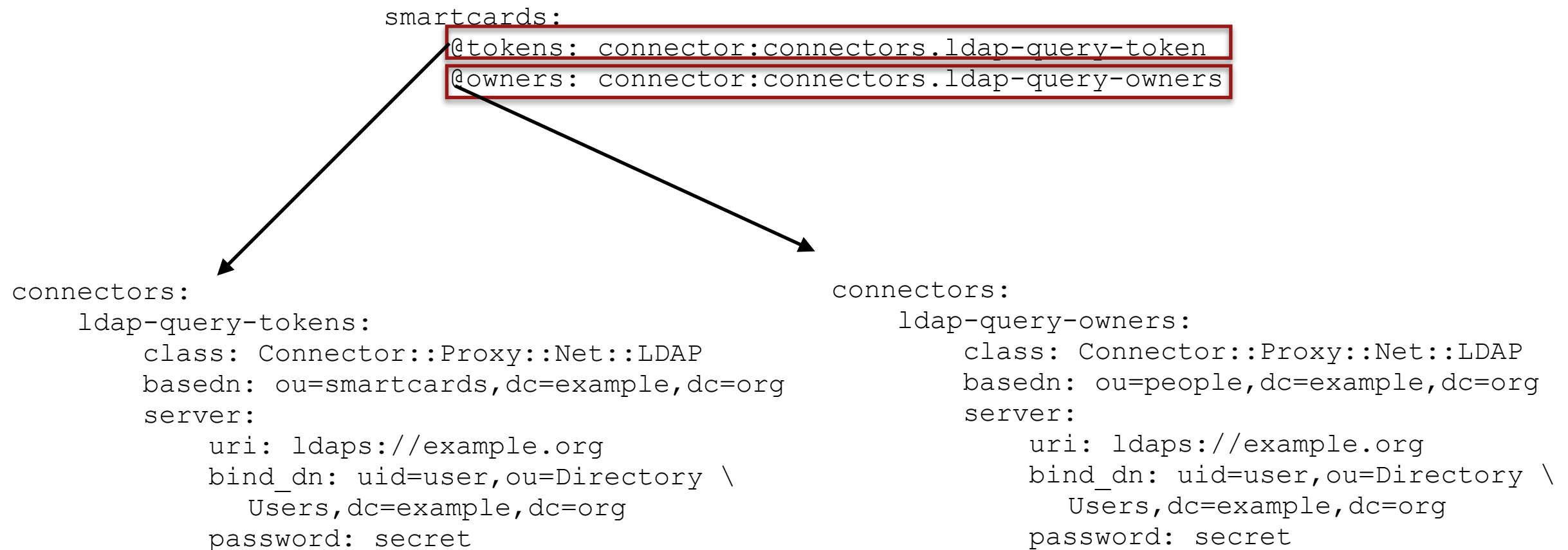
LDAP Subtree:
"tokens"

LDAP Subtree:
"owners"



Multi (Multiple Types)

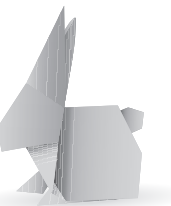
Implementation View



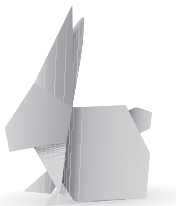
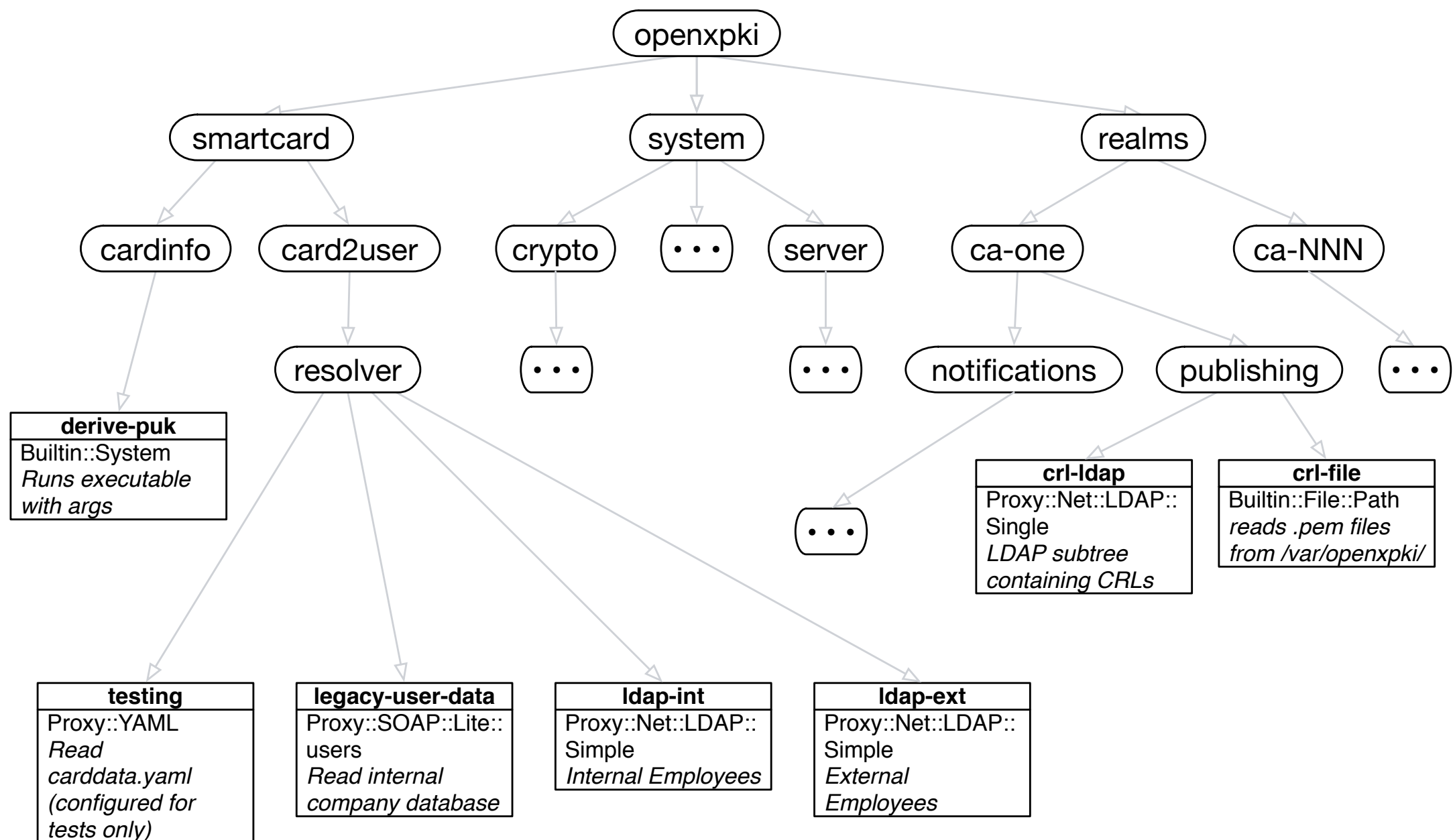
Proxy (for CPAN Modules)

Currently Supported Modules

- Config::Std
- Config::Versioned
- DBI
- LDAP
- Proc::SafeExec
- SOAP::Lite
- YAML

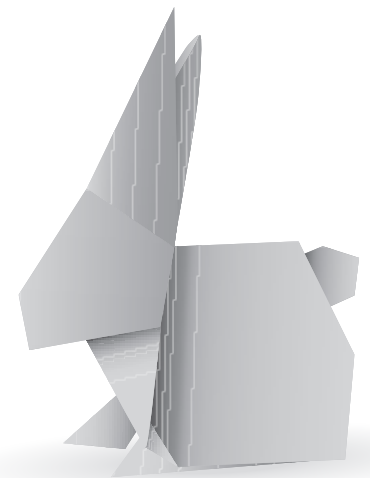


Example Configuration



“Thank you”

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