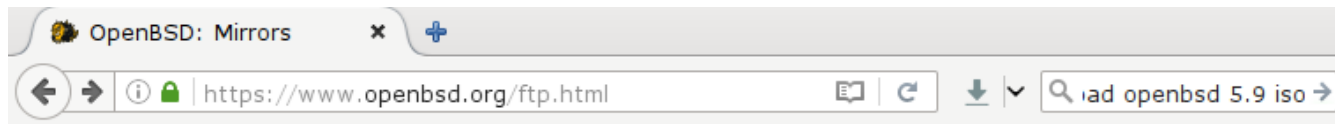


# Instalace OpenBSD

- Instalovat můžeme i na disk s jinými systémy
- OpenBSD nazývá disky IDE wd0,wd1 (cdrom cd0) a SATA sd0, sd1 (cdrom sr0)
- Fdiskem pouze zvolíme úložiště v jedné MS DOS partici (je možnost i GPT)
- Disklabelem nastavíme partice, což bude wd0a, wd0b,... pro IDE, nebo sd0a, sd0b,... pro SATA

# Vyberte nejbližší zrcadlo na stažení instal. CD – doporučuji Německo

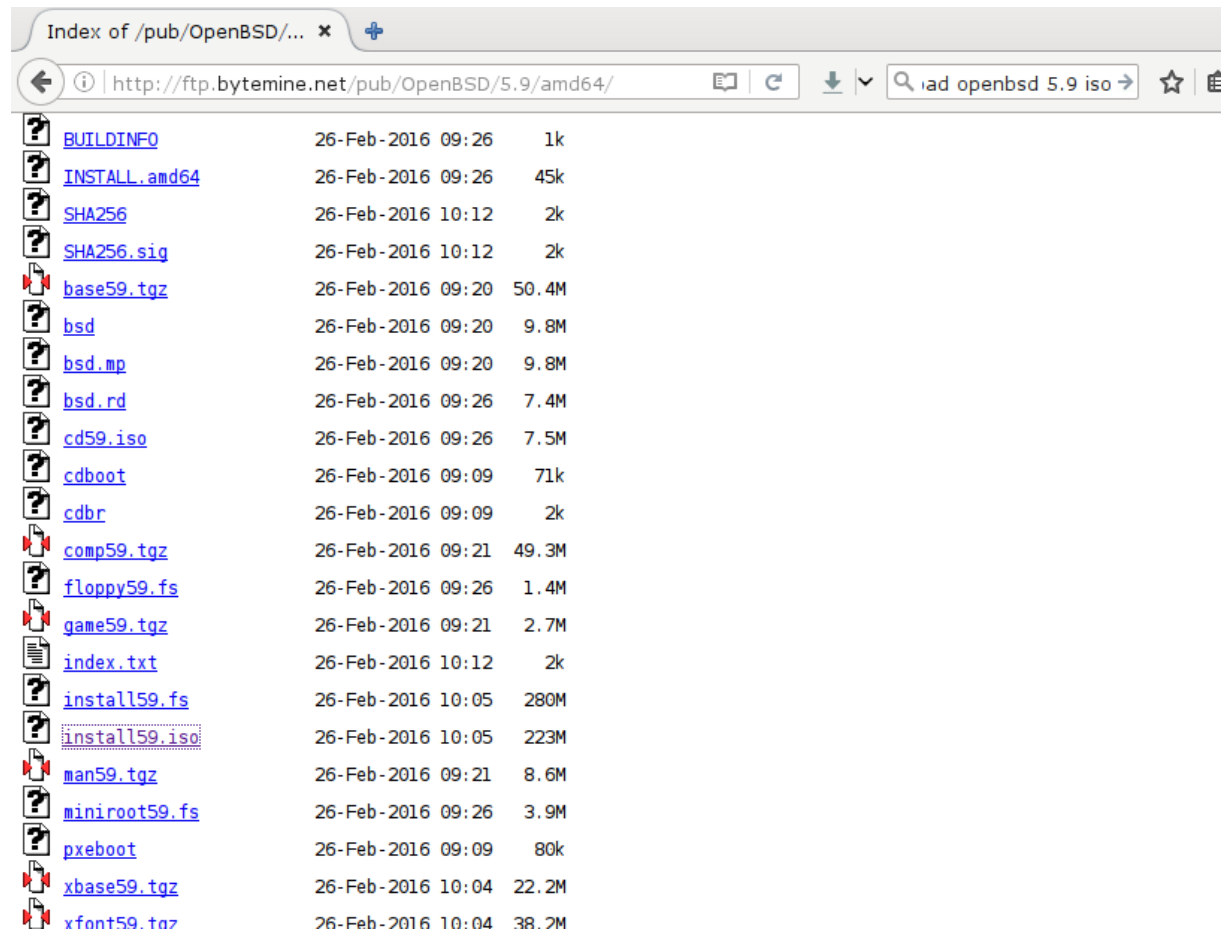


## HTTP

This is a list of currently known HTTP servers & mirrors:

Anycast CDN (Various)	<a href="http://mirrors.evowise.com/pub/OpenBSD/">http://mirrors.evowise.com/pub/OpenBSD/</a>
Australia (Adelaide)	<a href="http://mirror.internode.on.net/pub/OpenBSD/">http://mirror.internode.on.net/pub/OpenBSD/</a>
Australia (Brisbane)	<a href="http://mirror.aarnet.edu.au/pub/OpenBSD/">http://mirror.aarnet.edu.au/pub/OpenBSD/</a>
Austria (Vienna)	<a href="http://ftp5.eu.openbsd.org/ftp/pub/OpenBSD/">http://ftp5.eu.openbsd.org/ftp/pub/OpenBSD/</a>
Austria (Vienna)	<a href="http://ftp2.eu.openbsd.org/pub/OpenBSD/">http://ftp2.eu.openbsd.org/pub/OpenBSD/</a>
Brazil (Curitiba)	<a href="http://openbsd.c3sl.ufpr.br/pub/OpenBSD/">http://openbsd.c3sl.ufpr.br/pub/OpenBSD/</a>
Brazil (Brasilia)	<a href="http://mirrors.unb.br/pub/OpenBSD/">http://mirrors.unb.br/pub/OpenBSD/</a>
Bulgaria (Sofia)	<a href="http://mirror.telepoint.bg/OpenBSD/">http://mirror.telepoint.bg/OpenBSD/</a>
Bulgaria (Sofia)	<a href="http://openbsd.ipacct.com/pub/OpenBSD/">http://openbsd.ipacct.com/pub/OpenBSD/</a>
Canada (Alberta)	<a href="http://ftp.OpenBSD.org/pub/OpenBSD/">http://ftp.OpenBSD.org/pub/OpenBSD/</a>
Canada (Toronto, ON)	<a href="http://openbsd.cs.toronto.edu/pub/OpenBSD/">http://openbsd.cs.toronto.edu/pub/OpenBSD/</a>
Canada (Beauharnois, QC)	<a href="http://openbsd.delfic.org/pub/OpenBSD/">http://openbsd.delfic.org/pub/OpenBSD/</a>
Costa Rica	<a href="http://mirrors.ucr.ac.cr/OpenBSD/">http://mirrors.ucr.ac.cr/OpenBSD/</a>
Denmark (Aalborg)	<a href="http://mirrors.dotsrc.org/pub/OpenBSD/">http://mirrors.dotsrc.org/pub/OpenBSD/</a>
Denmark (Copenhagen)	<a href="http://mirror.one.com/pub/OpenBSD/">http://mirror.one.com/pub/OpenBSD/</a>
Estonia (Tallinn)	<a href="http://ftp.aso.ee/pub/OpenBSD/">http://ftp.aso.ee/pub/OpenBSD/</a>
France (Paris)	<a href="http://ftp.fr.openbsd.org/pub/OpenBSD/">http://ftp.fr.openbsd.org/pub/OpenBSD/</a>
France (Paris)	<a href="http://ftp2.fr.openbsd.org/pub/OpenBSD/">http://ftp2.fr.openbsd.org/pub/OpenBSD/</a>
France (Paris)	<a href="http://mirrors.ircam.fr/pub/OpenBSD/">http://mirrors.ircam.fr/pub/OpenBSD/</a>
Germany (Erlangen)	<a href="http://openbsd.cs.fau.de/pub/OpenBSD/">http://openbsd.cs.fau.de/pub/OpenBSD/</a>
Germany (Berlin)	<a href="http://ftp.spline.de/pub/OpenBSD/">http://ftp.spline.de/pub/OpenBSD/</a>

# V adresáři dle architektury procesoru zvolte install<verze>.iso



File Name	Date	Time	Size
<a href="#">BUILDINFO</a>	26-Feb-2016	09:26	1k
<a href="#">INSTALL.amd64</a>	26-Feb-2016	09:26	45k
<a href="#">SHA256</a>	26-Feb-2016	10:12	2k
<a href="#">SHA256.sig</a>	26-Feb-2016	10:12	2k
<a href="#">base59.tgz</a>	26-Feb-2016	09:20	50.4M
<a href="#">bsd</a>	26-Feb-2016	09:20	9.8M
<a href="#">bsd.mp</a>	26-Feb-2016	09:20	9.8M
<a href="#">bsd.rd</a>	26-Feb-2016	09:26	7.4M
<a href="#">cd59.iso</a>	26-Feb-2016	09:26	7.5M
<a href="#">cdboot</a>	26-Feb-2016	09:09	71k
<a href="#">cdbr</a>	26-Feb-2016	09:09	2k
<a href="#">comp59.tgz</a>	26-Feb-2016	09:21	49.3M
<a href="#">floppy59.fs</a>	26-Feb-2016	09:26	1.4M
<a href="#">game59.tgz</a>	26-Feb-2016	09:21	2.7M
<a href="#">index.txt</a>	26-Feb-2016	10:12	2k
<a href="#">install59.fs</a>	26-Feb-2016	10:05	280M
<a href="#">install59.iso</a>	26-Feb-2016	10:05	223M
<a href="#">man59.tgz</a>	26-Feb-2016	09:21	8.6M
<a href="#">miniroot59.fs</a>	26-Feb-2016	09:26	3.9M
<a href="#">pxeboot</a>	26-Feb-2016	09:09	80k
<a href="#">xbase59.tgz</a>	26-Feb-2016	10:04	22.2M
<a href="#">xfont59.tgz</a>	26-Feb-2016	10:04	38.2M

# Naběhne instalační konzole a vy zvolíte „i“ a stisknete Enter

```
VNC: Xen-OpenBSD
cd0(pciide0:1:0): using PIO mode 4, DMA mode 2
uhci0 at pci0 dev 1 function 2 "Intel 82371SB USB" rev 0x01: apic 1 int 23
"Intel 82371AB Power" rev 0x01 at pci0 dev 1 function 3 not configured
vga1 at pci0 dev 2 function 0 "Cirrus Logic CL-GD5446" rev 0x00
vga1: aperture needed
wsdisplay1 at vga1 mux 1: console (80x25, vt100 emulation)
xspd0 at pci0 dev 3 function 0 "XenSource Platform Device" rev 0x01
usb0 at uhci0: USB revision 1.0
uhub0 at usb0 "Intel UHCI root hub" rev 1.00/1.00 addr 1
isa0 at mainbus0
com0 at isa0 port 0x3f8/8 irq 4: ns16550a, 16 byte fifo
pckbc0 at isa0 port 0x60/5 irq 1 irq 12
pckbd0 at pckbc0 (kbd slot)
wskbd0 at pckbd0: console keyboard, using wsdisplay1
uhidev0 at uhub0 port 2 configuration 1 interface 0 "QEMU 0.10.2 QEMU USB Tablet"
rev 1.00/0.00 addr 2
uhidev0: iclass 3/1
uhid at uhidev0 not configured
softraid0 at root
scsibus1 at softraid0: 256 targets
root on rd0a swap on rd0b dump on rd0b
erase ^?, werase ^W, kill ^U, intr ^C, status ^T

Welcome to the OpenBSD/amd64 5.9 installation program.
(I)nstall, (U)pgrade, (A)utoinstall or (S)hell? i_
```

# Volba klávesnice, ponechte default americkou

```
VNC: Xen-OpenBSD
xspd0 at pci0 dev 3 function 0 "XenSource Platform Device" rev 0x01
usb0 at uhci0: USB revision 1.0
uhub0 at usb0 "Intel UHCI root hub" rev 1.00/1.00 addr 1
isa0 at mainbus0
com0 at isa0 port 0x3f8/8 irq 4: ns16550a, 16 byte fifo
pckbc0 at isa0 port 0x60/5 irq 1 irq 12
pckbd0 at pckbc0 (kbd slot)
wskbd0 at pckbd0: console keyboard, using wsdisplay1
uhidev0 at uhub0 port 2 configuration 1 interface 0 "QEMU 0.10.2 QEMU USB Tablet"
rev 1.00/0.00 addr 2
uhidev0: iclass 3/1
uhid at uhidev0 not configured
softraid0 at root
scsibus1 at softraid0: 256 targets
root on rd0a swap on rd0b dump on rd0b
erase ^?, werase ^W, kill ^U, intr ^C, status ^T

Welcome to the OpenBSD/amd64 5.9 installation program.
(I)nstall, (U)pgrade, (A)utoinstall or (S)hell? i
At any prompt except password prompts you can escape to a shell by
typing '!'. Default answers are shown in []'s and are selected by
pressing RETURN. You can exit this program at any time by pressing
Control-C, but this can leave your system in an inconsistent state.

Choose your keyboard layout ('?' or 'L' for list) [default] _
```

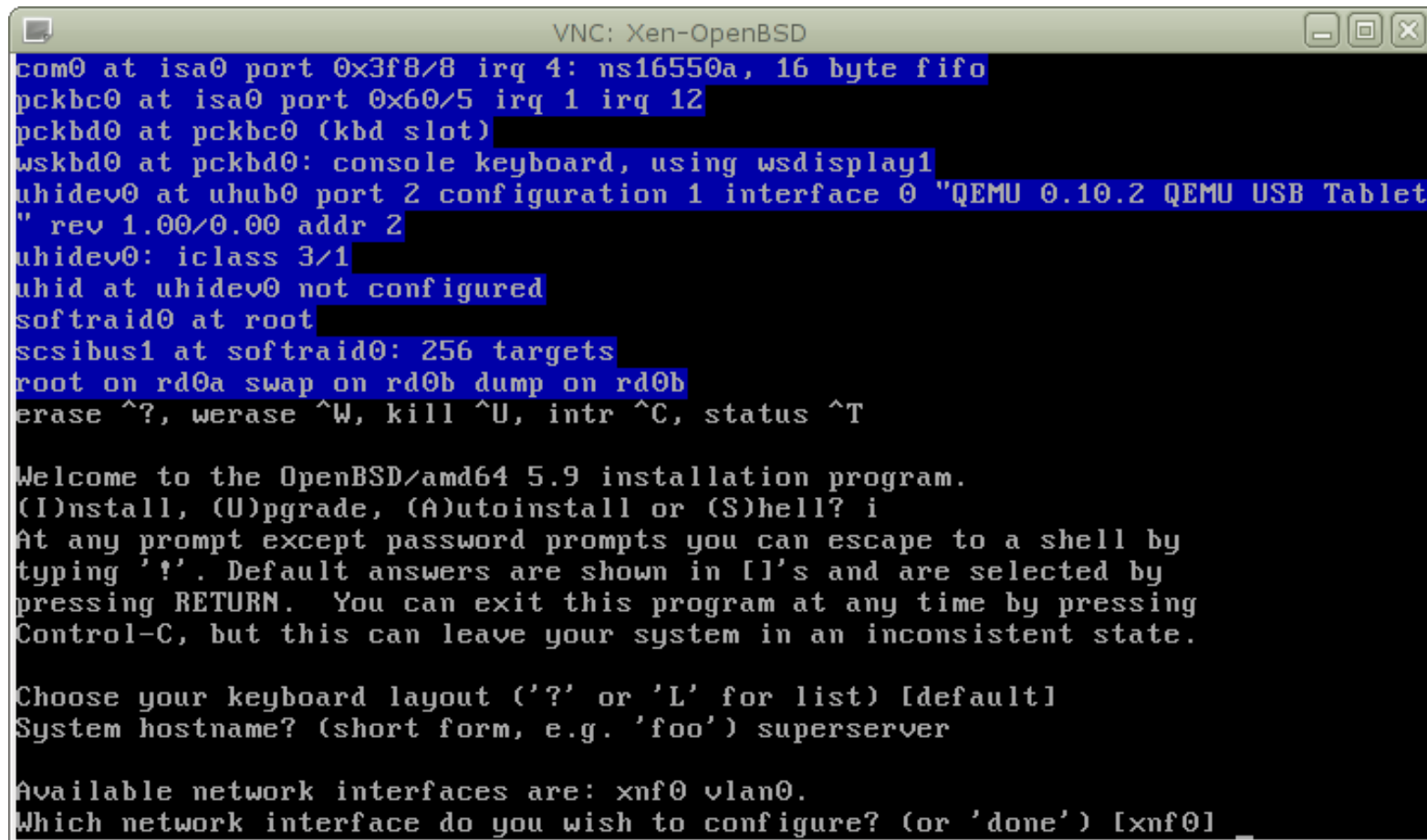
# Zadejte název počítače ve zkrácené formě (nikoli FQDN)

```
VNC: Xen-OpenBSD
usb0 at uhci0: USB revision 1.0
uhub0 at usb0 "Intel UHCI root hub" rev 1.00/1.00 addr 1
isa0 at mainbus0
com0 at isa0 port 0x3f8/8 irq 4: ns16550a, 16 byte fifo
pckbc0 at isa0 port 0x60/5 irq 1 irq 12
pckbd0 at pckbc0 (kbd slot)
wskbd0 at pckbd0: console keyboard, using wsdisplay1
uhidev0 at uhub0 port 2 configuration 1 interface 0 "QEMU 0.10.2 QEMU USB Tablet" rev 1.00/0.00 addr 2
uhidev0: iclass 3/1
uhid at uhidev0 not configured
softraid0 at root
scsibus1 at softraid0: 256 targets
root on rd0a swap on rd0b dump on rd0b
erase ^?, werase ^W, kill ^U, intr ^C, status ^T

Welcome to the OpenBSD/amd64 5.9 installation program.
(I)nstall, (U)pgrade, (A)utoinstall or (S)hell? i
At any prompt except password prompts you can escape to a shell by
typing '!'. Default answers are shown in []'s and are selected by
pressing RETURN. You can exit this program at any time by pressing
Control-C, but this can leave your system in an inconsistent state.

Choose your keyboard layout ('?' or 'L' for list) [default]
System hostname? (short form, e.g. 'foo') superserver_
```

V nabídce síťových zařízení zvolte, které chcete nastavit.



```
VNC: Xen-OpenBSD
com0 at isa0 port 0x3f8/8 irq 4: ns16550a, 16 byte fifo
pckbc0 at isa0 port 0x60/5 irq 1 irq 12
pckbd0 at pckbc0 (kbd slot)
wskbd0 at pckbd0: console keyboard, using wsdisplay1
uhidev0 at uhub0 port 2 configuration 1 interface 0 "QEMU 0.10.2 QEMU USB Tablet"
rev 1.00/0.00 addr 2
uhidev0: iclass 3/1
uhid at uhidev0 not configured
softraid0 at root
scsibus1 at softraid0: 256 targets
root on rd0a swap on rd0b dump on rd0b
erase ^?, werase ^W, kill ^U, intr ^C, status ^T

Welcome to the OpenBSD/amd64 5.9 installation program.
(I)nstall, (U)pgrade, (A)utoinstall or (S)hell? i
At any prompt except password prompts you can escape to a shell by
typing '!'. Default answers are shown in []'s and are selected by
pressing RETURN. You can exit this program at any time by pressing
Control-C, but this can leave your system in an inconsistent state.

Choose your keyboard layout ('?' or 'L' for list) [default]
System hostname? (short form, e.g. 'foo') superserver

Available network interfaces are: xnf0 vln0.
Which network interface do you wish to configure? (or 'done') [xnf0]
```

# Pro dhcp nastavení stačí Enter, ale můžete také zadat IP ručně

```
VNC: Xen-OpenBSD
pckbc0 at isa0 port 0x60/5 irq 1 irq 12
pckbd0 at pckbc0 (kbd slot)
wskbd0 at pckbd0: console keyboard, using wsdisplay1
uhidev0 at uhub0 port 2 configuration 1 interface 0 "QEMU 0.10.2 QEMU USB Tablet"
rev 1.00/0.00 addr 2
uhidev0: iclass 3/1
uhid at uhidev0 not configured
softraid0 at root
scsibus1 at softraid0: 256 targets
root on rd0a swap on rd0b dump on rd0b
erase ^?, werase ^W, kill ^U, intr ^C, status ^T

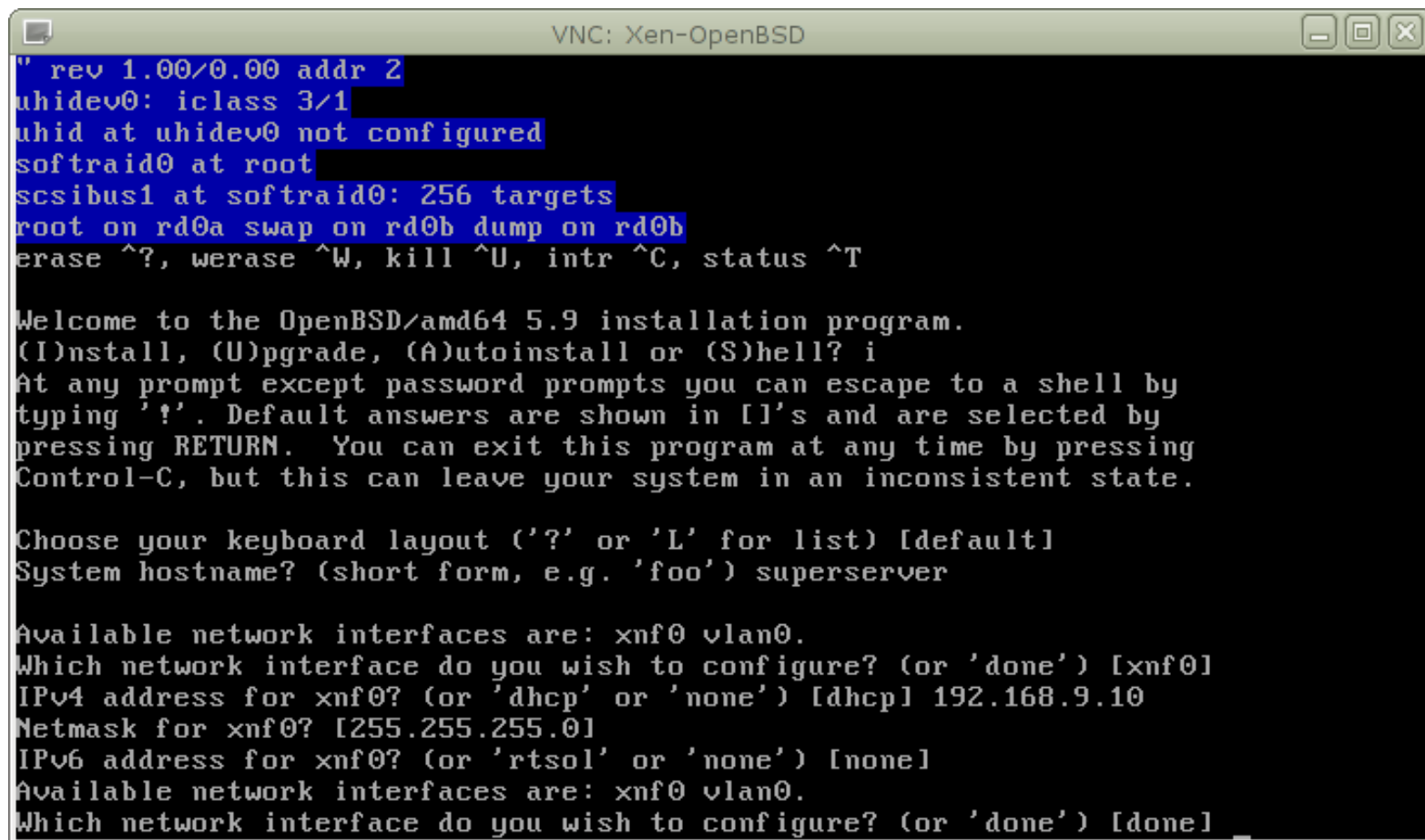
Welcome to the OpenBSD/amd64 5.9 installation program.
(I)nstall, (U)pgrade, (A)utoinstall or (S)hell? i
At any prompt except password prompts you can escape to a shell by
typing '!'. Default answers are shown in []'s and are selected by
pressing RETURN. You can exit this program at any time by pressing
Control-C, but this can leave your system in an inconsistent state.

Choose your keyboard layout ('?' or 'L' for list) [default]
System hostname? (short form, e.g. 'foo') superserver

Available network interfaces are: xnf0 vlan0.
Which network interface do you wish to configure? (or 'done') [xnf0]
IPv4 address for xnf0? (or 'dhcp' or 'none') [dhcp] 192.168.9.10_
```



Při ruční konfiguraci zadáme ještě masku sítě a ukončíme nastavení síťového prvku slovem „done“.



```
VNC: Xen-OpenBSD
" rev 1.00/0.00 addr 2
uhidev0: iclass 3/1
uhid at uhidev0 not configured
softraid0 at root
scsibus1 at softraid0: 256 targets
root on rd0a swap on rd0b dump on rd0b
erase ^?, werase ^W, kill ^U, intr ^C, status ^T

Welcome to the OpenBSD/amd64 5.9 installation program.
(I)nstall, (U)pgrade, (A)utoinstall or (S)hell? i
At any prompt except password prompts you can escape to a shell by
typing '!'. Default answers are shown in []'s and are selected by
pressing RETURN. You can exit this program at any time by pressing
Control-C, but this can leave your system in an inconsistent state.

Choose your keyboard layout ('?' or 'L' for list) [default]
System hostname? (short form, e.g. 'foo') superserver

Available network interfaces are: xnf0 vlan0.
Which network interface do you wish to configure? (or 'done') [xnf0]
IPv4 address for xnf0? (or 'dhcp' or 'none') [dhcp] 192.168.9.10
Netmask for xnf0? [255.255.255.0]
IPv6 address for xnf0? (or 'rtsol' or 'none') [none]
Available network interfaces are: xnf0 vlan0.
Which network interface do you wish to configure? (or 'done') [done] _
```

# Nastavíme doménu a případně DNS, pokud je nemáme od dhcp.

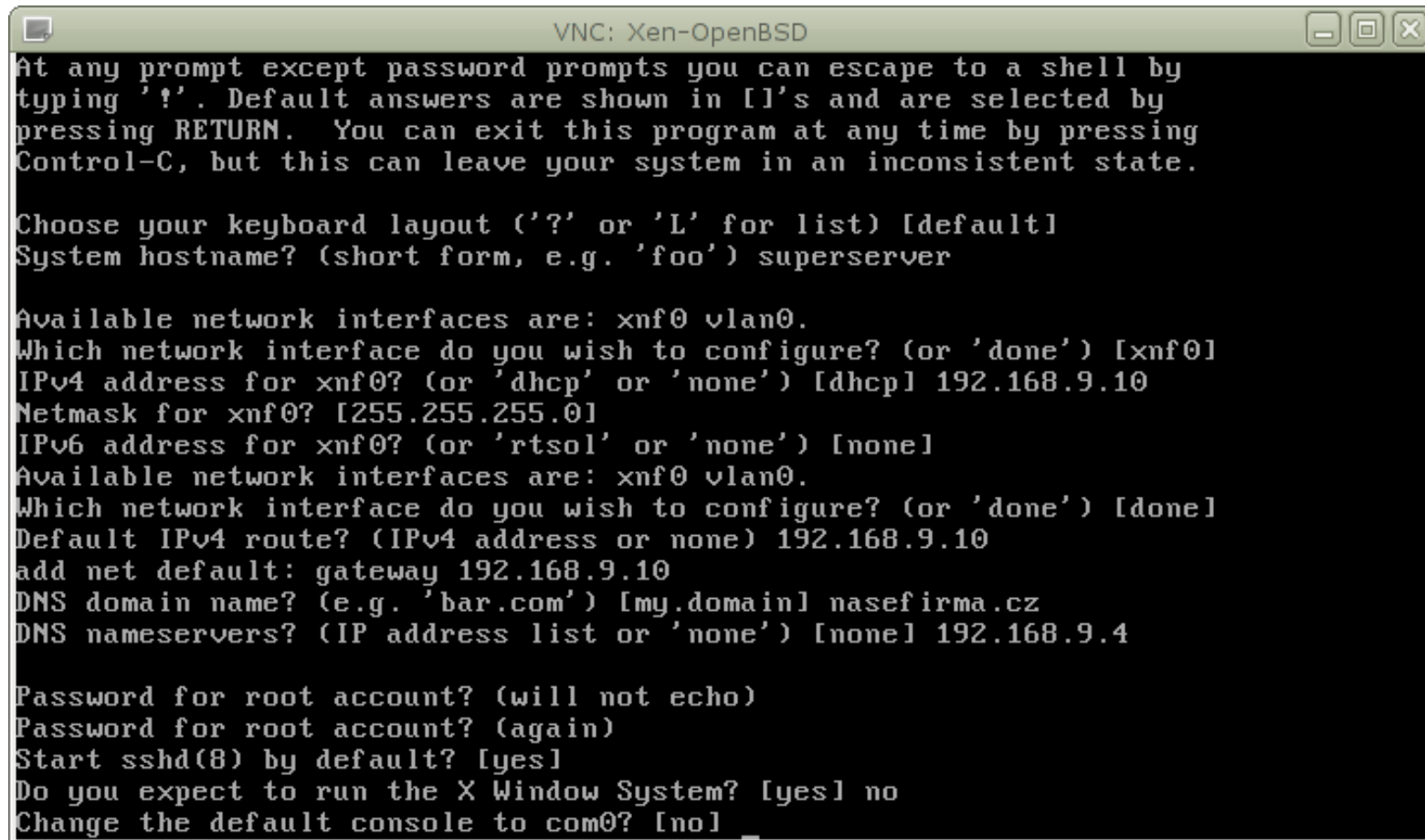
```
VNC: Xen-OpenBSD
scsibus1 at softraid0: 256 targets
root on rd0a swap on rd0b dump on rd0b
erase ^?, werase ^W, kill ^U, intr ^C, status ^T

Welcome to the OpenBSD/amd64 5.9 installation program.
(I)nstall, (U)pgrade, (A)utoinstall or (S)hell? i
At any prompt except password prompts you can escape to a shell by
typing '!'. Default answers are shown in []'s and are selected by
pressing RETURN. You can exit this program at any time by pressing
Control-C, but this can leave your system in an inconsistent state.

Choose your keyboard layout ('?' or 'L' for list) [default]
System hostname? (short form, e.g. 'foo') superserver

Available network interfaces are: xnf0 vlan0.
Which network interface do you wish to configure? (or 'done') [xnf0]
IPv4 address for xnf0? (or 'dhcp' or 'none') [dhcp] 192.168.9.10
Netmask for xnf0? [255.255.255.0]
IPv6 address for xnf0? (or 'rtsol' or 'none') [none]
Available network interfaces are: xnf0 vlan0.
Which network interface do you wish to configure? (or 'done') [done]
Default IPv4 route? (IPv4 address or none) 192.168.9.10
add net default: gateway 192.168.9.10
DNS domain name? (e.g. 'bar.com') [my.domain] nasefirma.cz
DNS nameservers? (IP address list or 'none') [none] 192.168.9.4_
```

Zvolíme, zda startovat sshd, resp. zda používat X. A jestli chceme přepnout na seriovou konsoli.



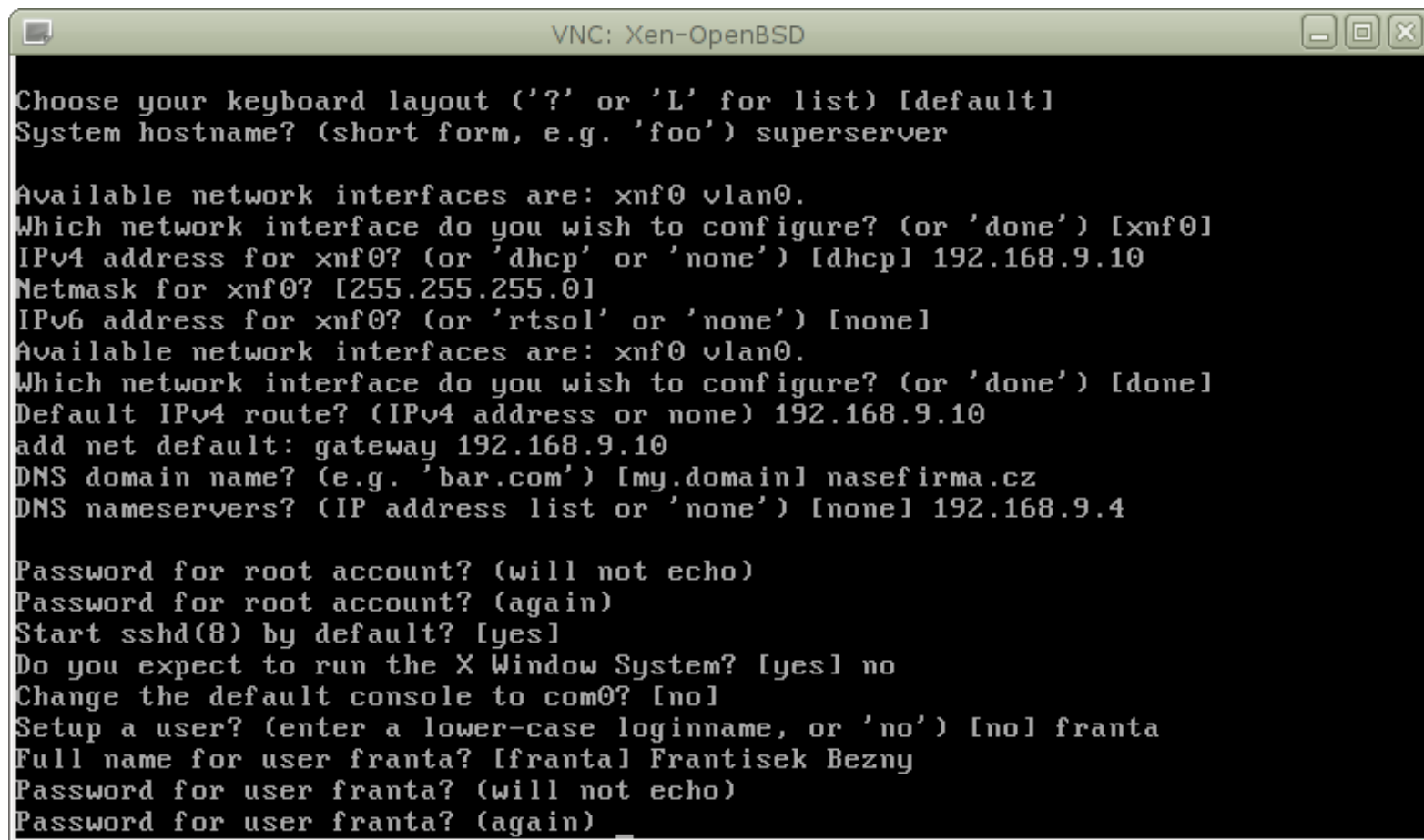
```
VNC: Xen-OpenBSD
At any prompt except password prompts you can escape to a shell by
typing '!'. Default answers are shown in []'s and are selected by
pressing RETURN. You can exit this program at any time by pressing
Control-C, but this can leave your system in an inconsistent state.

Choose your keyboard layout ('?' or 'L' for list) [default]
System hostname? (short form, e.g. 'foo') superserver

Available network interfaces are: xnf0 vlan0.
Which network interface do you wish to configure? (or 'done') [xnf0]
IPv4 address for xnf0? (or 'dhcp' or 'none') [dhcp] 192.168.9.10
Netmask for xnf0? [255.255.255.0]
IPv6 address for xnf0? (or 'rtsol' or 'none') [none]
Available network interfaces are: xnf0 vlan0.
Which network interface do you wish to configure? (or 'done') [done]
Default IPv4 route? (IPv4 address or none) 192.168.9.10
add net default: gateway 192.168.9.10
DNS domain name? (e.g. 'bar.com') [my.domain] nasefirma.cz
DNS nameservers? (IP address list or 'none') [none] 192.168.9.4

Password for root account? (will not echo)
Password for root account? (again)
Start sshd(8) by default? [yes]
Do you expect to run the X Window System? [yes] no
Change the default console to com0? [no]
```

Zadáme login, jméno a heslo uživatele. Při psaní hesla se nezobrazuje nic ani hvězdičky.

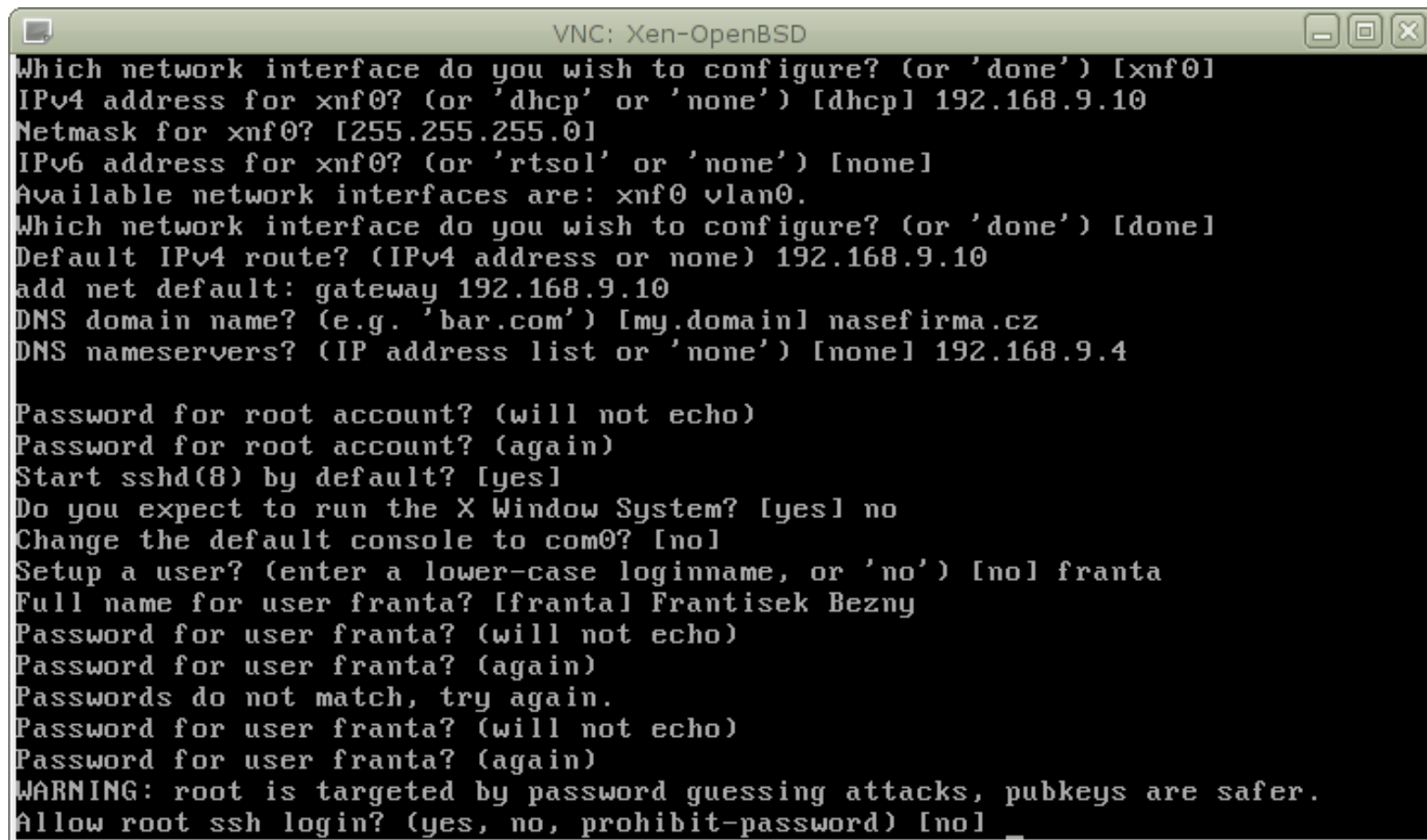


```
VNC: Xen-OpenBSD
Choose your keyboard layout ('?' or 'L' for list) [default]
System hostname? (short form, e.g. 'foo') superserver

Available network interfaces are: xnf0 vlan0.
Which network interface do you wish to configure? (or 'done') [xnf0]
IPv4 address for xnf0? (or 'dhcp' or 'none') [dhcp] 192.168.9.10
Netmask for xnf0? [255.255.255.0]
IPv6 address for xnf0? (or 'rtsol' or 'none') [none]
Available network interfaces are: xnf0 vlan0.
Which network interface do you wish to configure? (or 'done') [done]
Default IPv4 route? (IPv4 address or none) 192.168.9.10
add net default: gateway 192.168.9.10
DNS domain name? (e.g. 'bar.com') [my.domain] nasefirma.cz
DNS nameservers? (IP address list or 'none') [none] 192.168.9.4

Password for root account? (will not echo)
Password for root account? (again)
Start sshd(8) by default? [yes]
Do you expect to run the X Window System? [yes] no
Change the default console to com0? [no]
Setup a user? (enter a lower-case loginname, or 'no') [no] franta
Full name for user franta? [frantal] Frantisek Bezny
Password for user franta? (will not echo)
Password for user franta? (again)
```

Pro ssh přístup můžeme roota povolit „yes“ zakázat „no“ nebo povolit login roota klíčem.



```
VNC: Xen-OpenBSD
Which network interface do you wish to configure? (or 'done') [xnf0]
IPv4 address for xnf0? (or 'dhcp' or 'none') [dhcp] 192.168.9.10
Netmask for xnf0? [255.255.255.0]
IPv6 address for xnf0? (or 'rtsol' or 'none') [none]
Available network interfaces are: xnf0 vlan0.
Which network interface do you wish to configure? (or 'done') [done]
Default IPv4 route? (IPv4 address or none) 192.168.9.10
add net default: gateway 192.168.9.10
DNS domain name? (e.g. 'bar.com') [my.domain] nasefirma.cz
DNS nameservers? (IP address list or 'none') [none] 192.168.9.4

Password for root account? (will not echo)
Password for root account? (again)
Start sshd(8) by default? [yes]
Do you expect to run the X Window System? [yes] no
Change the default console to com0? [no]
Setup a user? (enter a lower-case loginname, or 'no') [no] franta
Full name for user franta? [frantal] Frantisek Bezny
Password for user franta? (will not echo)
Password for user franta? (again)
Passwords do not match, try again.
Password for user franta? (will not echo)
Password for user franta? (again)
WARNING: root is targeted by password guessing attacks, pubkeys are safer.
Allow root ssh login? (yes, no, prohibit-password) [no] _
```

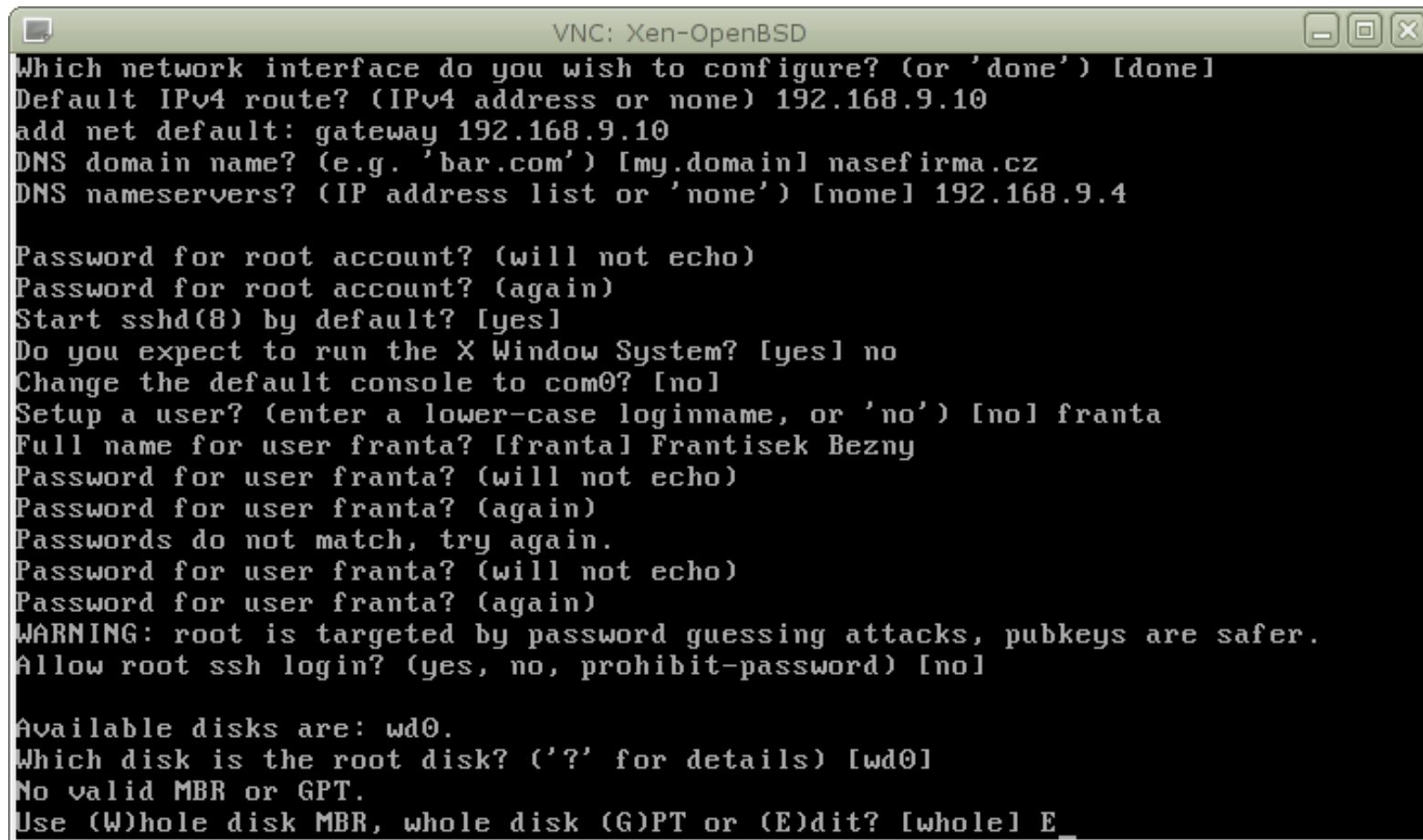
Zvolíme disk pro instalaci. První IDE je „wd0“, první SATA je „sd0“.

```
VNC: Xen-OpenBSD
IPv6 address for xnf0? (or 'rtsol' or 'none') [none]
Available network interfaces are: xnf0 vlan0.
Which network interface do you wish to configure? (or 'done') [done]
Default IPv4 route? (IPv4 address or none) 192.168.9.10
add net default: gateway 192.168.9.10
DNS domain name? (e.g. 'bar.com') [my.domain] nasefirma.cz
DNS nameservers? (IP address list or 'none') [none] 192.168.9.4

Password for root account? (will not echo)
Password for root account? (again)
Start sshd(8) by default? [yes]
Do you expect to run the X Window System? [yes] no
Change the default console to com0? [no]
Setup a user? (enter a lower-case loginname, or 'no') [no] franta
Full name for user franta? [franta] Frantisek Bezny
Password for user franta? (will not echo)
Password for user franta? (again)
Passwords do not match, try again.
Password for user franta? (will not echo)
Password for user franta? (again)
WARNING: root is targeted by password guessing attacks, pubkeys are safer.
Allow root ssh login? (yes, no, prohibit-password) [no]

Available disks are: wd0.
Which disk is the root disk? ('?' for details) [wd0] _
```

Pokud na disku bude jen OpenBSD,  
stiskni Enter, jinak „E“ pro edituj



```
VNC: Xen-OpenBSD
Which network interface do you wish to configure? (or 'done') [done]
Default IPv4 route? (IPv4 address or none) 192.168.9.10
add net default: gateway 192.168.9.10
DNS domain name? (e.g. 'bar.com') [my.domain] nasefirma.cz
DNS nameservers? (IP address list or 'none') [none] 192.168.9.4

Password for root account? (will not echo)
Password for root account? (again)
Start sshd(8) by default? [yes]
Do you expect to run the X Window System? [yes] no
Change the default console to com0? [no]
Setup a user? (enter a lower-case loginname, or 'no') [no] franta
Full name for user franta? [franta] Frantisek Bezny
Password for user franta? (will not echo)
Password for user franta? (again)
Passwords do not match, try again.
Password for user franta? (will not echo)
Password for user franta? (again)
WARNING: root is targeted by password guessing attacks, pubkeys are safer.
Allow root ssh login? (yes, no, prohibit-password) [no]

Available disks are: wd0.
Which disk is the root disk? ('?' for details) [wd0]
No valid MBR or GPT.
Use (W)hole disk MBR, whole disk (G)PT or (E)dit? [whole] E_
```

# Pokud editujeme disk, zobrazme si help, abychom viděli možnosti

```
VNC: Xen-OpenBSD
#       Starting      Ending      LBA Info:
#: id   C   H   S -   C   H   S [   start:   size ]
-----
0: 00   0   0   0 -   0   0   0 [   0:       0 ] unused
1: 00   0   0   0 -   0   0   0 [   0:       0 ] unused
2: 00   0   0   0 -   0   0   0 [   0:       0 ] unused
3: 00   0   0   0 -   0   0   0 [   0:       0 ] unused
Enter 'help' for information
fdisk: 1> help
      help          Command help list
      manual        Show entire OpenBSD man page for fdisk
      reinit        Re-initialize loaded MBR (to defaults)
      setpid        Set the identifier of a given table entry
      disk          Edit current drive stats
      edit          Edit given table entry
      flag          Flag given table entry as bootable
      update        Update machine code in loaded MBR
      select        Select extended partition table entry MBR
      swap          Swap two partition entries
      print         Print loaded MBR partition table
      write         Write loaded MBR to disk
      exit          Exit edit of current MBR, without saving changes
      quit          Quit edit of current MBR, saving current changes
      abort         Abort program without saving current changes
fdisk: 1> _
```



# Pokud editujeme, partici pro OpenBSD označíme ji bootable: „f“

```
VNC: Xen-OpenBSD
exit          Exit edit of current MBR, without saving changes
quit         Quit edit of current MBR, saving current changes
abort        Abort program without saving current changes
fdisk: 1> e 3
Starting      Ending      LBA Info:
#: id        C  H  S -      C  H  S [      start:      size |
-----
3: 00        0  0  0 -      0  0  0 [      0:          0 | unused
Partition id ('0' to disable) [01 - FF]: [0] (? for help) A6
Do you wish to edit in CHS mode? [n]
Partition offset [0 - 20971520]: [0] 63
Partition size [1 - 20971457]: [1] 20971457
fdisk:*1> p
Disk: wd0      geometry: 1305/255/63 [20971520 Sectors]
Offset: 0      Signature: 0x0
Starting      Ending      LBA Info:
#: id        C  H  S -      C  H  S [      start:      size |
-----
0: 00        0  0  0 -      0  0  0 [      0:          0 | unused
1: 00        0  0  0 -      0  0  0 [      0:          0 | unused
2: 00        0  0  0 -      0  0  0 [      0:          0 | unused
3: A6        0  1  1 -     1305 106 17 [     63:    20971457 | OpenBSD
fdisk:*1> f 3
Partition 3 marked active.
fdisk:*1>
```

Fdisk ukončíme „w“ a „q“, potom nám nabídne rozvržení disklabelu.

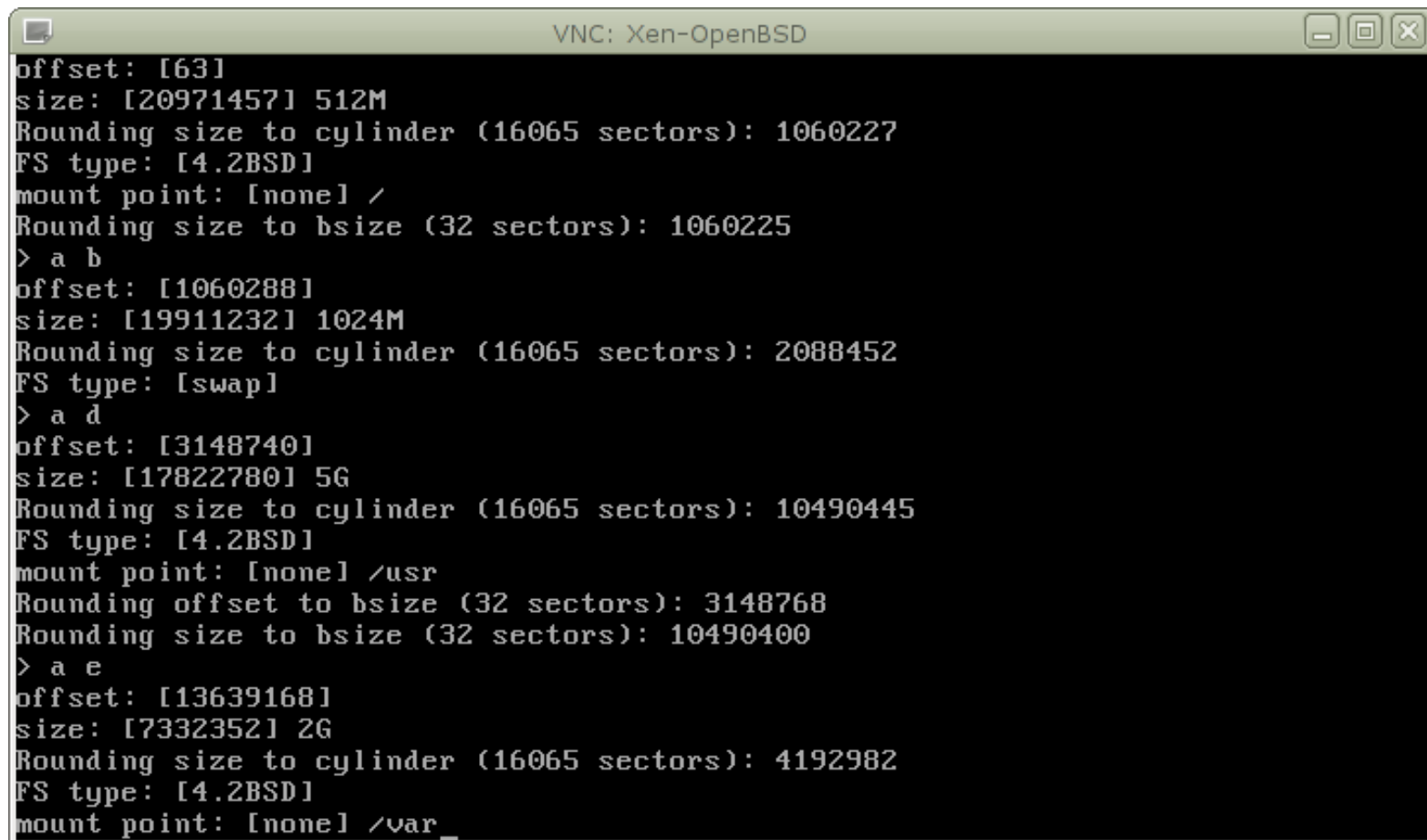
```
VNC: Xen-OpenBSD
#:#: id      C  H  S -      C  H  S [      start:      size ]
-----
0: 00      0  0  0 -      0  0  0 [      0:          0 ] unused
1: 00      0  0  0 -      0  0  0 [      0:          0 ] unused
2: 00      0  0  0 -      0  0  0 [      0:          0 ] unused
3: A6      0  1  1 -    1305 106 17 [      63:      20971457 ] OpenBSD
fdisk:*1> f 3
Partition 3 marked active.
fdisk:*1> w
Writing MBR at offset 0.
fdisk: 1> q
The auto-allocated layout for wd0 is:
#          size          offset  fstype  [fsize bsize  cpg]
a:         233.6M           63    4.2BSD   2048 16384    1 # /
b:         387.2M       478464    swap
c:       10240.0M           0    unused
d:         365.7M     1271456    4.2BSD   2048 16384    1 # /tmp
e:         479.3M     2020480    4.2BSD   2048 16384    1 # /var
f:       1053.6M     3002176    4.2BSD   2048 16384    1 # /usr
g:         604.2M     5159936    4.2BSD   2048 16384    1 # /usr/X11R6
h:       2355.2M     6397248    4.2BSD   2048 16384    1 # /usr/local
i:       1085.4M     11220672    4.2BSD   2048 16384    1 # /usr/src
j:       1422.9M     13443648    4.2BSD   2048 16384    1 # /usr/obj
k:       2252.8M     16357696    4.2BSD   2048 16384    1 # /home
Use (A)uto layout, (E)dit auto layout, or create (C)ustom layout? [a] c_
```

# Zvolíme custom a prohlédneme si nabídku příkazů pomocí „?“

```
VNC: Xen-OpenBSD
j:          1422.9M      13443648  4.2BSD   2048 16384    1 # /usr/obj
k:          2252.8M      16357696  4.2BSD   2048 16384    1 # /home
Use (A)uto layout, (E)dit auto layout, or create (C)ustom layout? [a] c
Label editor (enter '?' for help at any prompt)
> ?
Available commands:
? | h      - show help
A          - auto partition all space
a [part]  - add partition
b         - set OpenBSD boundaries
c [part]  - change partition size
D         - reset label to default
d [part]  - delete partition
e         - edit drive parameters
g [d|u]   - [disk or [ulser geometry
i         - modify disklabel UID
l [unit]  - print disk label header
M         - disklabel(8) man page
m [part]  - modify partition
n [part]  - set mount point
p [unit]  - print partitions
q         - quit & save changes
R [part]  - resize auto allocated partition
r         - display free space
s [path]  - save label to file
U         - undo all changes
u         - undo last change
w         - write label to disk
X         - toggle expert mode
x         - exit & lose changes
z         - delete all partitions

Suffixes can be used to indicate units other than sectors:
'b' (bytes), 'k' (kilobytes), 'm' (megabytes), 'g' (gigabytes) 't' (terabytes)
'c' (cylinders), '%' (% of total disk), '&' (% of free space).
Values in non-sector units are truncated to the nearest cylinder boundary.
>
```

Vytvoříme základní partice (root „/“ musí být na „a“, začne na 63 sec a doporučuji nepřekročit 512MB)



```
VNC: Xen-OpenBSD
offset: [63]
size: [20971457] 512M
Rounding size to cylinder (16065 sectors): 1060227
FS type: [4.2BSD]
mount point: [none] /
Rounding size to bsize (32 sectors): 1060225
> a b
offset: [1060288]
size: [19911232] 1024M
Rounding size to cylinder (16065 sectors): 2088452
FS type: [swap]
> a d
offset: [3148740]
size: [17822780] 5G
Rounding size to cylinder (16065 sectors): 10490445
FS type: [4.2BSD]
mount point: [none] /usr
Rounding offset to bsize (32 sectors): 3148768
Rounding size to bsize (32 sectors): 10490400
> a e
offset: [13639168]
size: [7332352] 2G
Rounding size to cylinder (16065 sectors): 4192982
FS type: [4.2BSD]
mount point: [none] /var
```

Uložíme „w“ a ukončíme „q“,  
následně začne partice formátovat.

```
VNC: Xen-OpenBSD
size: [514102]
FS type: [unknown] 4.2BSD
mount point: [none] /home
Rounding size to bsize (32 sectors): 514080
> w
> q
No label changes.
/dev/rwd0a: 517.7MB in 1060224 sectors of 512 bytes
4 cylinder groups of 129.42MB, 8283 blocks, 16640 inodes each
newfs: reduced number of fragments per cylinder group from 32128 to 31992 to enl
arge last cylinder group
/dev/rwd0f: 251.0MB in 514080 sectors of 512 bytes
5 cylinder groups of 62.48MB, 3999 blocks, 8064 inodes each
/dev/rwd0d: 5122.3MB in 10490400 sectors of 512 bytes
26 cylinder groups of 202.47MB, 12958 blocks, 25984 inodes each
/dev/rwd0e: 2047.3MB in 4192960 sectors of 512 bytes
11 cylinder groups of 202.47MB, 12958 blocks, 25984 inodes each
/dev/wd0a (0f1367ace04f58a9.a) on /mnt type ffs (rw, asynchronous, local)
/dev/wd0f (0f1367ace04f58a9.f) on /mnt/home type ffs (rw, asynchronous, local, n
odev, nosuid)
/dev/wd0d (0f1367ace04f58a9.d) on /mnt/usr type ffs (rw, asynchronous, local, no
dev)
/dev/wd0e (0f1367ace04f58a9.e) on /mnt/var type ffs (rw, asynchronous, local, no
dev, nosuid)
```

# Při výběru částí distribuce můžeme pomocí + a – ubírat či přidávat:

```
VNC: Xen-OpenBSD
dev, nosuid)

Let's install the sets!
Location of sets? (cd0 disk http or 'done') [cd0]
Pathname to the sets? (or 'done') [5.9/amd64]

Select sets by entering a set name, a file name pattern or 'all'. De-select
sets by prepending a '-' to the set name, file name pattern or 'all'. Selected
sets are labelled '[X]'.
  [X] bsd          [X] base59.tgz    [X] game59.tgz    [X] xfont59.tgz
  [X] bsd.rd      [X] comp59.tgz    [X] xbase59.tgz  [X] xserv59.tgz
  [ ] bsd.mp      [X] man59.tgz     [X] xshare59.tgz
Set name(s)? (or 'abort' or 'done') [done] -xa
  [X] bsd          [X] base59.tgz    [X] game59.tgz    [X] xfont59.tgz
  [X] bsd.rd      [X] comp59.tgz    [X] xbase59.tgz  [X] xserv59.tgz
  [ ] bsd.mp      [X] man59.tgz     [X] xshare59.tgz
Set name(s)? (or 'abort' or 'done') [done] -x*
  [X] bsd          [X] base59.tgz    [X] game59.tgz    [ ] xfont59.tgz
  [X] bsd.rd      [X] comp59.tgz    [ ] xbase59.tgz  [ ] xserv59.tgz
  [ ] bsd.mp      [X] man59.tgz     [ ] xshare59.tgz
Set name(s)? (or 'abort' or 'done') [done] +x*
  [X] bsd          [X] base59.tgz    [X] game59.tgz    [X] xfont59.tgz
  [X] bsd.rd      [X] comp59.tgz    [X] xbase59.tgz  [X] xserv59.tgz
  [ ] bsd.mp      [X] man59.tgz     [X] xshare59.tgz
Set name(s)? (or 'abort' or 'done') [done] _
```

Při instalaci z CD netřeba verifikaci, takže zvolíme „yes“.

```
VNC: Xen-OpenBSD
Directory does not contain SHA256.sig. Continue without verification? [no]
Location of sets? (cd0 disk http or 'done') [cd0]
Pathname to the sets? (or 'done') [5.9/amd64]

Select sets by entering a set name, a file name pattern or 'all'. De-select
sets by prepending a '-' to the set name, file name pattern or 'all'. Selected
sets are labelled '[X]'.
  [X] bsd          [X] base59.tgz    [X] game59.tgz    [X] xfont59.tgz
  [X] bsd.rd      [X] comp59.tgz    [X] xbase59.tgz  [X] xserv59.tgz
  [ ] bsd.mp      [X] man59.tgz     [X] xshare59.tgz
Set name(s)? (or 'abort' or 'done') [done] -x*
  [X] bsd          [X] base59.tgz    [X] game59.tgz    [ ] xfont59.tgz
  [X] bsd.rd      [X] comp59.tgz    [ ] xbase59.tgz  [ ] xserv59.tgz
  [ ] bsd.mp      [X] man59.tgz     [ ] xshare59.tgz
Set name(s)? (or 'abort' or 'done') [done] -gam*
  [X] bsd          [X] base59.tgz    [ ] game59.tgz    [ ] xfont59.tgz
  [X] bsd.rd      [X] comp59.tgz    [ ] xbase59.tgz  [ ] xserv59.tgz
  [ ] bsd.mp      [X] man59.tgz     [ ] xshare59.tgz
Set name(s)? (or 'abort' or 'done') [done] +x*
  [X] bsd          [X] base59.tgz    [ ] game59.tgz    [X] xfont59.tgz
  [X] bsd.rd      [X] comp59.tgz    [X] xbase59.tgz  [X] xserv59.tgz
  [ ] bsd.mp      [X] man59.tgz     [X] xshare59.tgz
Set name(s)? (or 'abort' or 'done') [done]
Directory does not contain SHA256.sig. Continue without verification? [no] yes
Installing bsd          90% |*****| 9088 KB  00:00 ETA
```

# Nakonec zvolíme časovou zónu „CET“ a ukončíme instalaci

```
VNC: Xen-OpenBSD
Set name(s)? (or 'abort' or 'done') [done]
Directory does not contain SHA256.sig. Continue without verification? [no] yes
Installing bsd          100% |*****| 10004 KB  00:04
Installing bsd.rd      100% |*****| 7581 KB   00:02
Installing base59.tgz  100% |*****| 51606 KB  00:36
Extracting etc.tgz     100% |*****| 188 KB    00:00
Installing comp59.tgz  100% |*****| 50520 KB  00:36
Installing man59.tgz   100% |*****| 8779 KB   00:06
Installing xbase59.tgz 100% |*****| 22693 KB  00:15
Extracting xetc.tgz    100% |*****| 8971      00:00
Installing xshare59.tgz 100% |*****| 4420 KB   00:05
Installing xfont59.tgz 100% |*****| 39070 KB  00:21
Installing xserv59.tgz 100% |*****| 20530 KB  00:12
Location of sets? (cd0 disk http or 'done') [done]

What timezone are you in? ('?' for list) [Canada/Mountain] CET
Saving configuration files...done.
Making all device nodes...done.

CONGRATULATIONS! Your OpenBSD install has been successfully completed!
To boot the new system, enter 'reboot' at the command prompt.
When you login to your new system the first time, please read your mail
using the 'mail' command.

#
```



# Příkazem „halt -p“ vypneme PC, odebereme CD a hotovo.

```
VNC: Xen-OpenBSD
Installing comp59.tgz 100% |*****| 50520 KB 00:36
Installing man59.tgz 100% |*****| 8779 KB 00:06
Installing xbase59.tgz 100% |*****| 22693 KB 00:15
Extracting xetc.tgz 100% |*****| 8971 00:00
Installing xshare59.tgz 100% |*****| 4420 KB 00:05
Installing xfont59.tgz 100% |*****| 39070 KB 00:21
Installing xserv59.tgz 100% |*****| 20530 KB 00:12
Location of sets? (cd0 disk http or 'done') [done]

What timezone are you in? ('?' for list) [Canada/Mountain] CET
Saving configuration files...done.
Making all device nodes...done.

CONGRATULATIONS! Your OpenBSD install has been successfully completed!
To boot the new system, enter 'reboot' at the command prompt.
When you login to your new system the first time, please read your mail
using the 'mail' command.

# halt -p
syncing disks... done

The operating system has halted.
Please press any key to reboot.
```

# Gratuluji!

- Pokud narazíte na problémy, pište mi na:  
[petr@topiarz.cz](mailto:petr@topiarz.cz)
- Nebo hledejte v sekci Linuxdays 2016 na  
<http://www.openunix.eu>

Děkuji za pozornost

Petr Topiarz