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UNIX Systems Installation and Administration with sue and cfengine

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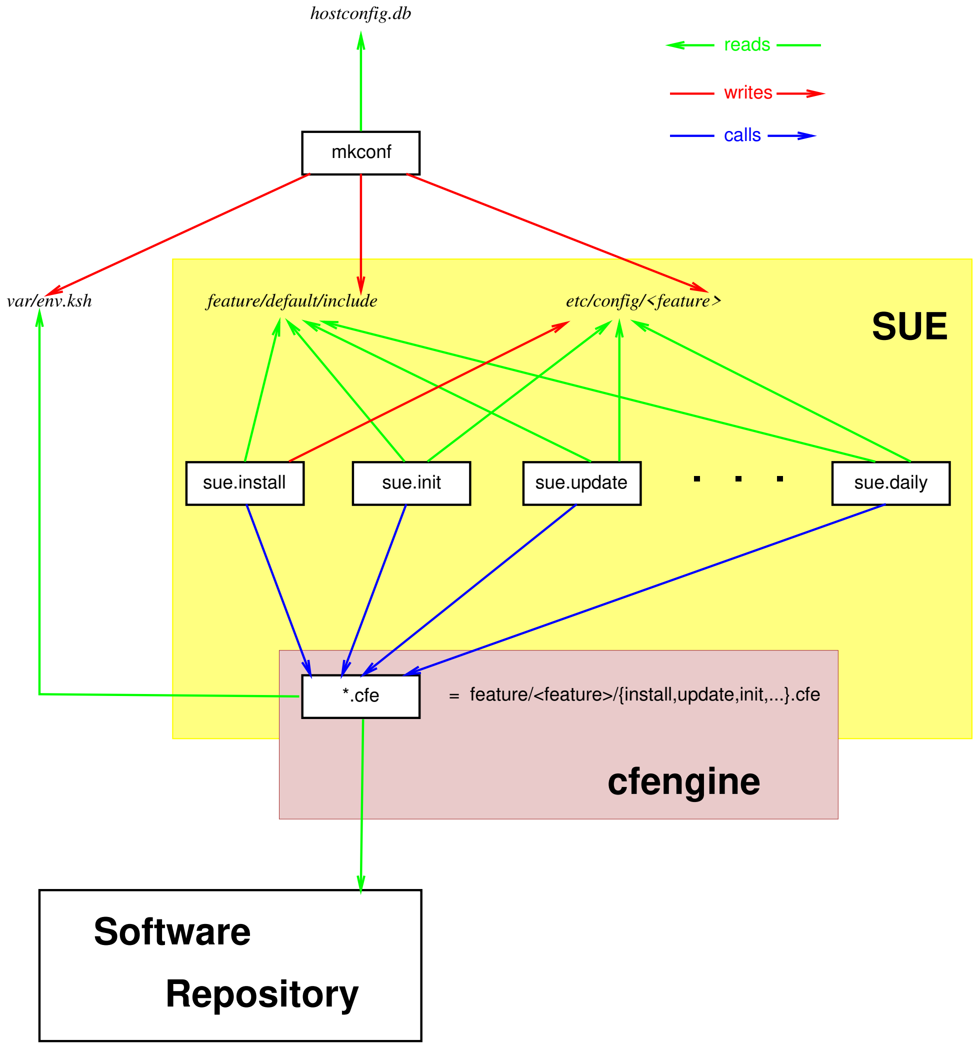
Overall structure



How sue works

Parts of sue:

1. code developement:
   Directories `src`, `test`, `new`, `prod`
   Tools for copying from one level to the next
   config file for "who is responsible for what on which platform"

2. the control programs:
   `sue.install`, `sue.update`, `sue.init`,
   `sue.daily`, `sue.weekly`, `sue.monthly`

3. the software installation scripts:
   `feature/xntp/{install,update,init,daily,weekly,monthly}`
   using perl macros like: `&check::dir()`, `&check::link()`, `&check::file()`

How cfengine works

the software installation scripts:

```
control:
        # what should be done:
        actionsequence = { copy editfiles links }

editfiles:
        aix|hpux10.Monday::
          # Do file editing on AIX or HP-UX10 at mondays
copy:
        any.Hr04.Min30::
          # copy files on all machines only at 04:30h
links:
        any.install::
          # Do linking only if "install" is defined
```

Host Configuration Database

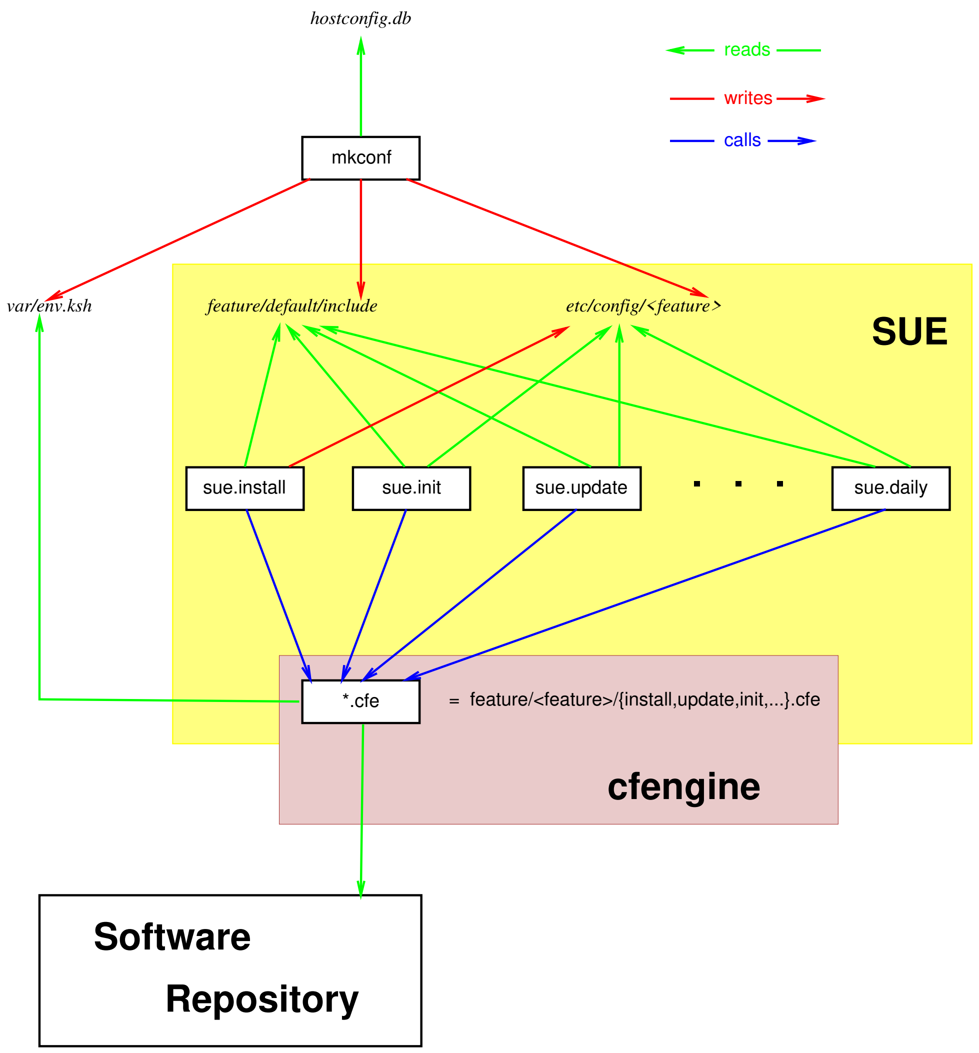
Hierarchical approach, plain ASCII file

```
BeginGroup ALL
        Feature afs_client
        Feature afs_software
        Feature kerberos
        Env FTP_VERSION="v2.4.2-beta-18"
EndGroup ALL

BeginGroup SunOS5
        Default ALL
        Env OWNER="root"
        Env GROUP="sys"
EndGroup SunOS5
```

Host Configuration Database (cont'd.)

```
BeginGroup SunOS5.6
        Default SunOS5
        Env SYSNAME="sun4x_56"
        Env OS_ARCH="SunOS_5.6_sun4"
EndGroup SunOS5.6

BeginHost athene
        Default SunOS5.5
        Env FTP_VERSION="v2.4.2-beta-15"
EndHost athene
```

How it works together



Status of the project

- Tools are working
- Tools are working together
- some cfengine scripts are working in this new setting
- some test machines (Solaris, Linux, AIX) run it every night

How it will continue

Next steps

- writing/updating cfengine scripts
- make it run every night on each machine