

FreeBSD opdatering

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Indhold

- Opdatering af selve FreeBSD
- Opdatering ports/pakker
- Rollback muligheder
- Egne repositories
- ...?

Opdatering af FreeBSD

- Fra kildekode
 - SVN
- Binære patches
 - freebsd-update

Opdatering af FreeBSD

```
cd /usr/src  
svn co svn+ssh://svn.freebsd.org/base/releng/10.0  
  
svn up  
  
make buildworld && make buildkernel  
etc.
```

<http://www.freebsd.org/doc/en/articles/committers-guide/subversion-primer.html>

Opdatering af FreeBSD

freebsd-update

With `-r 10.1` will update to next release.

`/etc/freebsd-update.conf`

Control `fx` paths to exclude.

freebsd-update cron

Run from cron to check for updates.

http://www.freebsd.org/doc/en_US.ISO8859-1/books/handbook/updating-upgrading-freebsdupdate.html

Opdatering af ports

Opdatering via kildekode

```
portsnap fetch
```

```
portsnap extract/update
```

```
svn co svn+ssh://svn.freebsd.org/ports/head/
```

```
Efterfulgt af portmaster/portupgrade (kaffe)
```

Alternativt til /head/ er /branches/RELENG_n_n_n

- matchende til FreeBSD releases
- kan få sikkerheds opdateringer

Opdatering af ports

Binær opdatering med pkgng

`pkg upgrade`

:)

pkgng

Igang med pkgng

```
/usr/sbin/pkg
```

```
echo 'WITH_PKGNG="yes"' >> /etc/make.conf
```

```
pkg2ng
```

```
/usr/local/etc/ports.conf (edit or delete)
```

```
/etc/pkg or /usr/local/etc/pkg/repos  
contains configuration
```


pkgng

Igang med pkgng

`pkg update`

`pkg search`

`pkg install`

`pkg help/ man pkg-<subject>`

http://www.freebsd.org/doc/en_US.ISO8859-1/books/handbook/pkgng-intro.html

pkgng

Igang med pkgng

```
pkg version
```

```
% pkg version
ap22-mod_perl2-2.0.8,3      =
apache22-2.2.27           =
apr-1.5.0.1.5.3           =
autoconf-2.69             =
autoconf-wrapper-20131203 =
beadm-1.0_1               <
bigreqsproto-1.1.2        =
bsdhwmon-20120702         =
cmake-2.8.12.1           <
```

pkgng

Igang med pkgng

```
pkg audit -F
```

```
% pkg audit
libxml2-2.8.0_3 is vulnerable:
libxml2 -- lack of end-of-document check DoS
CVE: CVE-2013-2877
WWW: http://portaudit.FreeBSD.org/e7bb3885-da40-11e3-9ecb-2c4138874f7d.html

samba36-3.6.23 is vulnerable:
samba -- multiple vulnerabilities
CVE: CVE-2014-3493
CVE: CVE-2014-0244
WWW: http://portaudit.FreeBSD.org/6ad309d9-fb03-11e3-bebd-000c2980a9f3.html

2 problem(s) in the installed packages found.

/etc/periodic.conf : daily_status_security_pkgaudit_enable="YES"
```

pkgng

Igang med pkgng

pkg upgrade

```
% # pkg upgrade
Updating repository catalogue
Upgrades have been requested for the following 29 packages:
```

```
Upgrading beadm: 1.0_1 -> 1.1_1
Upgrading cmake: 2.8.12.1 -> 2.8.12.1_4
Upgrading cups-client: 1.5.4_1 -> 1.7.3
[...snip...]
Upgrading libgcrypt: 1.5.3 -> 1.5.3_3
Upgrading libxslt: 1.1.28_1 -> 1.1.28_3
Upgrading samba36: 3.6.23 -> 3.6.24
```

Problemer...

Fx perl opgradering kræver

```
pkg set -o lang/perl5.12:lang/perl5.14
pkg install -Rf lang/perl5.14
```

rollback

freebsd-update rollback

zfs med beadm snapshots

```
% beadm list
```

BE	Active	Mountpoint	Space	Created
9.2-p7	-	-	900.0K	2014-06-04 13:40
9.2-p8	-	-	25.6M	2014-06-06 11:54
9.2-p9	-	-	23.1M	2014-06-25 06:35
9.2-p10	NR	/	4.5G	2014-07-09 09:26

```
% zfs list
```

NAME	USED	AVAIL	REFER	MOUNTPOINT
sys/R00T/9.2-p7	830K	1.73T	1.47G	legacy
sys/R00T/9.2-p7/tmp	33K	10.0G	56K	/tmp
sys/R00T/9.2-p7/var	580K	10.0G	1.11G	/var
sys/R00T/9.2-p8	2.88M	1.73T	1.45G	legacy
sys/R00T/9.2-p8/tmp	38K	10.0G	57K	/tmp
sys/R00T/9.2-p8/var	2.27M	10.0G	1.12G	/var
sys/R00T/9.2-p9	718K	1.73T	1.45G	legacy
sys/R00T/9.2-p9/tmp	34K	10.0G	58K	/tmp
sys/R00T/9.2-p9/var	474K	10.0G	1.15G	/var
sys/R00T/9.2-p10	4.56G	1.73T	1.47G	legacy
sys/R00T/9.2-p10/tmp	356K	10.0G	57K	/tmp
sys/R00T/9.2-p10/var	1.33G	8.67G	1.23G	/var

rollback

zfs med beadm snapshots

Når man installerer skal man lave en pool med sub-dataset.

```
zpool create sys
zfs set mountpoint=none sys
zfs create sys/ROOT
zfs create -o mountpoint=/ sys/ROOT/10.0
zpool set bootfs=sys/ROOT/10.0 sys
zfs create sys/ROOT/var
zfs create sys/ROOT/tmp
```

etc...

sys, ROOT og 10.0 kan man navngive som man vil – men god ide at det giver mening!

rollback

zfs med beadm snapshots

Boot (rollback) kan styres på to måder

Standard FreeBSD boot loader

```
/boot/loader.conf  
zfs_load="YES"  
vfs.root.mountfrom="zfs:sys/R00T/9.2-p10"
```

Kræver at man selv ændrer `vfs.root.mountfrom` fra bootloaderen!

Alternativt kan man bruge `grub2`.

man `beadm`

rollback

zfs med beadm snapshots

```
beadm create 10.1  
beadm activate 10.1  
reboot  
freebsd-update -r 10.1  
reboot
```

Man kan ikke rename et Boot Environment man benytter – derfor er reboot nødvendigt for at kunne lave versionerede BE's.

Oprydning

```
beadm destroy 9.2-p10
```


poudriere

Poudriere

Pakkebyggeværktøj som bygger pkgng pakker ud fra ports.

Nem måde at bygge custom pakker på.

Fungerer bedst med ZFS.

Laver et jail til at bygge pakker i.

<http://www.freebsd.org/doc/handbook/ports-poudriere.html>
<http://www.bsdnw.tv/tutorials/poudriere>