Projekat Instalacije Gentoo Linux-a

na srpskom jeziku

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Sadržaj

U	vod	3	
lr	nstalacija Gentoo Linux-a4		
	Podešavanje internet konekcije	4	
	Formatiranje diska		
	Podešavanje lokalnog vremena	7	
	Skidanje stage3-tarball-a	7	
	Konfigurisanje make.conf	10	
	Root-ovanje u novom ambijentu	12	
	Selektovanje osnovnog sistemskog profila	14	
	Štelovanje sata po lokalnom vremenu	15	
	Konfigurisanje lokacije:	16	
	Konfiguracija kernela	17	
	Editovanje "fstab" fajla	18	
	Generisanje kernela	19	
	Konfigurisanje network informacija i ime domena	20	
	Podešavanje konfiguracije interneta za boot	21	
	Setovanje root pasword-a	23	
	init i boot konfigurisanje	23	
	Provera jezika tastature	23	
	Podešavanie "grub" i "bootloader-a"	26	

Uvod

Linux je operativni sistem otvorenog koda čiji je kernel napisao Linus Torvalds u C programskom jeziku koga je kasnije "comunity" razvio u današnji Linux. U današnjici, kao i pre, Linux je uvek bio besplatan, ali se koristi u mnogim granama industrije uključujući i vojnu zbog njegove adaptibilnosti, što se može videti iz raznih distro-a koje Linux operativni sistem pruža danas na tržištu.

Prvo što bi moglo da se kaže o Lunux-u je to da je besplatan, odnosno nije potrebno da se plati kako bi se koristio ovaj operativni sistem, dok ostali operativni sistemi kao što su MS-Windows ili komercijalna verzija unixa može koštati dosta novca. Drugo značenje besplatan je sloboda korišćenja Linux-a. Kada se dobije Linux takođe se dobije izvorni kôd Linuxa, tako da ga je moguće modifikovati.

On takođe uključuje mnogobrojne softverske aplikacije, programske jezike i programerske alate... Većina programa/softvera/operativnih sistema je u GNU General Public Licanse (GPL).

Veoma je važno da se odabere prava arhitektura prilikom skidanja minimal cd-a za instalaciju Gentoo Linuxa.

AMD 64 ne znači da je namenjen za AMD procesore već je tako nazvana 64 bitna arhitektura jer je AMD prvi napravio ovakav procesor dok se x86 arhitektura naziva po prvom intelovim procesoru 8086 ove arhitekture.

Pre instalacije važno je procitati uputstvo "Handbook" na oficijalnom sajtu, koji objašnjava detaljno kako uspešno instalirati Gantoo Linux.

Gentoo Linux je dostupan za više procesorskih arhitektura.

Arhitekture su vrste procesora koji podržavaju određene instrukcije. Dve najdostupnije arhitekture desktop procesora su x86 arhitektura i AMD64 arhitektura. Ali poštoji i dosta drugih arhitektura kao što su spare, ppc, mips, arm, etc...

Pre nego što se započne instalacija treba videti koje hardverske karakteristike su preporučene za uspešnu instalaciju Gentoo-a na AMD64 box-u.

Gentoo Linux je drugačiji od ostalih Linux distribucija jer se razlikuje po slobodi korisničkih podešavanja sistema po sopstvenoj želji i potrebi.

Programi se kompajliraju specijalno za svaki računar. Zbog toga je mnogo bolja optimizacija i rad sa tim aplikacijama ali je potrebno dosta više vremena da se one pripreme za rad.

Takođe tokom instalacije je moguće da se podešava Linux kernel gde je moguće podesiti sve šta će sistem da podrži po posebnim potrebama hardvera i korisnika.

Gentoo je u nekim stvarima bolji, pruža punu kontrolu ali je teži za korišćenje i zahteva duže procese. Ako korisnik nema vremena ili strpljenja za Gentoo Linux definitivno treba da koristi drugu distribuciju.

Uz Gentoo Linux se može naučiti kako radi Linux sistem, Gentoo može da nauči korisnika kako se izgrađuje softver, kako se kompajlira iz izvornog koda, kako se konfigurišu tekstualni fajlovi u Linuxu i dosta drugih stvari.

Instalacija Gentoo Linux-a

Pritiskom na taster "F1" dobijaju se više opcija za boot-ovanje. unosi se nakon toga komanda:

Gentoo

Nakon svake komande na tastaturi se potvrdjuje pritiskom na "Enter". Sada je Gentoo live u potpunosti boot-ovan.

Podešavanje internet konekcije

Prvo što treba proveriti je da li je internet konekcija uspostavljena, to se proverava komandom:

ping -c 3 www.google.com

Zato što je pretpostavljeno da je "Google" uvek aktivan sajt. Ako nema konekcije, konekcija se podešava komandom:

```
# ip link
# ip link set enp0s3 up
# ping -c 3 www.google.com
```

I ponovo se proverava konekcija, ako i to nije uspešno. Preporučuje se "handbook" sa oficijalnog sajta za rešavanje bilo kakvog problema.

Ako se u racunaru koristi network card koristi se komanda:

iwconfig enp0s3

Ako je internet konekcija uspešno podešena može da se nastavi na sledeći korak. korišćenjem sledećih komandi:

```
# ip link
# dhcpcd enp0s3
```

To šalje komande na master dheped proces i omogućava internet konekciju kada se kasnije chroot-uje u novom ambijentu.

Formatiranje diska

Prvo je potrebno kreirati particije u kojima će se smestiti Gentoo sistem. Pokretanje programa "parted" za formatiranje diska se vrši sledećom metodom:

parted -a optimal /dev/sda

Nakon toga se otvara program "parted" za manipulaciju lokalnim diskom. Sledeća komanda kreira strukturu na lokalnom disku:

(parted) mklabel gpt

komanda:

(parted) unit mib

se koristi da obeleži jedinicu koja se koristi za veličinu particija u ovom slučaju mb.

Određivanje tipa paraticije (po defaultu je obicno primary) i mogu se kreirati 4 particije ištog tipa, ako trebaju više moraju ostale biti pod tipom secundary.

Svaka particija u partedu se kreira komandom 'mkpart' uz argumente 'primary' ili 'secundary' dok se u produžetku upisuju vrednosti početka i završetka particije na lokalnom disku:

(parted) mkpart primary 13

Ime particije se dodeljuje komandom 'name' sa brojem u produžetku što označava kojoj particiji se dodeljuje ime i nakon toga ime particije.

(parted) name 1 grub

Podešavanje prve particije kao "bios grub" se izvršava komandom:

(parted) set 1 bios grub on

I nakon toga se proverava ispravnost kreiranih particija komandom:

(parted) print

Što ispisuje na ekranu sve particije po imenu sa svim potrebnim informacijama. na isti način se kreiraju i ostale particije:

```
(parted) mkpart primary 3 131 (parted) name 2 boot (parted) mkpart primary 131 -1 (parted) name 3 rootfs
```

Ako se koristi UEFI, da bi se podesilo boot-ovanje sa UEFI biosom koristi se komanda

(parted) set 2 boot on

```
rtt min/aug/max/mdev = 15.958/16.271/16.495/0.271 ms
   <mark>livecd ~ #</mark> parted -a optimal /dev/sda
GNU Parted 3.2
  using views and
Welcome to GNU Parted! Type 'help' to view a list of commands.
(parted) mklabel gpt
Warning: The existing disk label on /dev/sda will be destroyed and all data on this disk will be lost. Do you want to continue
  Warning. The existing disk to the control of the co
 (parted) Set I blos_grab on
(parted) print
Model: ATA VBOX HARDDISK (scsi)
Disk /dev/sda: 91212MiB
Sector size (logical/physical): 512B/512B
Partition Table: gpt
   Disk Flags:
    Number Start End Size
1 1.00MiB 3.00MiB 2.00MiB
                                                                                                                                                                                                                  File system Name Flags
grub bios_grub
(parted) mkpart primary 3 131
(parted) name 2 boot
(parted) mkpart primary 131 -1
(parted) name 3 rootfs
(parted) set 2 boot on
(parted) print
Model: ATA VBOX HARDDISK (scsi)
Disk /dev/sda: 91212MiB
Sector size (logical/physical): 512B/512B
Partition Table: gpt
Disk Flags:
  Disk Flags:
                                                                                                                                                                                                                                  File system Name

        Start
        End
        Size

        1.00MiB
        3.00MiB
        2.00MiB

        3.00MiB
        131MiB
        128MiB

                                                                                                                                                                                                                                                                                                                                                                   Flags
                                                                                                                                                                                                                                                                                                                grub
boot
                                                                                                                                                                                                                                                                                                                                                                 bios_grub
boot, esp
                                                    131MiB
                                                                                                        91211MiB 91080MiB
                                                                                                                                                                                                                                                                                                                 rootfs
    (parted) ^Quit
```

Iz parted-a se nakon završenog posla izlazi pritiskom na taster "q" pa zatim "enter". Nakon toga se formatira file sistem za svaku particiju komandama:

```
# mkfs.ext2 /dev/sda2
# mkfs.ext4 /dev/sda3
```

Onda se mountuju:

```
# mount /dev/sda3 /mnt/gentoo
# mkdir /mnt/Gentoo/boot
# mount /dev/sda2 /mnt/gentoo/boot
```

```
lived "#mkfs.ext2 /dev/sda2
mke2fs 1, 42.13 (17-May-2015)
Creating filesystem with 131072 1k blocks and 32768 inodes
Filesystem UUID: 91e77023-c1be-4c4b-9d50-e690102a559f
Superblock backups stored on blocks:
8193, 24577, 40961, 57345, 73729

Allocating group tables: done
Writing inode tables: done
Writing superblocks and filesystem accounting information: done

lived "#mkfs.ext2 /dev/sda3
mke2fs 1.42.13 (17-May-2015)
Creating filesystem with 2456576 4k blocks and 614400 inodes
Filesystem UUID: 34dae8c7-a729-47b6-80db-941d965d39b3
Superblock backups stored on blocks:
32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632

Allocating group tables: done
Writing inode tables: done
Writing inode tables: done
Writing superblocks and filesystem accounting information: done

livecd "# mount /dev/sda3 /mnt/gentoo
livecd "# mount /dev/sda3 /mnt/gentoo/boot
livecd "# mount /dev/sda2 /mnt/gentoo/boot
livecd "# mount /dev/sda2 /mnt/gentoo/boot
livecd "# mount /dev/sda2 /mnt/gentoo/boot
```

Podešavanje lokalnog vremena

Podešavanje se vrši komandom:

date 112916302016

Koristi se vojno odredjivanje vremena u formatu: mesec, dan, sati, minuti i godina...

```
livecd " # date 112916302016
Tue Nov 29 16:30:00 UTC 2016
livecd " # _
```

Skidanje stage3-tarball-a

Skidanje stage3-tarball paketa se vrši na sledeći način.

Prva komanda otvara /mnt/gentoo direktorijum u kom ce biti smesten "stage3" a druga komanda otvara neku vrstu web browsera u cli okruženju sa datom adresom gde se skida "stage 3".

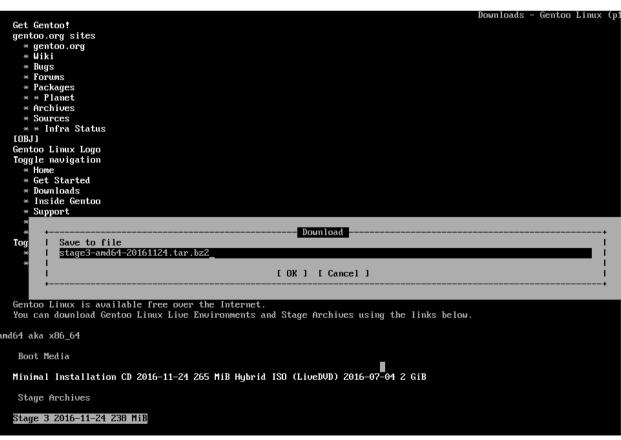
cd /mnt/gentoo

links http://www.gentoo.org/downloads/mirrors/

```
livecd ~ # cd /mnt/gentoo
livecd gentoo # links http://www.gentoo.org/downloads/mirrors/
   Get Gentoo!
  gentoo.org sites
* gentoo.org
* Wiki
     * Bugs
     * Forums
     * Packages
     * * Planet
     * Archives
     * Sources
       * Infra Status
   [OBJ]
  Gentoo Linux Logo
Toggle navigation
* Home
* Get Started
       Downloads
                                                                        Welcome
                                                                   Welcome to links!
   Togg
               To display menu, press ESC or click on the top line in window. Select Help->Manual in menu for user's
                                                                         manual.
                                                                         C OK 1
  may help speed up downloads.
  Using Source Mirrors
   The mirrors listed on this page contain installation files such as LiveCDs, Portage tree snapshots as well as distfile
  (the actual program code for our packages).
To use a source mirror for Portage downloads, add a URL from the list below to your GENTOO_MIRRORS variable in make.co
More information is available in our Wiki.
   rsync Mirrors
   We also have a
                     second type of mirrors that you use for updating your Portage tree (configured via repos.conf)
```

Treba se otvoriti "downloads" link i onda se izabrati stage 3 za skidanje u folderu u kom se nalazimo "/mnt/gentoo".





Kada bude skinut "Stage 3" onda se listaju fajlovi komandom:

1s

I raspakuje se stage3:

tar xvjpf stage3-AMD64-*.tar.bz2 --xattrs

```
livecd gentoo # ls
boot lost+found stage3-amd64-20161124.tar.bz2
livecd gentoo # tar xv.jpf stage3-amd64-20161124.tar.bz2
```

To su zapravo Linux alati drajveri i paketi programa, koji su potrebni da se izgradi kernel koji dolazi kasnije.

```
.vusr/share/man/man3/shf384.3ssl.bz2
.vusr/share/man/man3/ftem_init.3x, bz2
.vusr/share/man/man3/mg_getattr.3.bz2
.vusr/share/man/man3/mg_getattr.3.bz2
.vusr/share/man/man3/mg_getattr.3.bz2
.vusr/share/man/man3/mg_getattr.3.bz2
.vusr/share/man/man3/mg_getattr.3.bz2
.vusr/share/man/man3/mg_getattr.3.bz2
.vusr/share/man/man3/supentfd_read.3
.vusr/share/man/man3/stiperisset.3
.vusr/share/man/man3/stiperisset.3
.vusr/share/man/man3/stiperisset.3
.vusr/share/man/man3/stis_term_resized.3x.bz2
.vusr/share/man/man3/stis_term_resized.3x.bz2
.vusr/share/man/man3/stis_term_resized.3x.bz2
.vusr/share/man/man3/stis_term_resized.3x.bz2
.vusr/share/man/man3/stis_term_resized.3x.bz2
.vusr/share/man/man3/stis_term_resized.3x.bz2
.vusr/share/man/man3/stis_term_ins_stis_term_resized.3x.bz2
.vusr/share/man/man3/stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_ins_stis_term_i
```

```
/sbin/ctrlaltdel
/sbin/tc
/sbin/fsck.minix
/sbin/mkfs.minix
/shin/ss
/sbin/depmod
/sbin/rc
/sbin/reboot
/sbin/sln
/sbin/nameif
/sbin/blkdiscard
/sbin/fdisk
/sbin/routel
/sbin/fsck.ext2
/sbin/mii-tool
/sbin/init
/sbin/rc-sstat
/sbin/blockdeu
/sbin/rtmon
/sbin/modprobe
/sbin/runlevel
/sbin/iptables-save
/sbin/killall5
/sbin/halt
/sbin/lsmod
/sbin/mke2fs
/sbin/switch_root
/sbin/pam_tally2
/sbin/unix_update
/sbin/ip6tables
/sbin/mkfs
/sbin/agetty
/sbin/arp
∕sbin⁄udevd
/shin/e2fsck
/sbin/fsck.cramfs
/sbin/e2image
∕sbin⁄nologin
/sbin/ip6tables-restore
/sbin/consoletype
```

Konfigurisanje make.conf

Nakon uspesnog raspakivanja "stage3" može se konfigurisati "make.conf" file sledećom komandom:

nano -w /mnt/Gentoo/etc/portage/make.conf

```
livecd gentoo # nano -w /mnt/gentoo/etc/portage/make.conf
```

"Nano" je besplatni text editor koji dolazi u svakoj Linux distribuciji, koristi graficki prikaz alata u terminalu sa napisanim precicama koje se lako koriste za kontrolu nad programom za editovanje texta.

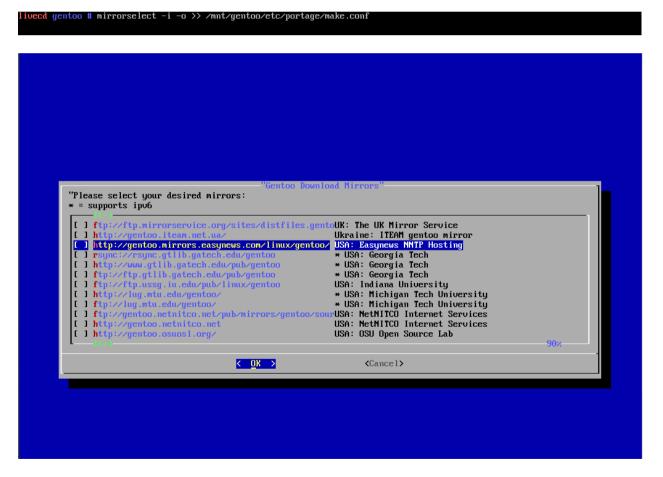


"make.conf" je konfiguracioni fajl sa dozvolama o podrsci koji Gentoo često koristi. Tu se nalaze dozvole koje sistem treba da poseti da bi skinuo program. Ako se prijavi program za instalaciju i on nije prijavljen u "make.conf" a trebalo bi ga instalirati on se neće instalirati i neće biti podržan. Zbog toga se moraju menjati vrednosti u "make.conf" kako bi stvari radile bolje.

```
# These settings were set by the catalyst build script that automatically
# built this stage.
# Please consult /usr/share/portage/config/make.conf.example for a more
# detailed example.
CFLAGS="-02 -pipe"
CXXFLAGS="${CFLAGS}"
# WARNING: Changing your CHOST is not something that should be done lightly.
# Please consult http://www.gentoo.org/doc/en/change-chost.xml before changing.
CHOST="x86_64-pc-linux-gnu"
# These are the USE and USE_EXPAND flags that were used for
# buidling in addition to what is provided by the profile.
USE="bindist"
CPU_FLAGS_X86="mmx sse sse2"
PORTDIR="${PORTDIR}/distfiles"
PKGDIR="${PORTDIR}/packages"
```

Ovom komandom se dodaju sajtovi koji se koriste za nadogradnju sistema. # mirrorselect -i -o >> /mnt/gentoo/etc/portage/make.conf

Otvara se mirror list prozor i ovde se selektuju "mirrors" koji su bliži što može da ubrza skidanje fajlova za izgradnju programa i updejtovanje sistema.



Markiraju se linkovi po želji pritiskom na taster 'space' i potvrđuje se pritiskom na taster 'enter'

Oni se takođe dodaju u "make.conf" što govori komanda iznad.

mkdir /mnt/gentoo/etc/portage/repos.conf # cp /mnt/gentoo/usr/share/portage/config/repos.conf /mnt/gentoo/etc/portage/repos.conf/gentoo.conf

samo se kopiraju jedni kofiguracioni fajlovi na drugo mesto

nano /mnt/Gentoo/etc/portage/repos.conf/gentoo.conf

i tu se vidi da je fajl uspešno kopiran

```
GNU nano 2.5.3 File: /mnt/gentoo/etc/portage/repos.conf/gentoo.conf

[DEFAULT]
main-repo = gentoo

[gentoo]
location = /usr/portage
sync-type = rsync
sync-type = rsync
sync-type = rsync.://rsync.gentoo.org/gentoo-portage
auto-sync = yes

# for daily squashfs snapshots
#sync-type = squashdelta
#sync-uri = mirror://gentoo/../snapshots/squashfs
```

Posle "stage3tarbala" se dobija Gentoo Linux bez kernela to je zapravo "stage3" kada se chroot-uje u novom okruženju, onda može da se konfigurise kernel, to je veoma vazan korak. kopira se sledeće

cp -L /etc/resolv.conf /mnt/gentoo/etc/

to kopira network podešavanja u novom ambientu nakon toga se mountuju neophodni fajlovi i folderi

```
# mount -t proc proc /mnt/gentoo/proc
# mount --rbind /sys /mnt/gentoo/sys
# mount --make-rslave /mnt/gentoo/dev
# mount --rbind /dev /mnt/gentoo/dev
# mount --make-rslave /mnt/gentoo/dev
```

```
livecd gentoo # cp -L /etc/resolv.conf /mnt/gentoo/etc/
livecd gentoo # mount -t proc proc /mnt/gentoo/proc
livecd gentoo # mount --rbind /sys /mnt/gentoo/sys
livecd gentoo # mount --make-rslave /mnt/gentoo/sys
livecd gentoo # mount --rbind /dev /mnt/gentoo/dev
livecd gentoo # mount --make-rslave /mnt/gentoo/dev
livecd gentoo # mount --make-rslave /mnt/gentoo/dev
livecd gentoo # mount --make-rslave /mnt/gentoo/dev
```

Root-ovanje u novom ambijentu

da se rutuje novi ambijent koriste se sledeće komande # chroot /mnt/gentoo /bin/bash # source /etc/profile

```
livecd gentoo # chroot /mnt/gentoo /bin/bash
livecd / # source /etc/profile_
```

export PS1="(chroot) \$PS1"

```
livecd / # export PS1="(chroot) $PS1"
(chroot) livecd / #
```

zbog konfiguracija portage je pozeljna ponovna provera internet konekcije

ping -c 3 www.google.com

```
livecd / # export PS1="(chroot) $PS1"
(chroot) livecd / # ping -c 3 www.google.com
PING www.google.com (188.120.127.110) 56(84) bytes of data.
64 bytes from 188.120.127.110: icmp_seq=2 ttl=63 time=15.5 ms
64 bytes from 188.120.127.110: icmp_seq=3 ttl=63 time=15.9 ms
^C
--- www.google.com ping statistics ---
3 packets transmitted, 2 received, 33× packet loss, time 2012ms
rtt min/avg/max/mdev = 15.511/15.723/15.936/0.246 ms
(chroot) livecd / # emerge --sync
```

emerge --sync

ovde se koristi "emerge" nešto kao pacman u arch Linuxu samo što na Gentoo platformi ne poštoji pocket manager pa sve mora da se kompajlira sa source-a

[slika 24 25]

```
op-crypt/libsecret/libsecret-0.18.5.ebuild
opp-crypt/libsecret/retadata.xnl
opp-crypt/libsecret/retadata.xnl
opp-crypt/libu2f-host/lhu2f-host-1.1.1.ebuild
app-crypt/libu2f-host/libu2f-host-1.1.3.ebuild
app-crypt/libu2f-host/libu2f-host-1.1.3.ebuild
app-crypt/libu2f-host-vibu2f-host-1.1.3.ebuild
app-crypt/libu2f-server/Amifest
app-crypt/libu2f-server/Amifest
app-crypt/libu2f-server/ribest
app-crypt/libu2f-server-retadata.xnl
app-crypt/libu2f-server-retadata.xnl
app-crypt/libu2f-server-ribest/libu2f-server-1.0.1-tests-fix.patch
app-crypt/libu2f-server-ribest/libu2f-server-1.0.1-tests-fix.patch
app-crypt/libu2f-server-ribest/libu2f-server-1.0.1-tests-fix.patch
app-crypt/libu3f-server-ribest/libu2f-server-1.0.1-tests-fix.patch
app-crypt/libu3heongr/Manifest
app-crypt/libu3heongr/Manifest
app-crypt/libu3heongr/Manifest
app-crypt/loop-ase-losetup/loop-ase-losetup-2.21.ebuild
app-crypt/loop-ase-losetup/loop-ase-losetup-2.25.ebuild
app-crypt/loop-ase-losetup/loop-ase-losetup-2.26.ebuild
app-crypt/loop-ase-losetup-retadata.xnl
app-crypt/mcrypt-files/app-crypt/mcrypt-2.6.8-r2.ebuild
app-crypt/mcrypt-files/app-crypt/ribes-day-crypt-files/app-crypt/ribes-day-crypt-files/app-crypt/ribes-day-crypt-files/app-crypt/ribes-day-crypt-files/app-crypt-files/app-crypt-files/app-crypt-files/app-crypt-files/arcrypt-2.6.8-sepn-file-patch
app-crypt/mcrypt-files/arcrypt-2.6.8-sepn-file-patch
app-crypt/mcrypt-files
```

```
xfce-extra/xfdashboard/
xfce-extra/xfdashboard/Hanifest
xfce-extra/xfdashboard/mtadata.xnl
xfce-extra/xfdashboard/xfdashboard-0.4.0.ebuild
xfce-extra/xfdashboard/xfdashboard-0.4.0.ebuild
xfce-extra/xfsuitch-plugin/mtadata.xnl
xfce-extra/xsuitch-plugin/mtadata.xnl
xfce-extra/xsuitch-plugin-xfsuitch-plugin-0.0.1-r1.ebuild
xfce-extra/xsuitch-plugin-xfsuitch-plugin-0.0.1-r2.ebuild
Number of files: 172,775 (reg: 145,239, dir: 27,536)
Number of created files: 144,327 (reg: 123,162, dir: 21,165)
Number of celeted files: 1 (reg: 1)
Number of regular files transferred: 123,162
Total file size: 249.581 bytes
Total transferred file size: 212.898 bytes
Literal data: 212.898 bytes
Total transferred file size: 212.898 bytes
File list size: 41.001
File list generation time: 0.001 seconds
File list transfer time: 0.000 seconds
Total bytes sent: 2.5387
Total bytes received: 222.708 bytes
sent 2.538 bytes received: 222.708 bytes 1.348 bytes/sec
total size is 249.558 speedup is 1.11
=== Sync completed for gentoo

Perforning Global Updates

Could take a couple of minutes if you have a lot of binary packages.)

.='update pass' *='binary update' #='var/db update' #='var/db nove'
p='update /etc/portage/package.*'

* IMPORTANT: 12 news items need reading for repository 'gentoo'.

* IMPORTANT: 12 news read to view new items.

(chroot) liveed / #
```

Selektovanje osnovnog sistemskog profila

kad bude gotovo može da se predje na selektovanje osnovne sistemske konfiguracije

eselect profile list

selektovanje profila znaci selktovati sta ce biti kompajlirano od ponudjenih profila za sistem

```
# eselect profile set 1
# emerge --ask --update --deep --newuse @world
```

```
(chroot) lived / # eselect profile list

Available profile symlink targets:

[1] default/linux/and64/13.0 **

[2] default/linux/and64/13.0/desktop

[3] default/linux/and64/13.0/desktop/ynome

[4] default/linux/and64/13.0/desktop/ynome

[5] default/linux/and64/13.0/desktop/ynome

[6] default/linux/and64/13.0/desktop/kde

[7] default/linux/and64/13.0/desktop/kde/systemd

[8] default/linux/and64/13.0/desktop/plasma

[9] default/linux/and64/13.0/desktop/plasma/systemd

[10] default/linux/and64/13.0/desktop/plasma/systemd

[11] default/linux/and64/13.0/desploper

[11] default/linux/and64/13.0/systemd

[13] default/linux/and64/13.0/systemd

[14] hardened/linux/and64/13.0/systemd

[15] hardened/linux/and64/13.0/systemd

[16] hardened/linux/and64/13.0/systemd

[17] hardened/linux/and64/13.0/systemd

[18] hardened/linux/and64/13.0/systemd

[19] hardened/linux/and64/xop-multilib

[10] hardened/linux/and64/xop-multilib

[11] hardened/linux/and64/xop-multilib/selinux

[12] hardened/linux/and64/xop-multilib/selinux

[13] hardened/linux/and64/xop-multilib/selinux

[14] hardened/linux/and64/xop-multilib/selinux

[15] hardened/linux/and64/xop-multilib/selinux

[16] hardened/linux/and64/xop-multilib/selinux

[17] hardened/linux/and64/xop-multilib/selinux

[18] hardened/linux
```

```
d. vuar/tmp/portage/dev-util/cmake-3.5.2-nLuork/cmake-3.5.2_build/Utilities/cm_isomcpy & vuar/tmp/portage/dev-util/cmake-3.5.2-nLuork/cmake-3.5.2_build/Utilities/cm_isomcpy & vuar/tmp/portage/dev-util/cmake-3.5.2-nLuork/cmake-3.5.2_build/Utilities/cm_isomcpy & vuar/tmp/portage/dev-util/cmake-3.5.2-nLuork/cmake-3.5.2_build/Utilities/cm_isomcpy & vuar/tmp/portage/dev-util/cmake-3.5.2-nLuork/cmake-3.5.2_build/Utilities/cm_isomcpy & vuar/tmp/portage/dev-util/cmake-3.5.2_build/Utilities/cm_isomcpy & vuar/tmp/portage/dev-util/cmake-3.5.2_build/Utilities/cm_isomcpy & vuar/tmp/portage/dev-util/cmake-3.5.2-nLuork/cmake-3.5.2_build/Utilities/cm_isomcpy & vuar/tmp/portage/dev-util/cmake-3.5.2_build/Utilities/cm_isomcpy & vuar/tmp/portage/dev-utili/cmake-3.5.2_build/Source/dev-utili/cmake-3.5.2_build/Source/dev-utili/cmake-3.5.2_build/Source/dev-utili/cmake-3.5.2_build/Source/dev-utili/cmake-3.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dake-1.5.2_build/Source/dak
```

onda sledi komanda za čišćenje nepotrebnih podataka:

emerge --depclean

Štelovanje sata po lokalnom vremenu

štelovanje sata po lokalnom vremenu se vrši sledećim komandama:

```
# ls /usr/share/zoneinfo
# cd /usr/share/zoneinfo/Europe
# ls
# echo "Europe/Belgrade" > /etc/timezone
```

```
GMT+0
                                                                               Kwa jalein
                                                                                                                                     Zulu
                             Cuba
                                                                   Iceland
                                                                                                                      UCT
Africa
                                                                                                        Poland
                                                                                                        Portuga 1
ROC
ROK
                             EET
                                                    GMT-0
                                                                               Libya
                                                                                             NZ-CHAT
                                                                                                                                     iso3166.tab
 nerica
              CET
                                                                   Iran
Israel
                                                                              MET
MST
                                                                                            Nava jo
PRC
                                                                                                                      HTC
                             EST
                                         Factory
                                                    GMTO
                                                                                                                                     localtime
               CST6CDT
                             EST5EDT
                                                    Greenwich
                                                                                                                      Universal
                                                                                                                                     posixrules
                             Egypt
Eire
                                                                                                                                     zone.tab
zone1970.tab
                                         GB-Eire
                                                    HST
                                                                              MST7MDT
                                                                                             PST8PDT
                                                                                                        Singapore
                                                                   Jamaica
                                                                                                                      W-SU
Atlantic Chile Eire (chroot) livecd / # cd Europe
                                         GMT
                                                                                                                       WET
                                                    Hongkong
                                                                   Japan
                                                                                                        Turkey
bash: cd: Europe: No such file or directory
(chroot) livecd / # cd /usr/share/zoneinfo/Europe
(chroot) livecd Europe # ls
                                                                                                                         Tallinn
Amsterdam
            Berlin
                             Chisinau
                                                                                                          San_Marino
                                                                                                                                       Vatican
                                                                             Mariehamn
                                                                                                                                                      Zaporozhye
             Bratislava
                             Copenhagen
Dublin
                                                              L jub l jana
Andorra
Astrakhan
                                                                                                                                        Vienna
                                             Istanbul
                                                                             Minsk
                                                                                           Podgor i ca
                                                                                                          Sara jevo
                                                                                                                          Tirane
                                                                                                                                                      Zurich
             Brussels
                                             Jersey
                                                              London
                                                                             Monaco
                                                                                            Prague
                                                                                                          Simferopol
                                                                                                                          Tiraspol
                                                                                                                                       Vilnius
Athens
Belfast
                                                              Luxembourg
                                                                                           Riga
                                                                                                          Skop je
             Bucharest
                             Gibraltar
                                             Kaliningrad
                                                                             Moscow
                                                                                                                         Ulyanovsk
                                                                                                                                       Volgograd
                                             Kiev
             Budapest
                             Guernsey
Helsinki
                                                              Madrid
                                                                             Nicosia
                                                                                                                                       Warsaw
                                                                                                          Sofia
                                                                                                                         Uzhgorod
Belgrade
             Busingen
                                             Kirov
                                                                                                          Stockholm
                                                                                                                                        Zagreb
(chroot) livecd Europe # echo "Europe/Belgrade'
(chroot) livecd Europe # _
(chroot)
                                                              > /etc/timezone
```

Konfigurisanje lokacije:

nano -w /etc/locale.gen

```
(chroot) livecd Europe # emerge --config sys-libs/timezone-data

Configuring pkg...

* Updating /etc/localtime with /usr/share/zoneinfo/Europe/Belgrade

(chroot) livecd Europe # nano -w /etc/locale.gen
```

Briše se samo znak "#" ispred lokacije koju zelimo da koristimo kako ne bi bila ignorisana dok ostale ostaju sa znakom "#" ispred.

```
# locale-gen
# eselect locale list
# eselect locale set 3
# env-update && source /etc/profile && export PS1="(chroot) $PS1"
```

Konfiguracija kernela

Sada treba konfigurisati kernel, to nije mala stvar tamo se konfiguriše šta će sistem biti posle instalacije.

emerge --ask sys-kernel/gentoo-sources

ova komanda je jako važna i bez nje nije moguće uspešno konfigurisati kernel.

Ovde se bira između dva ponđena kernela, ručno podesivi ili "genkernel", "genkernel" je kernel koji je konfigurisan po nekim standardnim podešavanjima što je slicno sa drugim Linux distribucijama.

ls -1 /usr/src/linux # emerge --ask sys-kernel/genkernel

```
>>> Installing (1 of 1) sys-kernel/genkernel-3.4.52.4-r2::gentoo

* Documentation is available in the genkernel namual page

* as well as the following URL:

* https://www.gentoo.org/doc/en/genkernel.xml

* This package is known to not work with reiser4. If you are running

* reiser4 and have a problem, do not file a bug. We know it does not

* work and we don't plan on fixing it since reiserf is the one that is

* broken in this regard. Try using a sane filesystem like ext4.

* The LUKS support has changed from versions prior to 3.4.4. Now,

* you use crypt_root=/dev/blah instead of real_root=luks:/dev/blah.

>>> Recording sys-kernel/genkernel in "world" favorites file...

* Messages for package sys-kernel/genkernel-3.4.52.4-r2:

* Documentation is available in the genkernel namual page

* as well as the following URL:

* https://www.gentoo.org/doc/en/genkernel.xml

* This package is known to not work with reiser4. If you are running

* reiser4 and have a problem, do not file a bug. We know it does not

* work and we don't plan on fixing it since reiserf is the one that is

* broken in this regard. Try using a sane filesystem like ext4.

* The LUKS support has changed from versions prior to 3.4.4. Now,

* you use crypt_root=/dev/blah instead of real_root=luks:/dev/blah.

>>> Muto-cleaning packages...

* GNU info directory index is up-to-date.

* IMPORTONT: 13 news items need reading for repository 'gentoo'.

* Use seelect news read to view new items.
```

emerge završava kompajliranje "genkernel-a"

Editovanje "fstab" fajla

Nastavlja se sa editovanjem fstab fajla. "fstab" je konfiguracioni fajl sa spiskom dostupnih uredjaja za boot-ovanje koji ce se koristiti u sistemu. "fstab" je važno pravilno konfigurisati jer od njega zavisi kasnije izgradnja "grub-a".

nano -w /etc/fstab

```
GNU nano 2.5.3
                                                                     File: /etc/fstab
  /etc/fstab: static file system information.
  noatime turns off atimes for increased performance (atimes normally aren't needed); notail increases performance of ReiserFS (at the expense of storage efficiency). It's safe to drop the noatime options if you want and to switch between notail \prime tail freely.
  The root filesystem should have a pass number of either 0 or 1. All other filesystems should have a pass number of 0 or greater than 1.
  See the manpage fstab(5) for more information.
  <fs>>
                                    <mountpoint>
                                                            <type>
                                                                                     <opts>
                                                                                                             <dump/pass>
# NOTE: If your BOOT partition is ReiserFS, add the notail option to opts
∠dev/B00T
                                    ∕boot
                                                            ext2
                                                                                    noauto,noatime
                                                                                                            1 Z
0 1
 dev/ROOT
                                                            ext3
                                                                                    noatime
 /deu/SWAP
                                                                                                            0 0
                                                            swap
 /dev/cdrom
                                    /mnt/cdrom
                                                            auto
                                                                                    noauto.ro
                                    /mnt/floppy
                                                                                    noauto
```

```
GNU nano 2.5.3
                                                                    File: /etc/fstab
                                                                                                                                                                                   Modified
 /etc/fstab: static file system information.
 noatime turns off atimes for increased performance (atimes normally aren't needed); notail increases performance of ReiserFS (at the expense of storage efficiency). It's safe to drop the noatime options if you want and to switch between notail / tail freely.
 The root filesystem should have a pass number of either 0 or 1. All other filesystems should have a pass number of 0 or greater than 1.
  See the manpage fstab(5) for more information.
  (fg)
                                   <mountpoint>
                                                            <type>
                                                                                    <opts>
                                                                                                             <dump/pass>
* NOTE: If your BOOT partition is ReiserFS, add the notail option to opts.
                                                            ext2
ext3
                                   ∕boot
                                                                                    defaults
                                                                                    noatime
∕deu/SWAP
                                   /mnt/cdrom
                                                                                    moauto.ro
deu/cdrom
                                                            auto
                                   /mnt/floppy
                                                                                    noauto
```

sada sistem zna gde je boot particija.

Generisanje kernela

generisanje Linux kernela se vrši komandom:

genkernel all

potrebno je malo više vremena da se to obavi.

sledeće je konfigurisanje sistema, to podrazumeva ponovo otvaranje fstab fajla i menjanje boot prioriteta i hardvera

nano -w /etc/fstab

```
switch between notail / tail freely.
 The root filesystem should have a pass number of either 0 or 1. All other filesystems should have a pass number of 0 or greater than 1.
  See the manpage fstab(5) for more information.
                                     <mountpoint>
                                                              <type>
                                                                                                                <dump/pass>
  NOTE: If your BOOT partition is ReiserFS, add the notail option to opts.
 NOTE: Even though we list ext4 as the type here, it will work with ext2/ext3 filesystems. This just tells the kernel to use the ext4 driver.
 NOTE: You can use full paths to devices like /dev/sda3, but it is often more reliable to use filesystem labels or UUIDs. See your filesystem documentation for details on setting a label. To obtain the UUID, use
           the blkid(8) command.
/deu/sda2
/deu/sda3
                                                             ext2
ext4
                                     ∕boot
                                                                                       defaults, noatime
                                                                                       noatime
                                                                                                    To Spell
```

Konfigurisanje network informacija i ime domena

Prvo treba promeniti 'hostname'

nano -w /etc/conf.d/hostname

U fajlu 'hostname' menjamo vrednost pod navodnicima "localhost" u ime po zelji

```
nano 2.6.3

File: /etc/conf.d/hostname

# Set to the hostname of this machine
hostname="localhost"
```

nano -w /etc/conf.d/net

U "net" fajlu se upisuje:

dns domain lo="homenetwork"

nano 2.6.3	File: /etc/conf.d/net	Modified
dns_domain_lo="homenetwork"		
ano_aoma111_10		

emerge --ask --noreplace net-misc/netifrc

Ta komanda kompajlira network, onda se proverava vrsta interneta komandom kao na početku:

ip link

nano -w /etc/conf.d/net

I u "net" fajlu se nakon toga dodaje ime domena.

config enp0s3="dhcp"

```
nano 2.6.3 File: /etc/conf.d/net Modified
dns_domain_lo="homenetwork"
config_enp0s3="dhcp"
```

Podešavanje konfiguracije interneta za boot

Podešavanje ove konfiguracije za internet, kako bi uvek bila podešena kada se butuje sistem.

```
# cd /etc/init.d
# ln -s net.lo net.enp0s3
# rc-update add net.enp0s3 default
```

```
(chroot) livecd ~ # cd /etc/init.d
(chroot) livecd init.d # ln -s net.lo net.enp0s3
(chroot) livecd init.d # rc-update add net.enp0s3 default
* service net.enp0s3 added to runlevel default
(chroot) livecd init.d # _
```

Menja se hosts file komandom:

nano -w /etc/hosts

The format of lines in this file is: IP_ADDRESS canonical_hostname #The fields can be separated by any number of spaces or tabs. In the presence of the domain name service or NIS, this file may not be consulted at all; see /etc/host.conf for the resolution order. IPu4 and IPu6 localhost aliases localhost localhost Imaginary network. #10.0.0.2 #10.0.0.3 myname myfriend According to RFC 1918, you can use the following IP networks for private nets which will never be connected to the Internet: 10.255.255.255 172.31.255.255 192.168.255.255 10.0.0.0 172.16.0.0 192.168.0.0 In case you want to be able to connect directly to the Internet (i.e. not behind a NAT, ADSL router, etc...), you need real official assigned numbers. Do not try to invent your own network numbers but instead get one from your network provider (if any) or from your regional registry (ARIN, APNIC, LACNIC, RIPE NCC, or AfriNIC.) First Line M-W Where Is Ne:
1-1 Last Line M-1 To Bracket ^G Get Help ^X Exit ^O Write Out ^R Read File ~W Where Is ^\ Replace R Cut Text Y Prev Page The format of lines in this file is: IP ADDRESS canonical_hostname [aliases...] #The fields can be separated by any number of spaces or tabs. In the presence of the domain name service or NIS, this file may not be consulted at all; see /etc/host.conf for the resolution order. IPu4 and IPu6 localhost aliases . 1701 and 127.0.0.1 ::1 genthost.homenetwork genthost localhost Incallhost Imaginary network. #10.0.0.2 #10.0.0.3 myname myfriend According to RFC 1918, you can use the following IP networks for private nets which will never be connected to the Internet: 10.255.255.255 172.16.0.0 192.168.0.0 172.31.255.255 192.168.255.255 In case you want to be able to connect directly to the Internet (i.e. not behind a NAT, ADSL router, etc...), you need real official assigned numbers. Do not try to invent your own network numbers but instead get one from your network provider (if any) or from your regional registry (ARIN, APNIC, LACNIC, RIPE NCC, or AfriNIC.) Get Help ^O Write Out ^R Read File ^W Where Is ^ Replace ^K Cut Text ^U Uncut Text ^Y Prev Page ^V Next Page M- First Line M-W Where Is Ne
M- Last Line M-I To Bracket T To Spell
C Cur Pos

Setovanje root pasword-a

Nakon toga se setuje root pasword komandom:

passwd

init i boot konfigurisanje

nano -w /etc/rc.conf

ovde se nista ne menja

```
# This is how long fuser should wait for a remote server to respond. The
# default is 60 seconds, but it can be adjusted here.
 rc_fuser_timeout=60
   Below is the default list of network fstypes.
  afs ceph cifs coda daufs fuse fuse.sshfs gfs glusterfs lustre ncpfs nfs nfs4 ocfs2 shfs smbfs \,
# If you would like to add to this list, you can do so by adding your
# own fstypes to the following variable.
#extra_net_fs_list=""
Some daemons are started and stopped via start-stop-daemon.
We can set some things on a per service basis, like the nicelevel.
SSD_NICELEVEL="-19"
  Or the ionice level. The format is class[:data] , just like the
 # --ionice start-stop-daemon parameter.
#SSD_IONICELEVEL="2:2"
  Pass ulimit parameters If you are using bash in POSIX mode for your shell, note that the ulimit command uses a block size of 512 bytes for the -c and -f
# options
#rc_ulimit="-u 30"
# It's possible to define extra dependencies for services like so 
#rc_config="/etc/foo"
^G Get Help
^X Exit
                        ^O Write Out
^R Read File
                                               ^W Where Is
^\ Replace
                                                                       TK Cut Text
Uncut Text
                                                                                               To Spell
Cur Pos
                                                                                                                      "Y Prev Page
"V Next Page
                                                                                                                                              1-> First Line
1-> Last Line
```

Provera jezika tastature

nano -w /etc/conf.d/keymaps

ovde sve izgleda kako treba

```
# Use keymap to specify the default console keymap. There is a complete tree
# of keymaps in /usr/share/keymaps to choose from.
keymap="us"
# Should we first load the 'windowkeys' console keymap? Most x86 users will
# say "yes" here. Note that non-x86 users should leave it as "no".
# Loading this keymap will enable VI switching (like fbLT+Left/Right)
# using the special windows keys on the linux console.
# The maps to load for extended keyboards. Most users will leave this as is.
# extended_keymaps="""
# extended_keymaps="backspace keypad euro2"
# Tell dumpkeys(1) to interpret character action codes to be
# from the specified character set.
# This only matters if you set unicode="yes" in /etc/rc.conf.
# For a list of valid sets, run 'dumpkeys --help'
dumpkeys_charset=""
# Some fonts map AltGr-E to the currency symbol instead of the Euro.
# To fix this, set to "yes"
```

Slede opcione komande sitemski loger kada se podize sistem:

```
# emerge --ask app-admin/sysklogd
# rc-update add sysklogd default
```

nakon toga kompajliramo croniedion # emerge --ask sys-process/cronie # rc-update add cronie default

fajl indexing

emerge --ask sys-apps/mlocate

```
* Final size of build directory: 1556 KiB
* Final size of installed tree: 316 KiB
 strip: x86_64-pc-linux-qnu-strip --strip-unneeded -R .comment -R .GCC.command.line -R .note.gnu.gold-version
   usr/bin/crontab
usr/sbin/crond
ecompressdir: bzip2 -9 /usr/share/doc
ecompressdir: bzip2 -9 /usr/share/man
>>> Installing (2 of 2) sys-process/cronie-1.5.0-r1::gentoo
* >>> SetGID: [chmod o-r1 /usr/bin/crontab ...
                                                                                                                                                            Γnk
 * You may wish to read the Gentoo Linux Cron Guide, which can be
 * found online at:

* https://www.gentoo.org/doc/en/cron-guide.xml
>>> Recording sys-process/cronie in "world" favorites file...
>>> Auto-cleaning packages...
>>> No outdated packages were found on your system.
 * GNU info directory index is up-to-date.
 * IMPORTANT: 12 news items need reading for repository 'gentoo'. 
 * Use eselect news read to view new items.
(chroot) livecd " # rc-update add cronie default
* service cronie added to runlevel default
(chroot) livecd " # emerge --ask sys-apps/mlocate
   IMPORTANT: 12 news items need reading for repository 'gentoo'.
 * Use eselect news read to view new items
 These are the packages that would be merged, in order:
Would you like to merge these packages? [Yes/No]
```

sada treba emergovati file tipove tj. file sistem

emerge --ask sys-fs/e2fsprogs

Ova komanda daje podršku za ext2, ext3 i ext4 to nam je potrebno zato što imamo "root" kao ext3 ili 4 i "boot" kao ext2 zato je neophodno da bi sistem razumeo ove tipove fajlova. Takođe je važno emergovati i dhcpcd da bi radio internet.

emerge --ask net-misc/dhcpcd

```
sbin/dunpe2fs
sbin/dunpe2fs
sbin/dunpe2fs
sbin/dunpe2fs
sbin/dunpe2fs
sbin/e2lrage
sbin/e2lrage
dusrysbin/exlorefrag
dusrybin/lsattr
dusrybin/lsa
```

```
### failouer support you may have configured in journ met configuration.

### This behaviour can be controlled with the noipufll configuration

### file option or the -1. command line switch.

### See the dhcpcd and dhcpcd.conf man pages for more details.

### Dhcpcd has duid enabled by default, and this may cause issues

### with some dhcp servers. For more information, see

### https://bugs.gentoo.org/show_bug.cgi?id=477356

### If you activate the lookup-hostname hook to look up your hostname

### using the dns, you need to install net-dns/bind-tools.

### Messages for package net-misc/dhcpcd in "world" favorites file...

### Messages for package net-misc/dhcpcd-6.11.3:

### dhcpcd has zeroconf support active by default.

### This means it will always obtain an IP address even if no

### BHCP server can be contacted, which will break any existing

### failover support you may have configured in your net configuration.

### This behaviour can be controlled with the noipufl! configuration

### if io option or the -L command line switch.

### See the dhcpcd and dhcpcd.conf man pages for more details.

### Dhcpcd has duid enabled by default, and this may cause issues

### with some dhcp servers. For more information, see

### https://bugs.gentoo.org/show_bug.cgi?id=477356

### If you activate the lookup-hostname hook to look up your hostname

### wising the dns, you need to install net-dns/bind-tools.

*** On outdated packages...

#### ON outdated packages...

#### ON outdated packages were found on your systen.

##### IMPORIANT: 12 news items need reading for repository 'gentoo'.

###### Use esclect news read to view new items.

*** Cchroot I lived ***

*** Use esclect news read to view new items.
```

Podešavanje "grub" i "bootloader-a"

"grub" i "bootloader" se podešavaju kako bi moglo da se startuje novi sistem posle restarta racunara.

emerge --ask sys-boot/grub:2

to ce emergovati grub2 boot loader. Kada bude završeno kompajliranje može se konfigurisati grub. "grub" fajl je vrlo lako konfigurisati sledecim komandama, potrebno ga je prvo instalirati:

grub2-install /dev/sda

a onda konfigurisati u "grub.cfg" fajl.

grub2-mkconfig -o /boot/grub/grub.cfg

```
(chrot) livecd " # grub2-install /dev/sda
Installing for i386-pc platform.
Installation finished. No error reported.
(chrot) livecd " # grub2-mkconfig -o /boot/grub/grub.cfg
Generating grub configuration file ...
Found linux inage: /boot/kernel-genkernel-x86_64-4.4.6-gentoo
Found initrd image: /boot/initramfs-genkernel-x86_64-4.4.6-gentoo
done
(chrot) livecd " #
```

Instalacija Gentoo linuxa je zavrsena sada može da se restartuje sa novim sistemom sledećim zavrsnim komandama:

```
# exit
# cd
# umount -1 /mnt/gentoo
# umount -1 /dev
# umount -1 /proc
# reboot
```

```
#Gentoo GNU/Linux
Advanced options for Gentoo GNU/Linux

Use the ↑ and ↓ keys to select which entry is highlighted.
Press enter to boot the selected OS, `e' to edit the commands before booting or `c' for a command-line.
The highlighted entry will be executed automatically in 4s.
```

```
tux ~ # ping -c 3 www.google.com
PING www.google.com (216.58.195.132) 56(84) bytes of data.
64 bytes from iad23s24-in-f4.1e100.net (216.58.195.132): icmp_seq=1 ttl=51 time=
37.6 ms
64 bytes from iad23s24-in-f4.1e100.net (216.58.195.132): icmp_seq=2 ttl=51 time=
28.3 ms
64 bytes from iad23s24-in-f4.1e100.net (216.58.195.132): icmp_seq=3 ttl=51 time=
21.7 ms
--- www.google.com ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2002ms
rtt min/avg/max/mdev = 21.709/29.214/37.627/6.533 ms
tux ~ # _
```

Uspešno je instaliran i pokrenut Gentoo Linux bez desktop okruženja.