

OPNsense

- Update and/or upgrade of OPNsense in GCP
- Determine the best server for OPNsense updates and upgrades

Update and/or upgrade of OPNsense in GCP

Considerations:

Time: from v24 to v25 it took around two-three hours to complete upgrades.

Prepare

Console

```
gcloud config set disable_usage_reporting true
gcloud config set accessibility/screen_reader false

gcloud auth login
? gcloud auth login --no-browser
gcloud auth list
gcloud config set account (account)

gcloud projects list
gcloud config set project (project)
gcloud config list project

gcloud compute regions list
gcloud config set compute/region europe-north1

gcloud compute zones list
gcloud config set compute/zone europe-north1-c
```

Backup

Take a snapshot

```
gcloud compute disks list
? gcloud compute disks list --filter="users:instance='gcp1fw1'" --zone=europe-north1-c
# no dots allowed in the name
gcloud compute snapshots create gcp1fw1-2025-05-03-1256 --source-disk='gcp1fw1'
gcloud compute snapshots list
```

Perform update

This can be performed over WebUI or CLI:

WebUI

screenshots here

CLI

Connect to OPNsense console (in my case, I do it from jumphost within GCP)

```
ssh root@10.166.0.x
```

Choose 8) Shell

```
# Unlock to permit updates
opnsense-update -U

uname -a
opnsense-version
# seelct and update base
opnsense-update -b
opnsense-update -B
# select and update kernel
opnsense-update -k
```


to

Last login: Sat May 3 14:05:23 2025 from 10.166.0.x

```
-----
| Hello, this is OPNsense 25.1 | .....
|                               | .....
| Website: https://opnsense.org/ | ::  ::
| Handbook: https://docs.opnsense.org/ | ::  ::
| Forums: https://forum.opnsense.org/ | ::  ::
| Code: https://github.com/opnsense | `.....
| Reddit: https://reddit.com/r/opnsense | `.....
-----
```

Determine the best server for OPNsense updates and upgrades

Wherever you are on the planet, there is a need to determine, which server out of many is accessible and which has the lowest latency.

Let's create a mirrors list

```
vi mirrors.list
```

Mirrors (this one was reverse engineered from official OPNsense page)

```
https://ftp.cc.uoc.gr/mirrors/opnsense/  
https://mirror-opnsense.serverbase.ch/  
https://mirror.aarnet.edu.au/pub/opnsense/  
https://mirror.ams1.nl.leaseweb.net/opnsense/  
https://mirror.catalyst.net.nz/opnsense/  
https://mirror.cedia.org.ec/opnsense/  
https://mirror.cloudfence.com.br/opnsense/  
https://mirror.cs.odu.edu/opnsense/  
https://mirror.distly.kr/opnsense/  
https://mirror.dns-root.de/opnsense/  
https://mirror.eliv.digital/opnsense/  
https://mirror.fra10.de.leaseweb.net/opnsense/  
https://mirror.hemino.net/opnsense/  
https://mirror.init7.net/opnsense/  
https://mirror.keiminem.com/opnsense/  
https://mirror.koreapixel.kr/opnsense/  
https://mirror.krfoss.org/opnsense/  
https://mirror.leitecastro.com/opnsense/  
https://mirror.level66.network/opnsense-dist/  
https://mirror.marwan.ma/opnsense/  
https://mirror.meowsmp.net/opnsense/
```

```
https://mirror.mtl2.ca.leaseweb.net/opnsense/  
https://mirror.ntct.edu.tw/opnsense/  
https://mirror.pangkin.com/opnsense/  
https://mirror.raiolanetworks.com/opnsense/  
https://mirror.serverion.com/opnsense/  
https://mirror.sfo12.us.leaseweb.net/opnsense/  
https://mirror.techlabs.co.kr/opnsense/  
https://mirror.ueb.edu.ec/opnsense/  
https://mirror.uvensys.de/opnsense/  
https://mirror.venturasystems.tech/opnsense/  
https://mirror.verinomi.com/opnsense/  
https://mirror.vraphim.com/opnsense/  
https://mirror.wdc1.us.leaseweb.net/opnsense/  
https://mirror.winsub.kr/opnsense/  
https://mirror.zyner.org/mirror/opnsense/  
https://mirror.zzunipark.com/opnsense/  
https://mirror1.isatisidc.ir/opnsense/  
https://mirrors.dotsrc.org/opnsense/  
https://mirrors.hopbox.net/opnsense/  
https://mirrors.komogoto.com/opnsense/  
https://mirrors.nycbug.org/pub/opnsense/  
https://mirrors.ocf.berkeley.edu/opnsense/  
https://mirrors.pku.edu.cn/opnsense/  
https://opnsense-mirror.hiho.ch/  
https://opnsense.aivian.org/  
https://opnsense.c0urier.net/  
https://opnsense.org/download/  
https://pkg.opnsense.org/  
https://www.mirrorservice.org/sites/opnsense.org/
```

Once that done, let's create a script to ping all of them

```
vi url-speed-rank.sh
```

bash code

```
#!/usr/bin/env bash  
# url-speed-rank.sh  
  
# Author: dox.installanduse.com
```

```

# History:
#   2026-04-08 * init /A

# Combines:
# - ICMP RTT average per host (ping)
# - HTTP(S) total time per URL (curl)
# Outputs a sorted table + summary with the fastest N URLs (default 3).

set -o pipefail

VERBOSE=0
TOPN=3

# Ping knobs
PING_COUNT=3
PING_TIMEOUT=1 # seconds (best-effort portable)

# Curl knobs
CURL_TIMEOUT=5 # seconds

usage() {
    cat >&2 <<EOF
Usage: $0 [-v] [-n TOPN] [-c PING_COUNT] [-p PING_TIMEOUT] [-t CURL_TIMEOUT] <urls_file>

-v          verbose progress (stderr)
-n TOPN     how many fastest URLs to summarize (default: ${TOPN})
-c PING_COUNT ping packets per host (default: ${PING_COUNT})
-p PING_TIMEOUT ping timeout per packet, seconds (default: ${PING_TIMEOUT})
-t CURL_TIMEOUT curl max time per URL, seconds (default: ${CURL_TIMEOUT})

Input file:
- one URL/host per line
- empty lines and lines starting with # are ignored
- if scheme missing, https:// is assumed
EOF
    exit 1
}

log() { [[ "$VERBOSE" -eq 1 ]] && echo "$*" >&2; }

```

```

while getopts ":vn:c:p:t:" opt; do
    case "$opt" in
        v) VERBOSE=1 ;;
        n) TOPN="$OPTARG" ;;
        c) PING_COUNT="$OPTARG" ;;
        p) PING_TIMEOUT="$OPTARG" ;;
        t) CURL_TIMEOUT="$OPTARG" ;;
        *) usage ;;
    esac
done
shift $((OPTIND - 1))

INPUT="$1"
[[ -z "$INPUT" ]] && usage
[[ ! -r "$INPUT" ]] && { echo "Error: cannot read file '$INPUT'" >&2; exit 1; }

tmp_urls="$(mktemp)"
tmp_hosts="$(mktemp)"
tmp_ping="$(mktemp)"
tmp_results="$(mktemp)"

cleanup() { rm -f "$tmp_urls" "$tmp_hosts" "$tmp_ping" "$tmp_results"; }
trap cleanup EXIT

# 1) Normalize input → list of URLs (deduped)
# - skip empty/comments
# - prepend https:// if missing scheme
awk '
    /^[[:space:]]*$/ { next }
    /^[[:space:]]*#/ { next }
    {
        gsub(/^[[:space:]]+|[[:space:]]+$/, "", $0)
        url=$0
        if (url !~ /^https?:\/\//) url="https://" url
        if (!seen[url]++) print url
    }
' "$INPUT" > "$tmp_urls"

TOTAL_URLS="$(wc -l < "$tmp_urls" | tr -d ' ')"
[[ "$TOTAL_URLS" -eq 0 ]] && { echo "No URLs to test (after filtering comments/empty lines)." >&2; exit 1; }

```

2) Extract unique hosts from URLs

host = strip scheme, then cut at first /, :, ?,

```
sed -E 's|^[a-zA-Z]+://|; s|[/?#].*$||; s|:.*$||' "$tmp_urls" | sort -u > "$tmp_hosts"
```

3) Ping each host once → avg RTT (ms) or 999999 on failure

```
ping_avg_ms() {
```

```
    local host="$1"
```

```
    local out
```

```
# Try Linux-style first, then alternate (some environments differ).
```

```
if out="$(ping -c "$PING_COUNT" -W "$PING_TIMEOUT" "$host" 2>/dev/null)"; then
```

```
:
```

```
elif out="$(ping -c "$PING_COUNT" -t "$PING_TIMEOUT" "$host" 2>/dev/null)"; then
```

```
:
```

```
else
```

```
    echo "999999"
```

```
    return 0
```

```
fi
```

```
# Linux: "rtt min/avg/max/mdev = 10.1/11.2/..."
```

```
# macOS: "round-trip min/avg/max/stddev = 10.1/11.2/..."
```

```
awk -F'/' '/round-trip|rtt/ {print $5; found=1} END{ if(!found) print "999999" }' <<<"$out"
```

```
}
```

```
log "[*] Pinging hosts ($(wc -l < "$tmp_hosts" | tr -d ' ') unique) ..."
```

```
while IFS= read -r host; do
```

```
    [[ -z "$host" ]] && continue
```

```
    log "    ping: $host"
```

```
    avg="$(ping_avg_ms "$host")"
```

```
    printf "%s\t%s\n" "$host" "$avg" >> "$tmp_ping"
```

```
done < "$tmp_hosts"
```

4) Test each URL with curl → time_total + http_code; join ping by host

```
log "[*] Curling URLs (${TOTAL_URLS}) ..."
```

```
while IFS= read -r url; do
```

```
    log "    curl: $url"
```

```
host="$(sed -E 's|^[a-zA-Z]+://|; s|[/?#].*$||; s|:.*$||' <<<"$url")"
```

```
ping_ms="$(awk -F'\t' -v h="$host" '$1==h{print $2; found=1} END{if(!found) print "999999"}' "$tmp_ping")"
```

```
# We capture both time_total and http_code. On hard error, curl prints nothing; treat as failure.
```

```
curl_out="$(curl \  
--silent \  
--output /dev/null \  
--location \  
--max-time "$CURL_TIMEOUT" \  
--write-out "%{time_total}\t%{http_code}" \  
"$url" 2>/dev/null || true)"
```

```
curl_time="$(awk -F\t '{print $1}' <<<"$curl_out")"
```

```
http_code="$(awk -F\t '{print $2}' <<<"$curl_out")"
```

```
if [[ -z "$curl_time" || "$curl_time" == "0.000"* ]]; then
```

```
    curl_time="999.999"
```

```
    http_code="{http_code:-000}"
```

```
    status="FAIL"
```

```
else
```

```
    # Consider 2xx/3xx as OK
```

```
    if [[ "$http_code" =~ ^2|^3 ]]; then
```

```
        status="OK"
```

```
    else
```

```
        status="HTTP_$http_code"
```

```
    fi
```

```
fi
```

```
# Sort key first (curl seconds), then printable columns
```

```
# Columns: CURL_S PING_MS HTTP STATUS URL
```

```
printf "%08.3f\t%10.2f\t%3s\t%-8s\t%s\n" \  
    "$curl_time" "$ping_ms" "$http_code" "$status" "$url" >> "$tmp_results"
```

```
done < "$tmp_urls"
```

```
# 5) Print ranked table
```

```
echo
```

```
echo "Ranked (fastest → slowest) by HTTP total time:"
```

```
printf "%-10s %-10s %-4s %-8s %s\n" "CURL_S" "PING_MS" "HTTP" "STATUS" "URL"
```

```
printf "%-10s %-10s %-4s %-8s %s\n" "-----" "-----" "----" "-----" "----"
```

```
sort -n "$tmp_results" | awk -F\t '{printf "%-10s %-10s %-4s %-8s %s\n",$1,$2,$3,$4,$5}'
```

```
# 6) Summary stats + fastest TOPN URLs
```

```

echo
echo "Summary:"
unique_hosts="$(wc -l < "$tmp_hosts" | tr -d ' ')"
ping_fail_hosts="$(awk -F'\t' '$2>=999999 {c++} END{print c+0}' "$tmp_ping")"
curl_fail_urls="$(awk -F'\t' '$1>=999.999 || $4=="FAIL" {c++} END{print c+0}' "$tmp_results")"
ok_urls="$(awk -F'\t' '$4=="OK" {c++} END{print c+0}' "$tmp_results")"

# Average curl time across successful URLs (status OK)
avg_ok_curl="$(awk -F'\t' '$4=="OK">{sum+=$1; n++} END{ if(n) printf "%.3f", sum/n; else print "n/a" }'
"$tmp_results")"

echo " URLs tested:      $TOTAL_URLS"
echo " Unique hosts:     $unique_hosts"
echo " OK URLs (2xx/3xx):  $ok_urls"
echo " Curl failures/timeout: $curl_fail_urls"
echo " Ping failures:      $ping_fail_hosts"
echo " Avg curl time (OK):  ${avg_ok_curl}s"

echo
echo "Fastest ${TOPN} URL(s) to use for update fetching (by HTTP total time):"
sort -n "$tmp_results" | head -n "$TOPN" | awk -F'\t' '{printf " %s (curl=%ss, ping=%sms, http=%s,
%s)\n", $5, $1, $2, $3, $4}'

```

Make executable

```
chmod +x ./url-speed-rank.sh
```

And run it

```
./url-speed-rank.sh -v mirrors.list
```

Let's see result more closer

Ranked (fastest → slowest) by HTTP total time:

CURL_S	PING_MS	HTTP	STATUS	URL
0000.092	999999.00	200	OK	https://mirror.verinomi.com/opnsense/
0000.221	24.05	403	HTTP_403	https://mirror.krfooss.org/opnsense/
0000.232	999999.00	200	OK	https://mirror-opnsense.serverbase.ch/
0000.233	74.23	200	OK	https://mirror.zyner.org/mirror/opnsense/
0000.234	74.60	200	OK	https://mirror.uvensys.de/opnsense/
0000.242	77.44	200	OK	https://mirror.init7.net/opnsense/
0000.245	78.98	200	OK	https://opnsense-mirror.hiho.ch/
0000.248	78.39	200	OK	https://mirrors.dotsrc.org/opnsense/
0000.256	999999.00	200	OK	https://mirror.vraphim.com/opnsense/
0000.277	74.71	200	OK	https://mirror.dns-root.de/opnsense/
0000.280	63.05	200	OK	https://mirror.fra10.de.leaseweb.net/opnsense/
0000.281	67.35	200	OK	https://mirror.serverion.com/opnsense/
0000.293	81.80	200	OK	https://opnsense.c0urier.net/
0000.318	63.73	200	OK	https://pkg.opnsense.org/
0000.336	76.12	200	OK	https://mirror.ams1.nl.leaseweb.net/opnsense/
0000.339	99.32	200	OK	https://mirror.marwan.ma/opnsense/
0000.369	28.55	404	HTTP_404	https://mirror.eliv.digital/opnsense/
0000.378	80.56	200	OK	https://mirror.raiolanetworks.com/opnsense/
0000.385	30.88	200	OK	https://mirror.techlabs.co.kr/opnsense/
0000.402	79.23	200	OK	https://mirrors.komogoto.com/opnsense/
0000.424	29.98	200	OK	https://mirror.winsub.kr/opnsense/
0000.446	145.98	200	OK	https://mirrors.nycbug.org/pub/opnsense/
0000.471	999999.00	200	OK	https://mirror.cs.odu.edu/opnsense/
0000.497	64.11	200	OK	https://opnsense.org/download/
0000.514	74.20	200	OK	https://mirror.venturasystems.tech/opnsense/
0000.579	71.70	200	OK	https://www.mirror-service.org/sites/opnsense.org/
0000.599	141.55	200	OK	https://mirror.mtl2.ca.leaseweb.net/opnsense/
0000.601	149.73	200	OK	https://mirror.wdcl.us.leaseweb.net/opnsense/
0000.632	272.29	000	HTTP_000	https://mirror.cloudfence.com.br/opnsense/
0000.650	211.07	200	OK	https://mirrors.ocf.berkeley.edu/opnsense/
0000.738	230.49	200	OK	https://mirrors.hopbox.net/opnsense/
0000.804	999999.00	200	OK	https://ftp.cc.uoc.gr/mirrors/opnsense/
0000.814	197.82	200	OK	https://mirror.sfo12.us.leaseweb.net/opnsense/
0000.835	76.97	200	OK	https://mirror.level66.network/opnsense-dist/
0000.888	999999.00	200	OK	https://mirror.hemino.net/opnsense/
0000.929	999999.00	200	OK	https://mirrors.pku.edu.cn/opnsense/
0000.952	305.30	200	OK	https://mirror.koreapixel.kr/opnsense/
0001.005	240.86	200	OK	https://mirror.ueb.edu.ec/opnsense/
0001.033	73.53	200	OK	https://mirror.meowsmp.net/opnsense/
0001.086	345.24	200	OK	https://mirror.aarnet.edu.au/pub/opnsense/
0001.098	355.62	200	OK	https://mirror.catalyst.net.nz/opnsense/
0001.428	999999.00	200	OK	https://mirror.keiminem.com/opnsense/
0001.818	243.04	200	OK	https://mirror.cedia.org.ec/opnsense/
0001.827	312.75	200	OK	https://mirror.distly.kr/opnsense
0002.420	333.21	200	OK	https://mirror.pangkin.com/opnsense/
0002.438	308.37	200	OK	https://opnsense.aivian.org/
0004.797	28.68	200	OK	https://mirror.zzunipark.com/opnsense/
0005.002	999999.00	000	HTTP_000	https://mirror1.isatisidc.ir/opnsense/
0005.003	999999.00	000	HTTP_000	https://mirror.leitecastro.com/opnsense/
0005.004	999999.00	000	HTTP_000	https://mirror.ntct.edu.tw/opnsense/

Summary:

URLs tested: 50
Unique hosts: 50
OK URLs (2xx/3xx): 0
Curl failures/timeout: 0
Ping failures: 11
Avg curl time (OK): n/as

Fastest 3 URL(s) to use for update fetching (by HTTP total time):

https://mirror.verinomi.com/opnsense/ (curl=0000.092s, ping= 999999.00ms, http=200, OK)
https://mirror.krfooss.org/opnsense/ (curl=0000.221s, ping= 24.05ms, http=403, HTTP_403)
https://mirror-opnsense.serverbase.ch/ (curl=0000.232s, ping= 999999.00ms, http=200, OK)

First column indicates what time it took to load the webpage, There are hosts with 999999 ms of ping , which simply means ICMP is not permitted. Hosts with codes 404 are empty or incorrect.

Short summary in the end gives an idea, which mirrors to focus on

Same script can be used to determine any other mirrors' list reachability.

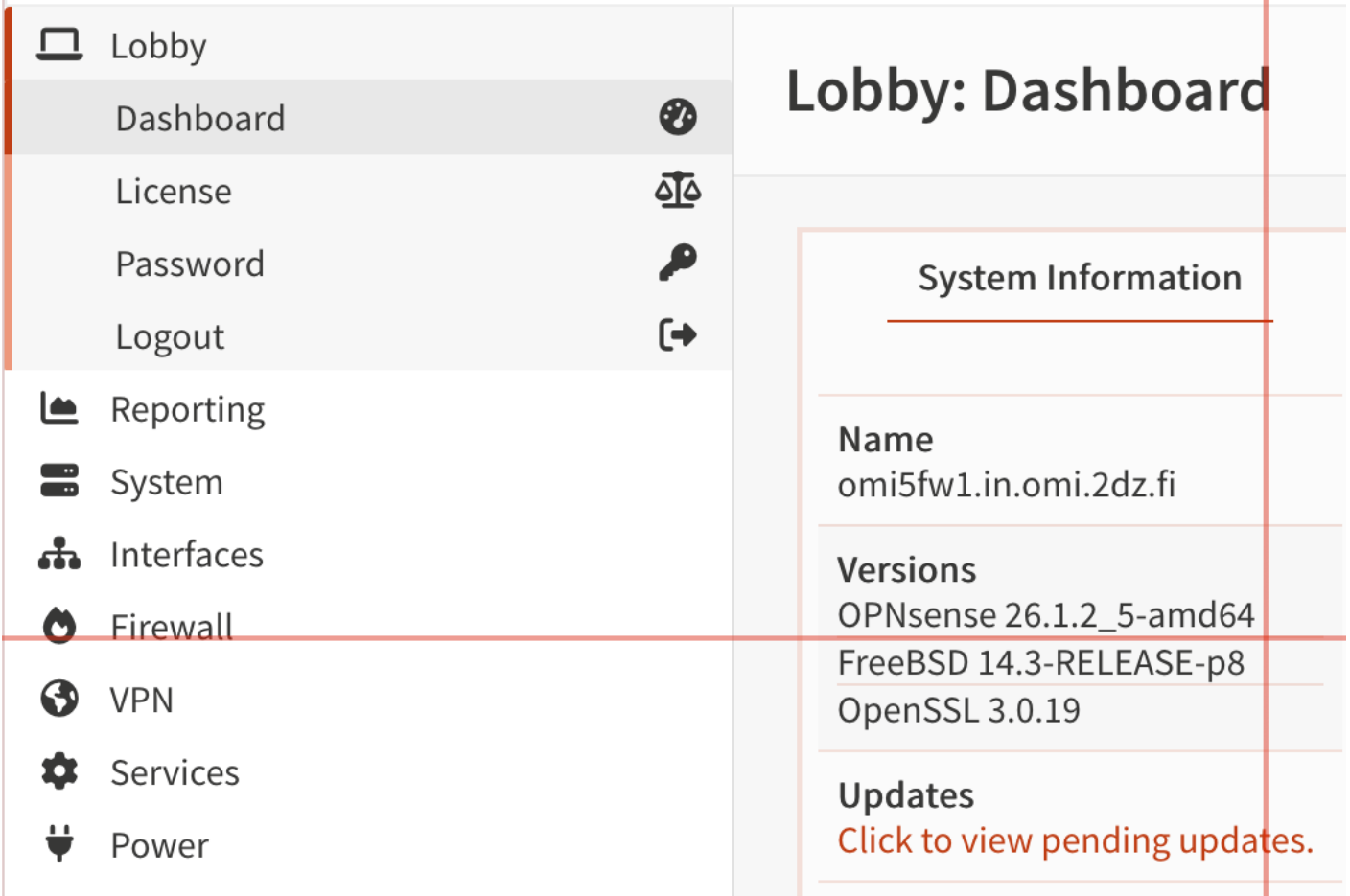
Let's perform manual verification

```
curl https://mirror.verinomi.com/opnsense/
```

Page is accessible, good.

```
anton@antimp4 2026-02-10 - ping OPNsense mirrors % curl https://mirror.verinomi.com/opnsense/
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<html>
<head>
<title>Index of /opnsense/</title>
</head>
<body>
<h1>Index of /opnsense/</h1>
<table>
<tr>
 valign="top"></th>  th><a href="?C=N;O=D">Name</a></th>  th><a href="?C=M;O=A">Last modified</a></th>  th><a href="?C=S;O=A">Size</a></th>  th><a href="?C=D;O=A">Description</a></th></tr> <tr>  <td><a href="parent" />Parent Directory</a></td>  <td><a href="/FreeBSD:10:amd64/">FreeBSD:10:amd64</a></td>  <td><a href="/FreeBSD:10:1386/">FreeBSD:10:1386</a></td>  <td><a href="/FreeBSD:11:amd64/">FreeBSD:11:amd64</a></td>  <td><a href="/FreeBSD:11:armv6/">FreeBSD:11:armv6</a></td>  <td><a href="/FreeBSD:11:1386/">FreeBSD:11:1386</a></td>  <td><a href="/FreeBSD:12:amd64/">FreeBSD:12:amd64</a></td>  <td><a href="/FreeBSD:13:amd64/">FreeBSD:13:amd64</a></td>  <td><a href="/FreeBSD:14:amd64/">FreeBSD:14:amd64</a></td>  <td><a href="/FreeBSD:15:amd64/">FreeBSD:15:amd64</a></td>  <td><a href="/bogons/">bogons</a></td>  <td><a href="/distfiles/">distfiles</a></td>  <td><a href="/releases/">releases</a></td>  <td><a href="/sets/">sets</a></td>  <td><a href="/stats/">stats</a></td>  <td><a href="/talks/">talks</a></td>  <td><a href="/test/">test</a></td>   | | | | | | | | | | | | | | | | | | | | | | |
```

On the day of writing (2026-04-08), current major version is 26 running on FreeBSD v14



This tells me, that packages are two weeks old, which is good.

[illegible]

Some servers are located on CDN and protected, might be challenge to reach them or opposite (that depends on the region).

/opnsense/FreeBSD:14:amd64/26.1/latest/

파일 이름 ↓

파일 크기 ↓

날짜 ↓

Parent directory/

-

-

All/

-

2026년 03월 24일 20시 52분

Latest/

-

2026년 03월 24일 20시 52분

data.pkg

324.6 KiB

2026년 03월 24일 20시 26분

data.tzst

324.6 KiB

2026년 03월 24일 20시 26분

meta

179 B

2026년 03월 24일 20시 26분

meta.conf

179 B

2026년 03월 24일 20시 26분

packagesite.pkg

324.6 KiB

2026년 03월 24일 20시 26분

packagesite.tzst

324.6 KiB

2026년 03월 24일 20시 26분

후원사



ROKFOSS PROJECT

공식메일로 문의하기

분산미러 사용하기 

커뮤니티에 가입하기 

칼리 리눅스 한국어 문서 

ROKFOSS Docs(문서) 

ROKFOSS 프로젝트 뉴스룸 

ROKFOSS 허니팟 공개 DB 

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ROK FOSS
CERTIFICATE

CR-A-000001



ROK FOSS
DALCOM PROJECT

892,566 REPORT

To configure selected server, navigate to System, Firmware, Settings, Mirror, choose (custom) from dropdown, type the server URL

→ 10.77.81.1/ui/core/firmware#settings

OPNsense® Securing networks made easy

System: Firmware

System (1)

Access

Configuration

Firmware (2)

Status

Setting (3)

Changelog

Updates

Plugins

Packages

Reporter

Log File

Gateways

High Availability

Routes

Status **Setting** (4) Changelog Updates Plugins Packages

advanced mode

Mirror (5) (custom) <https://mirror.verinomi.com/opnsense/> (6) (custom)

Flavour (default)

Type Community

Subscription

Reboot ☐ Always reboot after a successful update

Usage In order to apply these settings a firmware update must be performed

Save **Cancel**

Back to Status page will indicate that repository mirror is successfully configured

→ 10.77.81.1/ui/core/firmware#status

OPNsense® Securing networks made easy

System: Firmware

System

Access

Configuration

Firmware

Status

Settings

Changelog

Updates

Plugins

Packages

Reporter

Log File

Gateways

Status **Settings** Changelog Updates Plugins Packages

Type	opnsense
Version	26.1.2_5
Architecture	amd64
Commit	685ed6be1
Mirror	https://mirror.verinomi.com/opnsense//FreeBSD:14:amd64/26.1
Repositories	OPNsense (Priority: 11)
Updated on	Tue Feb 17 12:19:28 +03 2026
Checked on	N/A

Check for updates **Run an audit**

Should see dialog with fetching the packages and back to the Status, timestamp for latest update should be changed

System: Firmware

Status	Settings	Changelog	Updates	Plugins	Packages
Type	opnsense				
Version	26.1.2_5				
Architecture	amd64				
Commit	685ed6be1				
Mirror	https://mirror.verinomi.com/opnsense//FreeBSD:14:amd64/26.1				
Repositories	OPNsense (Priority: 11)				
Updated on	Tue Feb 17 12:19:28 +03 2026				
Checked on	Wed Apr 8 06:51:35 +03 2026				
 Check for updates			 Run an audit ▼		

Once you see newer base is available and packages will be upgraded, it is a good sign

Upgrade itself

System: Firmware

Status Settings Changelog **Updates** Plugins Packages

```

***GOT REQUEST TO UPDATE***
Currently running OPNsense 26.1.2_5 (amd64) at Wed Apr  8 06:54:45 +03 2026
Updating OPNsense repository catalogue...
OPNsense repository is up to date.
All repositories are up to date.
Updating OPNsense repository catalogue...
OPNsense repository is up to date.
All repositories are up to date.
Checking for upgrades (117 candidates): ..... done
Processing candidates (117 candidates): .. done
The following 71 package(s) will be affected (of 0 checked):

New packages to be INSTALLED:
    colordiff: 1.0.22
    py313-Babel: 2.18.0
    py313-Jinja2: 3.1.6
    py313-aioquic: 1.3.0_1
    py313-anyio: 4.12.1
    py313-async_generator: 1.10_1
    py313-attrs: 25.4.0
    py313-bottle: 1.12.1
    py313-certifi: 2025.1.31
    py313-chardet: 5.2.0
    py313-click: 8.1.8
    py313-cryptography: 43.0.0
    py313-dnspython: 2.7.0
    py313-flask: 3.1.0
    py313-greenlet: 3.0.3
    py313-httpx: 0.27.0
    py313-idna: 3.10
    py313-lxml: 5.3.0
    py313-mako: 1.3.0
    py313-markdown-it: 3.0.0
    py313-monotonic: 1.6.0
    py313-netaddr: 1.0.0
    py313-nmap: 2.1.0
    py313-paramiko: 3.4.0
    py313-pip: 24.3.1
    py313-psutil: 6.1.0
    py313-pyasn1: 0.6.1
    py313-pycryptodome: 3.20.0
    py313-pygments: 2.19.0
    py313-pymongo: 4.8.0
    py313-pynacl: 1.5.0
    py313-pyyaml: 6.0.2
    py313-re2: 2024.12.01
    py313-rsa: 4.9
    py313-scp: 0.14.0
    py313-setuptools: 75.8.0
    py313-six: 1.17.0
    py313-tomlkit: 0.13.2
    py313-truststore: 0.10.0
    py313-ujson: 5.10.0
    py313-urllib3: 2.3.0
    py313-yarl: 1.18.2
    py313-zipp: 3.20.2
    py313-zstd: 1.5.6
    zsh: 5.9.0
  
```

Output shown here for diagnostic purposes. There is no general need for manual system intervention. [Click here to copy to clipboard.](#)

System config has an option to restart server, once upgraded, once that is enable, it will restart

After reboot.


OPNsense®
<
root@omi5fw1.in.omi.2dz.fi

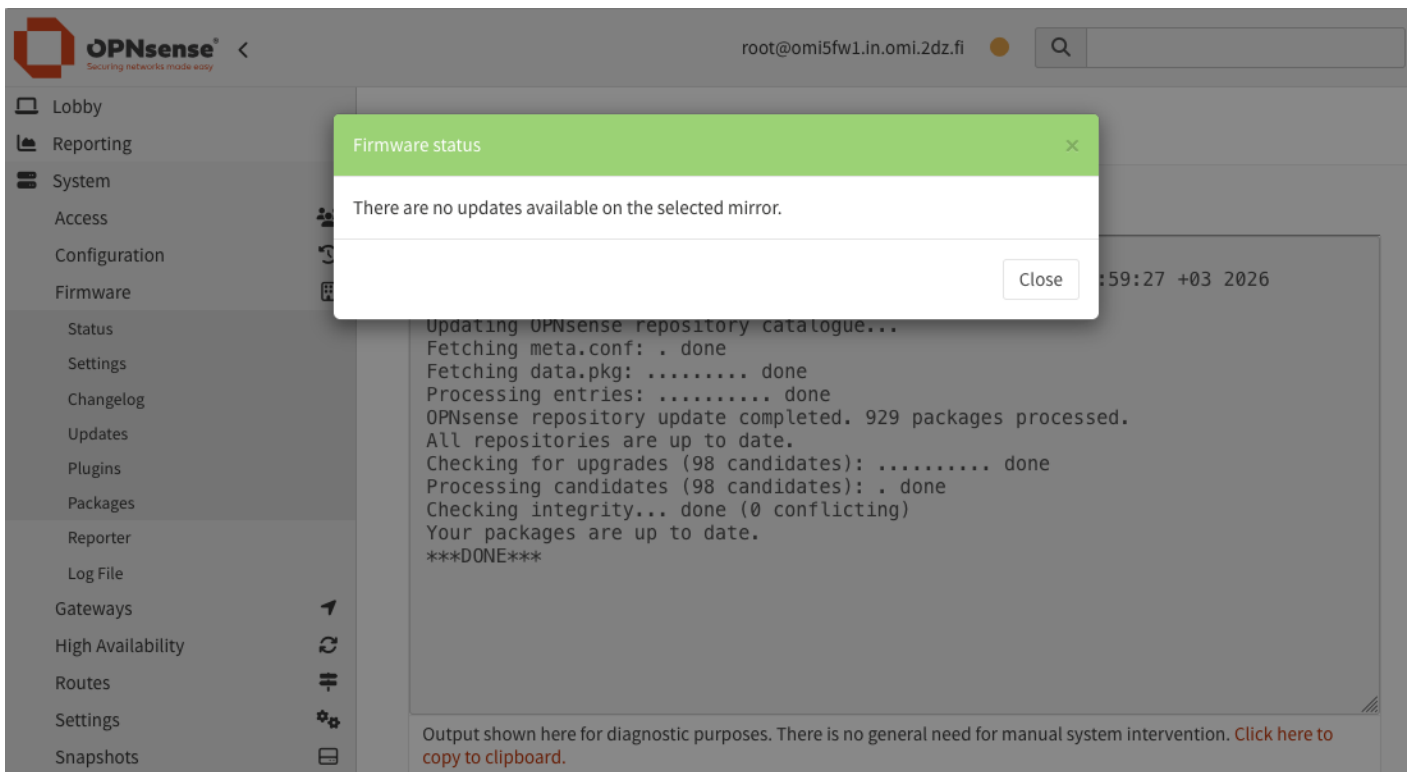
- Lobby
- Dashboard**
- License
- Password
- Logout
- Reporting
- System
- Interfaces
- Firewall
- VPN

Lobby: Dashboard

System Information

Name	omi5fw1.in.omi.2dz.fi
Versions	OPNsense 26.1.5-amd64 FreeBSD 14.3-RELEASE-p9 OpenSSL 3.0.19
Updates	Click to check for updates.

Nothing to update. Good.



More notes on the topic:

From DXB, UAE:

```

curl: https://opnsense.aivian.org/
curl: https://opnsense.c0urier.net/
curl: https://opnsense.org/download/
curl: https://pkg.opnsense.org/
curl: https://www.mirrorservice.org/sites/opnsense.org/

```

Ranked (fastest → slowest) by HTTP total time:

CURL_S	PING_MS	HTTP	STATUS	URL
-----	-----	----	-----	---
0000.266	7.47	200	OK	https://mirror.eliv.digital/opnsense/
0000.270	7.34	200	OK	https://mirror.winsub.kr/opnsense/
0000.383	130.16	200	OK	https://pkg.opnsense.org/
0000.391	129.23	200	OK	https://mirror.uvensys.de/opnsense/
0000.413	999999.00	200	OK	https://mirror.vraphim.com/opnsense/
0000.431	999999.00	200	OK	https://mirror-opnsense.serverbase.ch/
0000.433	142.01	200	OK	https://mirror.init7.net/opnsense/
0000.439	145.38	200	OK	https://mirror.ntct.edu.tw/opnsense/
0000.440	7.44	200	OK	https://mirror.keiminem.com/opnsense/
0000.459	137.66	200	OK	https://opnsense-mirror.hiho.ch/
0000.465	141.28	200	OK	https://opnsense.c0urier.net/
0000.479	132.94	200	OK	https://mirror1.isatisidc.ir/opnsense/
0000.479	156.15	200	OK	https://mirrors.dotsrc.org/opnsense/
0000.489	146.73	200	OK	https://mirror.zyner.org/mirror/opnsense/
0000.505	7.28	200	OK	https://mirror.dns-root.de/opnsense/
0000.506	150.62	200	OK	https://mirror.hemino.net/opnsense/
0000.541	125.87	200	OK	https://mirror.ams1.nl.leaseweb.net/opnsense/
0000.552	177.07	200	OK	https://mirror.marwan.ma/opnsense/
0000.554	177.66	200	OK	https://mirrors.hopbox.net/opnsense/
0000.582	999999.00	200	OK	https://mirror.verinomi.com/opnsense/
0000.602	6.93	200	OK	https://mirror.zzunipark.com/opnsense/
0000.605	200.19	200	OK	https://mirrors.nycbug.org/pub/opnsense/
0000.647	139.96	200	OK	https://mirrors.komogoto.com/opnsense/
0000.656	6.78	200	OK	https://mirror.krfoos.org/opnsense/
0000.701	174.28	200	OK	https://mirror.pangkin.com/opnsense/
0000.702	155.45	200	OK	https://mirror.fra10.de.leaseweb.net/opnsense/
0000.749	149.35	200	OK	https://opnsense.org/download/
0000.756	144.83	200	OK	https://mirror.raiolanetworks.com/opnsense/
0000.765	244.61	200	OK	https://mirror.koreapixel.kr/opnsense/
0000.817	7.26	200	OK	https://mirror.venturasystems.tech/opnsense/
0000.819	7.23	200	OK	https://mirror.techlabs.co.kr/opnsense/
0000.870	259.21	200	OK	https://mirrors.ocf.berkeley.edu/opnsense/
0000.899	218.25	200	OK	https://mirror.wdc1.us.leaseweb.net/opnsense/
0000.913	999999.00	200	OK	https://mirror.cs.odu.edu/opnsense/
0001.009	239.57	200	OK	https://mirror.mtl2.ca.leaseweb.net/opnsense/
0001.140	129.84	200	OK	https://mirror.level66.network/opnsense-dist/
0001.140	283.65	200	OK	https://mirror.cedia.org.ec/opnsense/
0001.194	124.73	200	OK	https://www.mirrorservice.org/sites/opnsense.org/
0001.204	284.31	200	OK	https://mirror.ueb.edu.ec/opnsense/
0001.215	387.60	200	OK	https://mirror.catalyst.net.nz/opnsense/
0001.282	398.18	200	OK	https://mirror.aarnet.edu.au/pub/opnsense/
0001.291	316.57	200	OK	https://mirror.sfo12.us.leaseweb.net/opnsense/
0001.387	7.54	200	OK	https://mirror.meowsmp.net/opnsense/
0001.508	999999.00	200	OK	https://mirrors.pku.edu.cn/opnsense/
0001.756	180.34	200	OK	https://opnsense.aivian.org/
0001.831	999999.00	200	OK	https://mirror.distly.kr/opnsense
0003.664	320.28	000	HTTP_000	https://mirror.serverion.com/opnsense/
0005.002	999999.00	000	HTTP_000	https://mirror.leitecastro.com/opnsense/
0005.006	999999.00	000	HTTP_000	https://ftp.cc.uoc.gr/mirrors/opnsense/
0005.007	999999.00	000	HTTP_000	https://mirror.cloudfence.com.br/opnsense/

Summary:

```

URLs tested:          50
Unique hosts:         50
OK URLs (2xx/3xx):    0
Curl failures/timeout: 0
Ping failures:        9

```

manual check for existance of content:

```
anton-pvt@ant1mbp7 ~/delme-pvt$ date
Sat Jun 13 15:04:03 +03 2026
anton-pvt@ant1mbp7 ~/delme-pvt$
anton-pvt@ant1mbp7 ~/delme-pvt$
anton-pvt@ant1mbp7 ~/delme-pvt$
anton-pvt@ant1mbp7 ~/delme-pvt$ curl https://mirror.winsub.kr/opnsense/
<html>
<head><title>Index of /opnsense/</title></head>
<body>
<h1>Index of /opnsense/</h1><hr><pre><a href="..">..</a>
<a href="/FreeBSD%3A10%3Aamd64/">FreeBSD:10:amd64/</a>
<a href="/FreeBSD%3A10%3Ai386/">FreeBSD:10:i386/</a>
<a href="/FreeBSD%3A11%3Aamd64/">FreeBSD:11:amd64/</a>
<a href="/FreeBSD%3A11%3Aarmv6/">FreeBSD:11:armv6/</a>
<a href="/FreeBSD%3A11%3Ai386/">FreeBSD:11:i386/</a>
<a href="/FreeBSD%3A12%3Aamd64/">FreeBSD:12:amd64/</a>
<a href="/FreeBSD%3A13%3Aamd64/">FreeBSD:13:amd64/</a>
<a href="/FreeBSD%3A14%3Aamd64/">FreeBSD:14:amd64/</a>
<a href="/FreeBSD%3A15%3Aamd64/">FreeBSD:15:amd64/</a>
<a href="/bogons/">bogons/</a>
<a href="/distfiles/">distfiles/</a>
<a href="/releases/">releases/</a>
<a href="/sets/">sets/</a>
<a href="/stats/">stats/</a>
<a href="/talks/">talks/</a>
<a href="/test/">test/</a>
</pre><hr></body>
</html>
anton-pvt@ant1mbp7 ~/delme-pvt$ curl https://mirror.eliv.digital/opnsense/
{"STATUS":"OK","MSG":"Directory retrieved successfully (Total: 16 items)","CODE":"DIRECTORY_RETRIEVED","DATA":{"Directory":[{"Type":"Directory","ContentType":null,"Name":"FreeBSD:10:amd64","Path":"\\opnsense\\FreeBSD:10:amd64","Size":4096,"CreatedAt":"2026-04-28T03:10:09Z","UpdatedAt":"2018-10-07T14:42:52Z"},{"Type":"Directory","ContentType":null,"Name":"FreeBSD:10:i386","Path":"\\opnsense\\FreeBSD:10:i386","Size":4096,"CreatedAt":"2026-04-28T03:10:11Z","UpdatedAt":"2018-10-07T14:48:58Z"},{"Type":"Directory","ContentType":null,"Name":"FreeBSD:11:amd64","Path":"\\opnsense\\FreeBSD:11:amd64","Size":4096,"CreatedAt":"2026-04-28T03:10:12Z","UpdatedAt":"2021-01-12T09:54:38Z"},{"Type":"Directory","ContentType":null,"Name":"FreeBSD:11:armv6","Path":"\\opnsense\\FreeBSD:11:armv6","Size":4096,"CreatedAt":"2026-04-28T03:25:38Z","UpdatedAt":"2019-05-08T09:17:58Z"},{"Type":"Directory","ContentType":null,"Name":"FreeBSD:11:i386","Path":"\\opnsense\\FreeBSD:11:i386","Size":4096,"CreatedAt":"2026-04-28T03:25:39Z","UpdatedAt":"2020-08-10T08:57:07Z"},{"Type":"Directory","ContentType":null,"Name":"FreeBSD:12:amd64","Path":"\\opnsense\\FreeBSD:12:amd64","Size":4096,"CreatedAt":"2026-04-28T03:42:18Z","UpdatedAt":"2021-08-13T07:53:11Z"},{"Type":"Directory","ContentType":null,"Name":"FreeBSD:13:amd64","Path":"\\opnsense\\FreeBSD:13:amd64","Size":4096,"CreatedAt":"2026-04-28T05:15:34Z","UpdatedAt":"2024-07-25T09:45:25Z"},{"Type":"Directory","ContentType":null,"Name":"FreeBSD:14:amd64","Path":"\\opnsense\\FreeBSD:14:amd64","Size":4096,"CreatedAt":"2026-05-14T00:14:11Z","UpdatedAt":"2026-04-15T12:02:29Z"},{"Type":"Directory","ContentType":null,"Name":"FreeBSD:15:amd64","Path":"\\opnsense\\FreeBSD:15:amd64","Size":4096,"CreatedAt":"2026-05-14T00:14:11Z","UpdatedAt":"2026-06-08T15:10:37Z"},{"Type":"Directory","ContentType":null,"Name":"bogons","Path":"\\opnsense\\bogons","Size":4096,"CreatedAt":"2026-05-14T00:14:11Z","UpdatedAt":"2022-09-21T11:24:58Z"},{"Type":"Directory","ContentType":null,"Name":"distfiles","Path":"\\opnsense\\distfiles","Size":4096,"CreatedAt":"2026-05-14T00:14:11Z","UpdatedAt":"2025-10-14T16:58:01Z"},{"Type":"Directory","ContentType":null,"Name":"releases","Path":"\\opnsense\\releases","Size":4096,"CreatedAt":"2026-05-14T00:14:11Z","UpdatedAt":"2026-04-23T14:42:37Z"},{"Type":"Directory","ContentType":null,"Name":"sets","Path":"\\opnsense\\sets","Size":4096,"CreatedAt":"2026-05-14T00:14:11Z","UpdatedAt":"2018-10-07T17:23:08Z"},{"Type":"Directory","ContentType":null,"Name":"stats","Path":"\\opnsense\\stats","Size":4096,"CreatedAt":"2026-05-14T00:14:11Z","UpdatedAt":"2023-08-23T09:58:11Z"},{"Type":"Directory","ContentType":null,"Name":"talks","Path":"\\opnsense\\talks","Size":4096,"CreatedAt":"2026-05-14T00:14:11Z","UpdatedAt":"2024-09-21T06:59:56Z"},{"Type":"Directory","ContentType":null,"Name":"test","Path":"\\opnsense\\test","Size":4096,"CreatedAt":"2026-05-14T00:14:11Z","UpdatedAt":"2023-09-26T13:10:23Z"}]}}
```

and configured:



OPNsense® <div>Securing networks made easy

Lobby

Reporting

System

Access

Configuration

Firmware

Status

Settings

Changelog

Updates

Plugins

Packages

Reporter

Log File

Gateways

System: Firmware

StatusSettingsChangelogUpdatesPluginsPackages

Typeopnsense

Version25.7.11_9

Architectureamd64

Commit2e9ac2def

Mirrorhttps://mirror.winsub.kr/opnsense//FreeBSD:14:amd64/25.7

RepositoriesOPNsense (Priority: 11)

Updated onWed Feb 4 12:05:06 +04 2026

Checked onSat Jun 13 16:07:29 +04 2026

Check for updates

Run an audit

upgrade v25.7.11--26.1.2--26.1.9

 **OPNsense**
Securing networks made easy

ant0n@



Lobby

Reporting

System

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Status

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Changelog

Updates

System: Firmware

Status

Settings

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Updates

Plugins

Packages

Package name	Current version	New version	Required action	Repository
base	25.7.11	26.1	upgrade	OPNsense
kernel	25.7.11	26.1	upgrade	OPNsense
packages	25.7	26.1	upgrade	OPNsense

✓ Upgrade

✕ Cancel

There are 3 updates available, total download size is 1.2GiB. This update requires a reboot.

from Finland

Another environment (2026-08-02). It turned out, that there is a sense of saving results into separate file is a good idea. :)

```
./url-speed-rank.sh -v mirrors.list | tee url-speed-rank.log
```

```
Summary:
URLs tested:      50
Unique hosts:     50
OK URLs (2xx/3xx): 0
Curl failures/timeout: 0
Ping failures:    11
Avg curl time (OK): n/as

Fastest 3 URL(s) to use for update fetching (by HTTP total time):
https://mirror.venturasytems.tech/opnsense/ (curl=0000.070s, ping= 18.02ms, http=530, HTTP_530)
https://mirror.dns-root.de/opnsense/ (curl=0000.071s, ping= 18.20ms, http=200, OK )
https://mirror.zyner.org/mirror/opnsense/ (curl=0000.090s, ping= 27.52ms, http=200, OK )

anton-pvt@ant1mbp7 ~/delme$
anton-pvt@ant1mbp7 ~/delme$
anton-pvt@ant1mbp7 ~/delme$ ls -latr
total 48
-rw-r--r--@ 1 anton-pvt  staff  1498 Jul 12 09:17 .
-rw-r--r--@ 1 anton-pvt  staff  1942 Aug 2 07:12 mirrors.list
-rwxr-xr-x@ 1 anton-pvt  staff  5822 Aug 2 07:12 url-speed-rank.sh
drwxr-x---+ 49 anton-pvt  staff  1568 Aug 2 07:12 ..
drwxr-xr-x@ 6 anton-pvt  staff   192 Aug 2 07:46 .
-rw-r--r--@ 1 anton-pvt  staff  4418 Aug 2 07:49 url-speed-rank.log
```

manual check of packages existence

```
anton-pvt@ant1mbp7 ~/delme$ curl -L https://mirror.zyner.org/mirror/opnsense/
<html>
<head><title>Index of /mirror/opnsense/</title></head>
<body>
<h1>Index of /mirror/opnsense/</h1><hr><pre><a href="..">../</a>
<a href="FreeBSD%3A10%3Aamd64/">FreeBSD:10:amd64/</a>                                07-Oct-2018 14:42
<a href="FreeBSD%3A10%3Ai386/">FreeBSD:10:i386/</a>                                07-Oct-2018 14:48
<a href="FreeBSD%3A11%3Aamd64/">FreeBSD:11:amd64/</a>                                12-Jan-2021 09:54
<a href="FreeBSD%3A11%3Aarmv6/">FreeBSD:11:armv6/</a>                                08-May-2019 09:17
<a href="FreeBSD%3A11%3Ai386/">FreeBSD:11:i386/</a>                                10-Aug-2020 08:57
<a href="FreeBSD%3A12%3Aamd64/">FreeBSD:12:amd64/</a>                                13-Aug-2021 07:53
<a href="FreeBSD%3A13%3Aamd64/">FreeBSD:13:amd64/</a>                                25-Jul-2024 09:45
<a href="FreeBSD%3A14%3Aamd64/">FreeBSD:14:amd64/</a>                                15-Apr-2026 12:02
<a href="FreeBSD%3A15%3Aamd64/">FreeBSD:15:amd64/</a>                                08-Jun-2026 10:40
<a href="bogons/">bogons/</a>                                21-Sep-2022 11:24
<a href="distfiles/">distfiles/</a>                                14-Oct-2025 16:58
<a href="releases/">releases/</a>                                15-Jul-2026 06:25
<a href="sets/">sets/</a>                                07-Oct-2018 17:23
<a href="stats/">stats/</a>                                23-Aug-2023 09:58
<a href="talks/">talks/</a>                                21-Sep-2024 06:59
<a href="test/">test/</a>                                26-Sep-2023 13:10
</pre><hr></body>
</html>
anton-pvt@ant1mbp7 ~/delme$
```

configure customer URL

System: Firmware

Status

Settings

Changelog

Updates

Plugins

Packages

ⓘ advanced mode

ⓘ Mirror

(custom)

https://mirror.zyner.org/mirror/opnsense/

ⓘ Type

Community

ⓘ Subscription

ⓘ Usage

In order to apply these settings a firmware update must be performed after save, which can include a reboot of the system.

Save

Cancel

check for new packages

System: Firmware

Status

Settings

Changelog

Updates

Plugins

Packages

Type	opnsense
Version	26.1.7_1
Architecture	amd64
Commit	f0d1bef3b
Mirror	https://mirror.zyner.org/mirror/opnsense//FreeBSD:14:amd64/26.1
Repositories	OPNsense (Priority: 11)
Updated on	Fri May 1 05:33:55 UTC 2026
Checked on	Sun Aug 2 07:24:24 EEST 2026

 Check for updates

 Run an audit ▾

Q.E.D.