

```

      dF      @88>      z`      ^%      S
      '88bu.  %8P      <k      :8
      '*88888bu  +@8Ned8"  :888000
      ^"*8888N  +@88u  +@^%8888"  -*8888888
      <888'888k  beWE "888L  '888€`  x88:  `)\8b.  8888
      9888 'Y"  888€ 888€ 888€ 8888N=*8888 8888
      9888      888€ 888€ 888€ %8" R88 8888
      9888      888€ 888F 888€ @8Wou 9% +8888Lu=
      ?8888u+./ +888N.+888 888% +888888P` ^%888*
      "8888P'  `""888*""  R888" ` ^"F  'Y"
      "p'      ""      ""

```

next generation configuration management

cdist 4.x preview @ Linux Erfa // SFS

Warning

This presentation may change your views on Linux Configuration Management dramatically.

cdist: next generation configuration management

Secure (SSH)

Push based

Good
documentation

Proven
Technologies

Scalable

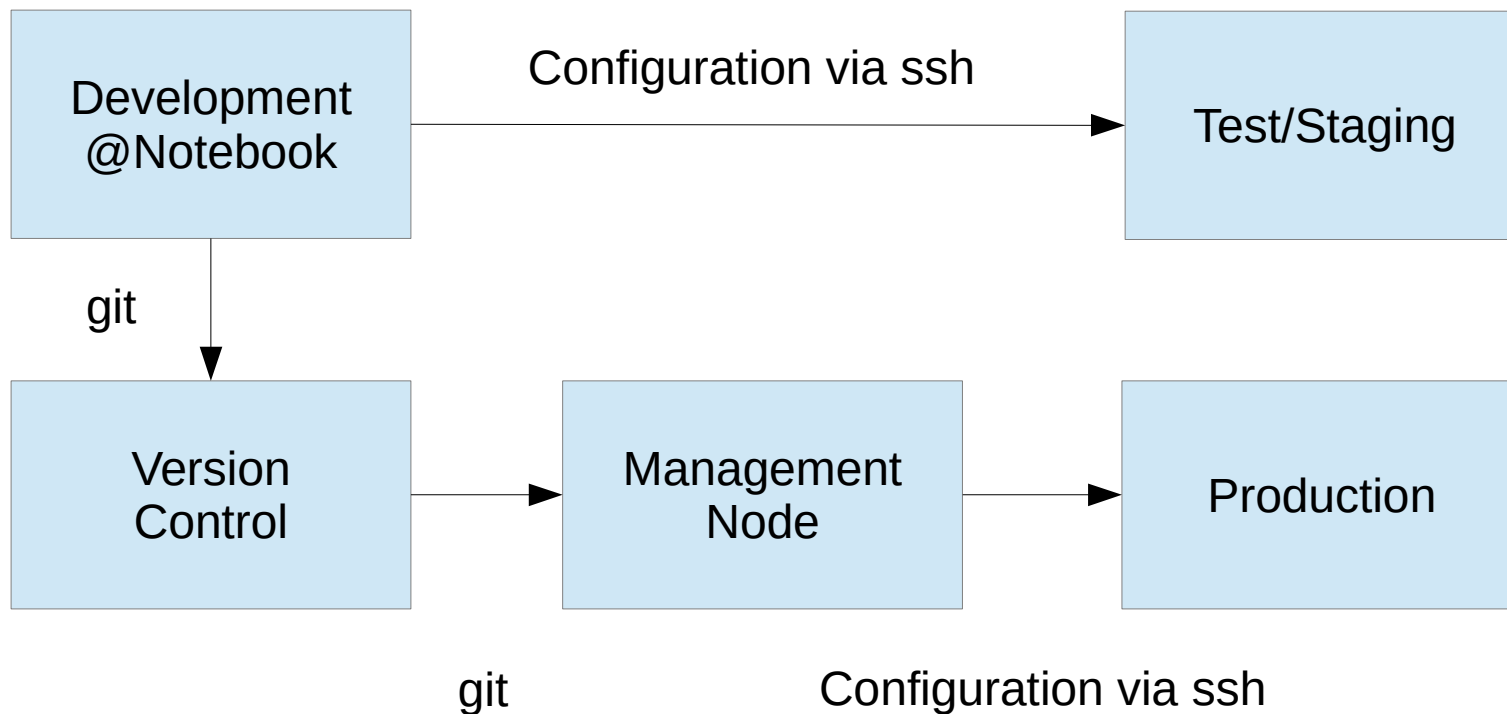
Free and
Open Source

Shell Script

KISS

Zero
Dependency

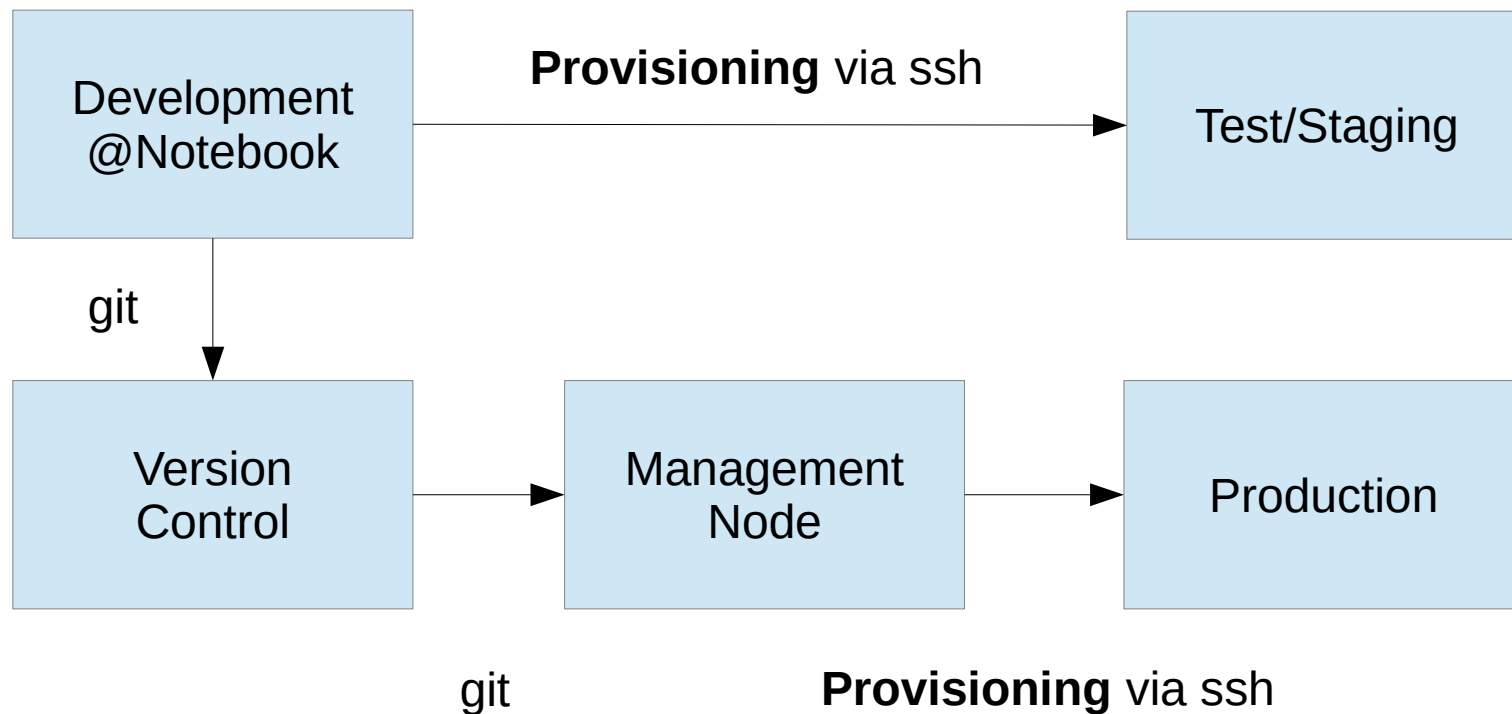
A typical cdist workflow



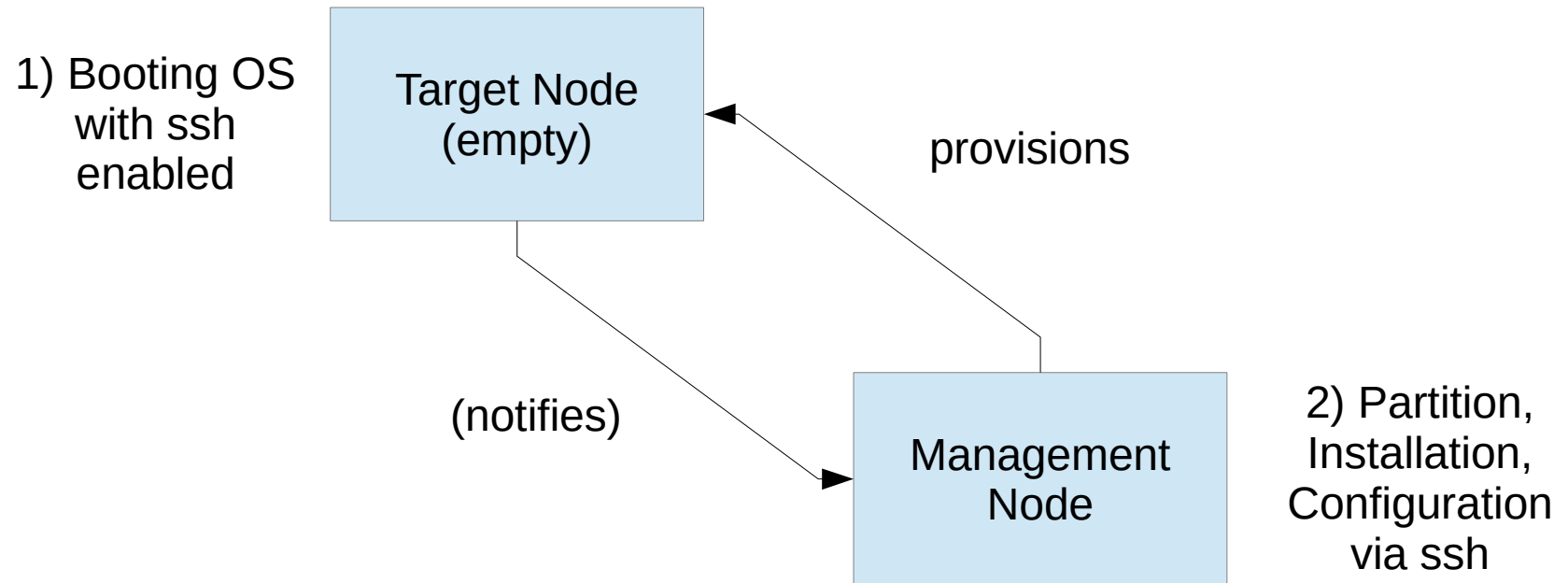
Configuration

A configuration is set of parameters with values that describes a target state.

cdist 4.x: Provisioning



How Provisioning Works



Important Bits for Provisioning

- One configuration
 - Pre-OS / OS selection
 - And all Services
- One way for all Operating Systems
- Base System Installation
- New types that run only during provisioning
 - Partitioning
 - Formatting disks
- Boot into something with ssh enabled
 - PXE, USB, CD, Floppy

One location for all configurations

cdist 4.x is the first configuration management to store all all parameters of your machines. (*)

(*) No cobbler, FAI, Preseed, Kickstart required.

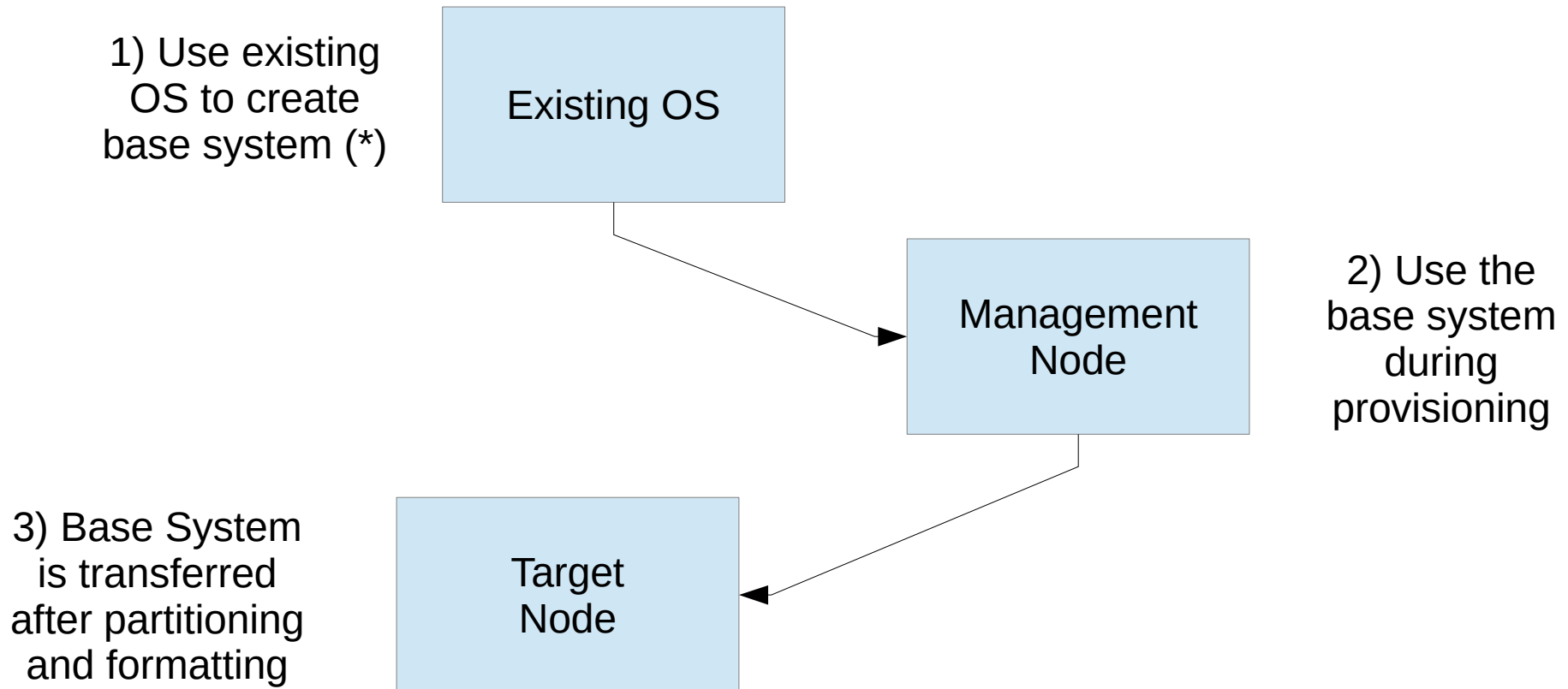
One way for all Operating Systems

cdist 4.x allows you to install any Linux distribution the same way.

There is no difference to install Debian, SuSE, Redhat, CentOS, Archlinux or Slackware.

Not anymore

cdist 4.x: Base System



(*) The base system is usually stored in a tar file.

cdist 4.0: Install Types

- Are built the same way as **config** types
- Have dependencies
 - First clean partition table
 - Then partition
 - Then format
 - Then install base system
 - (optional: configure the base system)

cdist 4.0: PreOS

- General Purpose OS
- Based on random Linux distribution (*)
- Contains just enough tools to do the job
 - Including Debugging
- Bootable via
 - PXE
 - USB
 - CD

(*) Random is something like Tinylinux / Debian

Development Status

- PreOS support in branches
 - 4.0-pre-not-stable
 - preos
- Install support in branches
 - 4.0-pre-not-stable
 - install_integration
- Significant changes may occur before 4.0 release

cdist 4.x+: More to come

- Provisioning
- PreOS
- Sudo for remote actions (copy, exec)
- Any OS (including Cisco Hardware)
- Performance improvements
- Configuration History & Rollback
- Configuration as a Service Webapp

A side note

We are looking for sponsors and investors

Contact

- FolloTak to us @ irc://irc.freenode.net/#cstar
- w us on Twitter: @NicoSchottelius @ungleich
- Tak to us @ irc://irc.freenode.net/#cstar
- Discuss @ cdist@l.schottelius.org
- Develop @ <http://github.com/telmich/cdist>
- Get in touch @ cdi.st@ungleich.ch
- See what we do @ <http://www.ungleich.ch>