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Tux Software

Hardware Migration 2007

The goal:

Be done by May 25, 2007 and ready to go live running on new hardware

- but some stuff broken

Cutover Procedure

See here for the plan.

Things to install/configure

priority	service/package	assignee	done on 36 GB disk?	tested	has DB	works live
0.0	install to new h/w	Charles/rjr	yes	yes	no	note
1	environment	bjb	yes	yes	no	yes
1	users/groups	Scott	yes	needs fixing	no	so far, so good
1	logging(syslog/logrotate)	Scott	yes	yes	no	yes
1	cron	Charles	no	note	no	
1	apt	bjb	yes	yes	no	yes
1	sudo	bjb	yes (updated to May 5)	help me	no	yes
1	networking	Charles	yes	no	no	yes
1	ippl	bjb	yes	yes	no	yes
1	dns	Scott	yes	yes	no	yes
1	ssh	Charles	yes	help me	no	yes
1	rsync	Charles	yes	no	no	
1	email (postfix)	Ian!	yes	(Rogers blocks port 25)	no	yes
2	ntp	Dmitriy	yes	no	no	
2	apache1	Ian Ward	yes	yes	no	yes
2	apache2	Ian Ward	yes	no	no	yes
2	phpwiki	Ian Ward	yes	yes	yes	yes
2	mailman	Charles	almost done	yes	sorta	not really
2	dovecot (POP/IMAP)	Scott	yes	no	?	yes
2	sql-ledger	mcr	? SqlLedgerDetails	no	yes (pg)	got login page

3	svn, svnserve, scripts	Dmitriy	yes	no	yes	yes
3	postgrey	Scott	?	no	?	
3	spamassassin	Scott	?	no	?	no

Things to disable/remove

service/package	assignee	done	tested/verified
inetd/portmap	Charles	yes	no
exim	Charles	yes	yes

Note, we had hoped to transfer all this stuff with an rsync and then fix it up after we had transfered to the new HW. However, that wasn't possible. We cannot take the configuration “as-is” and just use it - so we can consider fixing up the new system as we move stuff over.

Things that could be done include: partition on several partitions, use LVM, use RAID, use apache2 instead of apache1, have a firewall, use django to update the web site instead of editing php pages and using svn.

There are differing opinions on whether we should do these things. So, in the interest of moving forward, I'm deciding:

- 2 36 GB prepared the same way
  - 3 x 10 GB partitions (identical)
  - 1 GB partition for /boot
  - 1 partition sized (2 x memory size) for swap
  - for starters, the full filesystem will go in one of the 10 GB partitions.
  - the other partitions can be used for expansion, recover etc. as needed
- no LVM
- no RAID
- Use the 2nd disk as a “staging area”, where we can install packages and try them out before installing them on the live system. That means maybe using UML or VirtualBox and running a linux inside the live linux. Again, if we run low on space, we can wipe this drive, and mount it as more space for data. Probably we'll be upgrading the hardware before that happens but it's nice to have options.
  - UML/VirtualBox are unlikely to work with the RAM we have right now. Vserver might be an option. -IW
- apache1
  - I'll try to find out how real tux has phpwiki then -bjb
- keep the web pages the way they are till after the migration
- but we could install apache2 and django now (it's already done) and just run apache1; then when we decide to switch it will be quick (run apache2 instead of apache1). We will need to verify that mailman and phpwiki are configured properly for apache2 as well as apache1 before the cutover. We could run apache2 on a different port for testing, until we are ready to go live with it.

Going forward from here:

step	description	who	done

1	check and partition 36 GB disks HdPrep	wardi	yes
2	transfer 9 GB disk to 36 GB disk and make bootable (linux 2.6)	wardi, rjr	yes
3	put other 36 GB disk in second slot and boot to first disk (putting mirror of site on 2nd disk is low priority)	rjr	yes
4	configure all the above packages and test	see above	yes
5	go live	rgb && ??? yes	
6	install some kind of tracker trac, oclug trac	wardi	
7	firewall, backups, logwatch	???	no
8	think about getting rid of ippl	???	no
9	upgrade web site (apache2, django?, get rid of php, other improvements)	wardi, ???	yes (new site, phpwiki still there)
10	apt-get dist-upgrade	???	no
11	set up VirtualBox/UML	???	no
12	system monitoring (zabbix, munin, nagios, ???)	???	no
13	syslog-ng	???	no
14	prep the other two 36 GB hard drives	???	no

Ideas for next time we do an install/migration: tripwire (would be a lot easier if we knew ahead of time which packages are going to be installed), logwatch/logcheck, bugzilla or RequestTracker, chkrootkit

TuxHardware