



ZLM Architecture

ZCC

Data Store

Object Store

Package repository

Services

Catalog

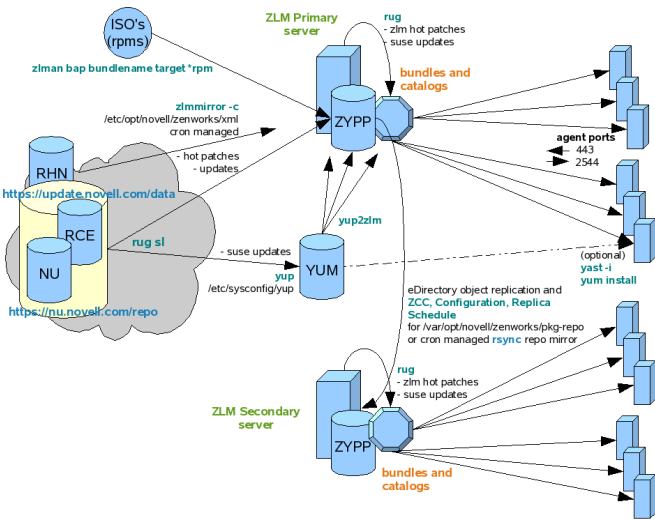
Bundle

Used ports

#Documentation site ([Backups](#))
 #ZENworks Configuration Center:
 #Web GUI: [http\(s\)://zlm](http(s)://zlm)
 #PostgreSQL (or Oracle), scheduler data,
 #Package descr & invent.(only on Primary)
 #Use a DB cluster for HA or [see link](#)
 #eDirectory (Install a Secondary for HA)
 #/var/opt/novell/zenworks/pkg-repo
 #Copy to sec by rsync (unsupported) or by
 #ZCC, Configuration, Schedule (supported)
 #e.g. PXE-boot, TFTP, ...
 #Repo with optional RPM(s) in bundles
 #Repo with RPM(s), mandatory option

#Agent: out: 443, in: 2544 (tickle port),
 #(vnc 5950,5951)
 #Srv listen: 80,443,1229,2544,5506,8089
 #edir: 524, 10389, 10636, 421, 8008, 8010
 #db (5432 postgres); (ntp 123), ssh 22
 #pxe 111,998,13331,dhcp 67,68,4011,tftp 69

ZLM managed servers rug managed devices



Managed devices

- #SLES9 SP3
- #OES v1 SP2
- #NLD9 SP3
- #RHEL/AS v3 and 4, 5
- #SLES10/SLED10

#Max. e.g. 1,000 devices per server
 #x86, x86-64
 #x86 (ZLM server 6.6.2 only!)
 #x86, x86-64
 #x86, x86-64, RHEL/AS 32 bit in 7.2 IRI
 #x86, x86-64; SPI since ZLM 7.2 IRI;
 #PPC & IPF & zSeries: packaging only
 #Install zlm agent, first time (see --help)
 #Show service list
 #Show bundle list
 #Unregister a device (service-delete)

Patch the ZLM software

zlm-config --restart

rug restart --force

ZLM server

/etc/init.d/novell<tab><tab>

#Send mail to: zenfeedback@novell.com
 #Read the automated reply
 #Restart services after patching, e.g.
 #via bundle post script
 #Restart agent after patching (post script)
 #Former Red Carpet Enterprise
 #Checkout back end daemons (status)

```
/etc/init.d/ndsd status
http(s)://zlm
vi /var/opt/novell/zenworks/www/tomcat/base/webapps/zenworks/WEB-INF/config.xml
<setting id="timeout">300</setting>
zlm<tab><tab>
zlmman --help
```

#eDirectory
 #Start GUI. Change timeout from 30 to:
 #Run /etc/init.d/novell-zenserver restart
 #Show Admin commands
 #CLI Admin interface, man zlmman, e.g.:

Create Distro Catalogs

```
zlmman bap /path/bundle-name os-target *.rpm
vi .zlmmanrc
-U Administrator -P nov3ll
```

#Import all DVD dir.: i586, i686, noarch...
 #Add zlmman user credentials in ~

ZLM Mirroring

yup2zlm

<http://www.novell.com/cool-solutions/appnote/19124.html>
http://software.opensuse.org/download/home:/mge1512/SLE_10/noarch/

#Advanced example:
 #Supported cmds in unsupported script:

#Mirror from NU, RedHat Network, ZLM, YOU, YUM, Dell UP:
 zlmmirror conf-generate cnf.xml #Create template file for mirroring setup
 zlmmirror server-list-catalogs #Check remote catalogs slc or bundles slb
 zlmmirror mirror [-c file.xml] #Test: --dryrun --verbose or -n
 zlmmirror mirror [-c file.xml] #Default is zlmmirror.xml
 echo mypassword | recode ../b64 #Encrypt password for the xml file, e.g.:

```
vi /etc/opt/novell/zenworks/zlmmirror.xml
<ZLMMirrorConf>
<Session>
<RemoteServer>
<Base>https://nu.novell.com/repo</Base>
<Proxy></Proxy>
<Type>rce</Type>
<SystemID></SystemID>
<User>ceb85616-cl42-xxxx-a8dd-933748a30e1b</User>
<Password>e2d135cb-f143-xxxx-bbd4-39732fa44b52</Password>
</RemoteServer>
<LocalServer>
<Base></Base>
<Type>zlm</Type>
<User>Administrator</User>
<Password>bXlWvXNzd29yZAo=</Password>
</LocalServer>
<CatalogConf>
<Name>nld-9-i586-sp2</Name>
<LocalName>nld-9-i586-sp2</LocalName>
<Folder></Folder>
<Target>nld-9-i586</Target>
<ExcludeTarget></ExcludeTarget>
<Bundle></Bundle>
<ExcludeBundle></ExcludeBundle>
<Package>lib.*</Package>
<ExcludePackage></ExcludePackage>
</CatalogConf>
</Session>
</ZLMMirrorConf>
```

#Four (4) zlmirror.xml fields:
 #Base Path to the server you want to mirror, e.g.:
 ZLM: https://server
 RCE: https://server/path
 YAST: http(s)://server/path or ftp://server/path

