



LIKewise OPEN STATUS UPDATE (UDS-L) | 19-Nov-2009



AGENDA

<http://www.likewiseopen.org/>

Upgrade & Packaging work

Likewise Open 4.x -> 5.4

Likewise Open 5.0 -> 5.4

Likewise Open 5.4 Features

Service Manager

Configuration Repository

I/O Manager

Lsass local account database

Future Roadmap

Likewise Management Console for Linux

Likewise-CIFS

BACKGROUND & INTRODUCTIONS

Likewise Open is the umbrella project sponsored by Likewise Software designed to provide an interoperability and development platform for non-Microsoft clients existing in Microsoft OS dominated networks

License – Combination of GPLv2+ and LGPLv2.1+

Non-Likewise written components remain under their original license

MIT Krb5, OpenLDAP, sqlite, LibXML2, OpenSSL, etc...

Likewise Developers @ UDS-L

Scott Salley – All upgrade work for likewise-open in Ubuntu

Danilo Almeida – I/O Manager Core

Gerald Carter – Likewise Open & Software Engineer

UPGRADE & PACKAGING WORK

<http://ppa.launchpad.net/~likewise-open/ppa/ubuntu>

Insert Demo Here -> /cheer /clap /applause

Test cases so far (Karmic)

- Clean install of 5.4

- Existing Likewise Open 4.1 install (joined and non-joined) upgrade to 5.4

Untested so far

- Upgrade from 4.0 (Hardy) – Should not be any different than upgrade from 5.0

- Upgrade from Likewise Open 5.0 to 5.4 – Under development

PACKAGING REMAINING ITEMS/ISSUES

Finish remaining upgrade scenarios

Address sandboxed Krb5 and OpenLDAP libs

- Approximately equivalent to MIT krb5 1.8 (S4U)

- OpenLDAP libs are 2.4.6 – patches pending for Upstream/Ubuntu

Consolidated to the original packaging format

- likewise-open, likewise-open-gui

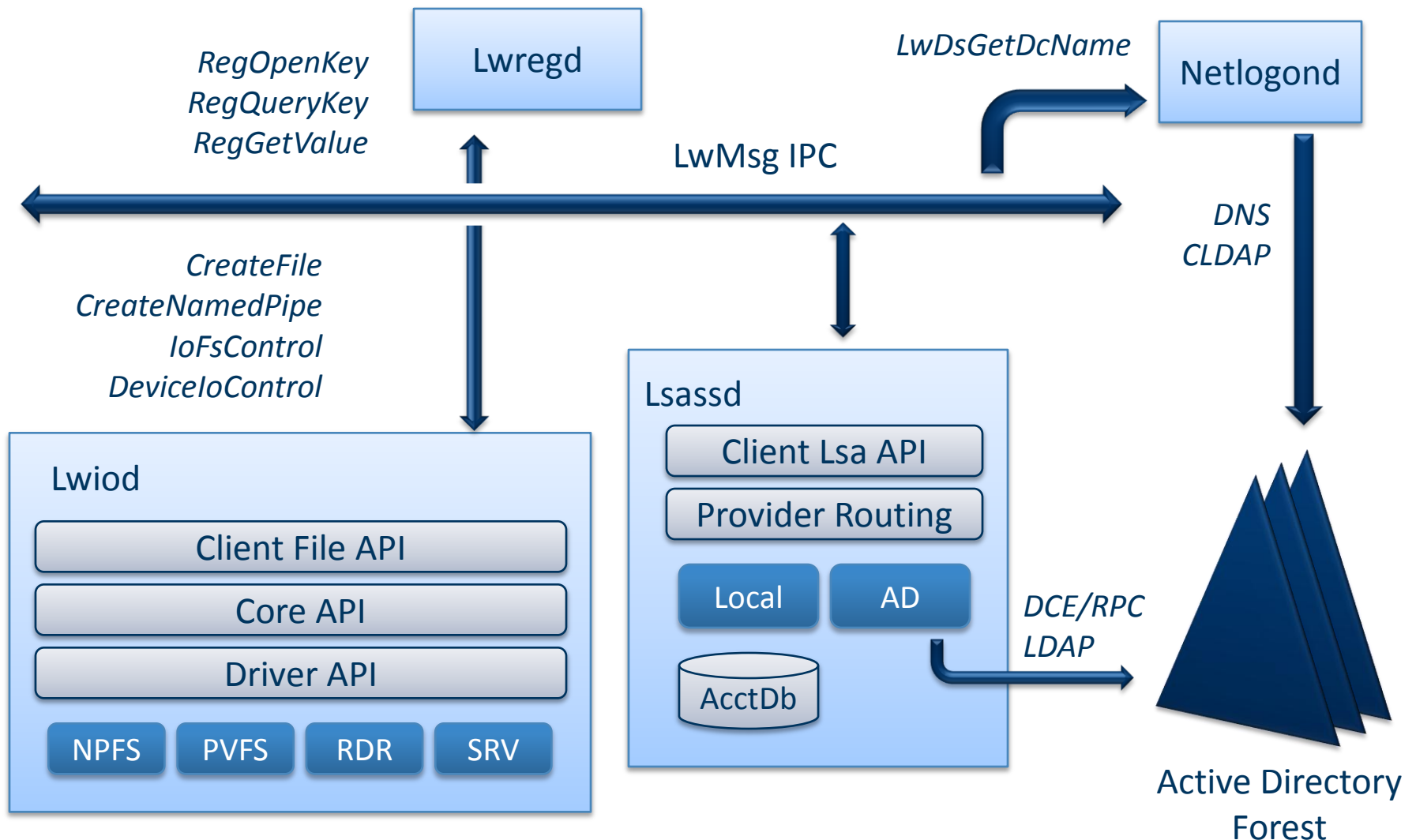
- Dropped the plethora of packages used by likewise-open5

LP likewise-open Team

- Push packaging bzd branch to LP

- Link LP likewise-open package bug database with Likewise bugzilla

LIKEWISE ECOSYSTEM



LIKEWISE 5.4 FEATURES

Likewise Service Manager

Daemon - */usr/sbin/lwsmd*

CLI administration utility - */usr/bin/lwsm*

Meta daemon for starting/stopping Likewise services

Supports dependency checking

The remaining service init scripts are written to use lwsm

/usr/bin/lwsm [stop | start | status | info]

LIKEWISE 5.4 FEATURES

Likewise Registry

Daemon - */usr/sbin/lwregd*

CLI administration utility - */usr/bin/regshell*

Single, consolidated source of service and driver configuration information

The CLI supports import/export functions

LIKEWISE 5.4 FEATURES

Likewise I/O Manager

Daemon - */usr/sbin/lwiod*

Currently supports four drivers

- rdr – SMB redirector

- npfs – Named Pipe File System

- pvfs – POSIX File System

- srv – SMBv1/v2 server (tcp/445)

LIKEWISE 5.4 FEATURES

Likewise Security Authority - Local Account database

Lsassd supports a provider based plugin architecture

- Active Directory provider

- Local provider

Local Provider contains a full user & group database

- Independent of system account databases (/etc/passwd, LDAP, NIS)

FUTURES

Likewise Management Console

Written in C# - Runs under mono

Plug-in based framework for writing administration applications

Licensed under the LGPLv2.1+

FUTURES

Likewise-CIFS

Clean room implementation of a single process, threaded SMBv1 & v2 file server

Currently provided as a technical preview in Likewise Open 5.4

BUILDING LIKewise OPEN FROM TOP-OF-TREE

Upstream convenience packaging

Simple build system for Linux & FreeBSD

Step 1: Download the source code

```
$ git clone git://git.likewiseopen.org/likewise-open
```

Step 2: Build the likewise-open components

```
$ build/mkcomp [--noincremental] [--debug] all
```

Installs all pieces to “staging/install-root/”

Step 3: Generate RPMs/DEBs (Linux only)

```
$ build/mkpkg [--debug] all
```

Creates packages in “staging/packages/”

QUESTIONS?

[HTTP://WWW.LIKEWISEOPEN.ORG/](http://www.likewiseopen.org/)

[HTTP://WWW.LAUNCHPAD.NET/~LIKEWISE-OPEN](http://www.launchpad.net/~likewise-open)

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