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SL7 Lab Exam Environment

Small Project Page for porting the Lab Exam environment to SL7. This project is now effectively complete. See [FinalProjectReport367](#).

Future / Ongoing work:

localhome

There's a residual bug affecting creation/mounting of local home directories which affects a small percentage of machines. It does not concern autofs so far as we can tell, but the pam/odjjobd-based setup to which the PCs switch on lockdown.

firewall rules

This should be reviewed following further SL7 iptables development next year. We're using a hack which uses cron to force a reconfiguration of the `iptables` component on reboot; without this `iptables` retains its previous configuration on reboot (until the next material configuration change).

lcfg-examlock component

The core script should be revisited when [Bug:910](#) is resolved.

In the future, it would be really good to be able to test this in an automated fashion.

controlling daemons during lockdown

We're using an extended script full of systemd hacks. We should review this once [Bug:910](#) is fixed, allowing [LCFG control](#) as documented.

Deterministic boot ordering is very difficult but we seem to be able to control it where it matters.

hardware lockdown rules

CD/DVD burning should be tested.

submit, backup, readonly mounts

Investigate gluster (for future).

header infrastructure

We should make more use of the exam branches to test exam releases ahead of time.

add device mount policy to component

Documented at [LabExamsProc#Storage Device Policy](#)

display manager control

Done but only by manual `killall`. Should this be a component action?

custom greeter

Branch `exams1115` shows release. We should push this out to all releases following positive feedback from user support.

We'd like to add a few more notifications and checks here as it's very useful to support.

- a "please wait" greeter while lockdown is in progress
- check that /home directories are being created?
- check that own presence is being reported
- warning if there are any additional mounts / devices
- firewall test?
- a single block "check colour" swatch for visual ID

exambackup, examrestore and "presence files"

No action required.

submit and examsubmit

No action required.

getpapers

No action required.

Feature Tests

Key to status icons: 🤔 → 😟 → 😊 → 👍

<u>ready</u>	<u>passed</u>	<u>Notes</u>	<u>Test</u>	<u>Procedure</u>
😊	😊		Lock	Homes / tmp prepared appropriately? sequence OK? greeter? logs? Services stopped?
😊	😊		getpapers	
😊	😊		exam restore	planned (including manual backup) / unplanned (pulling the plug)
😊	😊		examsubmit	
😊		n/a for Nov	Eclipse / IDEs	(including java/ipv6/firewall tests)
😊		n/a for Nov	Live exam change	
😊		n/a for Nov	Multiple concurrent exams	
😊		n/a for Nov	Multiple concurrent mount policies	
😊	😊		Firewall outbound checks	inbound / outbound / service checks
😊	😊		rsyslog	apps log ok? server receives them? timing?
😊	😊	burn test required	plugging	modes: No-plug / Readonly / Logged. Check keyboard / mouse replug OK. Check CD and DVD access. Check CD burning.
😊	😊		Reboot	Reboot while locked? Excessive Logs? Reboot with mounting blocked and r/o?
😊	😊		Unlock	Homes / tmp prepared appropriately? sequence OK? greeter? logs? Services started?
😊	😊		Whole Lab Lock/Unlock	
😊	😊	failure rate so far too high - all have been due to missing homedir bug	Stress Test	

-- [GrahamDutton](#) - 21 Oct 2015

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