



Puppet on the desktop @ CERN

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for IT-CM-LCS

Linux certification committee meeting

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Locmap

Roadmap

Questions

What is *locmap* ?

Goal : Configure reliably CERN CentOS 7 computers outside of the datacentre.

developed by Aris Boutselis.

- Replace lcm tools (quattor)
- masterless puppet/facter/hiera under the hood
- Allows to reuse datacentre puppet modules
- Extra modules by user communities

What *locmap* is not.

- No SLC5 / SLC6 support.
- Not following datacentre module development pace, rebase when meaningful changes are available.
- No plan to upgrade systematically puppet between minor CC7 release. (Targeting 3.8.X)
- Extra modules need to be of general use for inclusion in base set.

Modules status

```
[toulevey@crabe ~]$ sudo locmap --list
[sudo] password for toulevey:

[Available Modules]

Module name : sudo [enabled]
Module name : sendmail [enabled]
Module name : cernbox [disabled]
Module name : ntp [enabled]
Module name : kerberos [enabled]
Module name : cvmfs [disabled]
Module name : ssh [enabled]
Module name : nscd [enabled]
Module name : eosclient [enabled]
Module name : afs [enabled]

[toulevey@crabe ~]$
```

- Discussion ongoing for what new module will be enabled in standard installation for next release 7.3.
- cvmfs / eosclient in good shape.
- cernbox likely after 7.3
- nscd -> sssd considered after 7.3 and module cleanup.

Roadmap

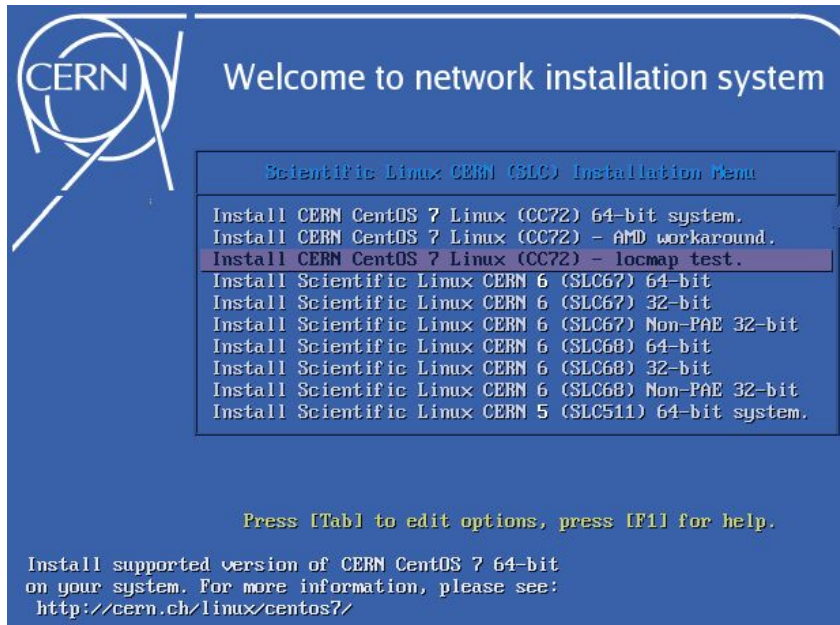
Release beta test for users at next ITUM
(2016-10-03).

- CC7.2 base tree respin with the new tools.
- At first boot you can select eos/cvmfs/afs.

If no blocker, release CERN CentOS 7.3
(2016-12-XX) with locmap and obsolete
lcm/ncm tools.

Testing *locmap*

Docs & code : <https://gitlab.cern.ch/linuxsupport/locmap>



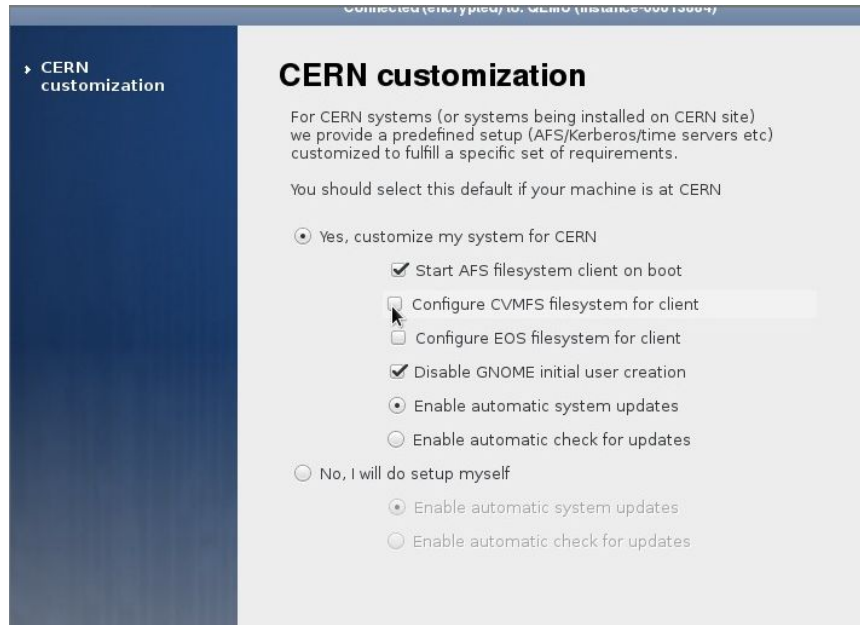
The screenshot shows a blue terminal window with the CERN logo in the top left. The title is "Welcome to network installation system". Below it is a "Scientific Linux CERN (SLC) Installation Menu" with a list of installation options. The option "Install CERN CentOS 7 Linux (CC72) - locmap test." is highlighted in purple. At the bottom, there are instructions to press [Tab] to edit options and [F1] for help, and a URL for more information: <http://cern.ch/linux/centos7/>.

Scientific Linux CERN (SLC) Installation Menu

- Install CERN CentOS 7 Linux (CC72) 64-bit system.
- Install CERN CentOS 7 Linux (CC72) - AMD workaround.
- Install CERN CentOS 7 Linux (CC72) - locmap test.**
- Install Scientific Linux CERN 6 (SLC67) 64-bit
- Install Scientific Linux CERN 6 (SLC67) 32-bit
- Install Scientific Linux CERN 6 (SLC67) Non-PAE 32-bit
- Install Scientific Linux CERN 6 (SLC68) 64-bit
- Install Scientific Linux CERN 6 (SLC68) 32-bit
- Install Scientific Linux CERN 6 (SLC68) Non-PAE 32-bit
- Install Scientific Linux CERN 5 (SLC511) 64-bit system.

Press [Tab] to edit options, press [F1] for help.

Install supported version of CERN CentOS 7 64-bit on your system. For more information, please see: <http://cern.ch/linux/centos7/>



The screenshot shows a "CERN customization" screen. It has a dark blue sidebar with the text "CERN customization". The main area is light grey and contains the title "CERN customization". Below the title is a paragraph explaining that predefined setups are provided for CERN systems. There are two radio buttons: "Yes, customize my system for CERN" (selected) and "No, I will do setup myself". Under the "Yes" option, there are several checkboxes: "Start AFS filesystem client on boot" (checked), "Configure CVMFS filesystem for client" (unchecked), "Configure EOS filesystem for client" (unchecked), and "Disable GNOME initial user creation" (checked). Under the "No" option, there are two checkboxes: "Enable automatic system updates" (unchecked) and "Enable automatic check for updates" (unchecked).

CERN customization

For CERN systems (or systems being installed on CERN site) we provide a predefined setup (AFS/Kerberos/time servers etc) customized to fulfill a specific set of requirements.

You should select this default if your machine is at CERN

Yes, customize my system for CERN

- Start AFS filesystem client on boot
- Configure CVMFS filesystem for client
- Configure EOS filesystem for client
- Disable GNOME initial user creation

No, I will do setup myself

- Enable automatic system updates
- Enable automatic check for updates



Questions

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