

Tuning Squid HTTP Proxy

First you should install Squid from ports and compile with options to support diskd.

1. Install Squid from ports.

```
cd /usr/ports/www/squid
make install
```

2. Compile Squid with diskd support:

```
cd /usr/ports/www/squid/work/squid-2.5.STABLE9
```

```
./configure --bindir=/usr/local/sbin --sysconfdir=/usr/local/etc/squid --datadir=/usr/local/etc/squid --
libexecdir=/usr/local/libexec/squid --localstatedir=/usr/local/squid --enable-removal-policies=lru,heap --enable-
auth=basic,ntlm,digest --enable-basic-auth-helpers=NCSA,PAM,MSNT,SMB,winbind,YP --enable-digest-auth-
helpers=password --enable-external-acl-helpers=ip_user,unix_group,wbinfinfo_group,winbind_group --enable-ntlm-auth-
helpers=SMB,winbind --enable-storeio=ufs,diskd,null --enable-underscores --enable-err-languages=English --enable-
default-err-language=Romanian --with-large-files --enable-large-cache-files --enable-delay-pools --enable-ipf-transparent
--disable-ident-lookups --enable-snmp --enable-removal-policies --prefix=/usr/local i386-portbld-freebsd5.4
```

```
make install
```

3. Add FreeBSD sysctl parameters into your /boot/loader.conf:

```
kern.ipc.nmbclusters: 32768
kern.maxfiles=65536
kern.maxfilesperproc=32768
net.inet.ip.portrange.last: 65535
```

4. Compile kernel with this options:

```
options SHMSEG=16
options SHMMNI=32
options SHMMAX=2097152
options SHMALL=4096
options MAXFILES=8192
```

5. Your squid.conf should like like that:

(please modify the path where your stored squid cache, the size of cache and also the allowed ip range for your squid daemon. Don't forget to do a 'squid -z' if you did not, at install time (for creating cache directories).

```
#my settings
http_port 8080
icp_port 0
hierarchy_stoplist cgi-bin ?
acl QUERY urlpath_regex cgi-bin \?
no_cache deny QUERY
cache_mem 128 MB

maximum_object_size 80000 KB
ipcache_size 1024
ipcache_low 90
ipcache_high 95
cache_dir diskd /mnt/squid 28000 32 512 Q1=72 Q2=64

log_fqdn off
logfile_rotate 10

dns_nameservers 10.0.0.1

auth_param basic children 5
auth_param basic realm Squid proxy-caching web server
auth_param basic credentialsttl 2 hours
refresh_pattern ^ftp: 1440 20% 10080
refresh_pattern ^gopher: 1440 0% 1440
```

```
refresh_pattern . 0 20% 4320
```

```
#next, remove
```

```
acl localnet src 10.0.0.0/255.255.0.0
```

```
acl localhost src 127.0.0.1/255.255.255.255
```

```
acl to_localhost dst 127.0.0.0/8
```

```
acl SSL_ports port 443 563
```

```
acl Safe_ports port 80 21 443 563 210 1025-65535 280 488 591 777
```

```
acl CONNECT method CONNECT
```

```
acl all src 0.0.0.0/0.0.0.0
```

```
http_access deny !Safe_ports
```

```
http_access allow localnet
```

```
http_reply_access allow all
```

```
visible_hostname localhost
```

```
httpd_accel_host virtual
```

```
httpd_accel_port 80
```

```
httpd_accel_with_proxy on
```

```
httpd_accel_uses_host_header on
```

```
coredump_dir /usr/local/squid/cache
```