

# 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

```
# 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.mirror-service.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.krfoss.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.meowsm.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.krfoss.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@w8ant1mhp4 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><th 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><th colspan="5">dir</th></tr>
<tr><td valign="top"></td><td-a href="..">Parent Directory</a></td><td align="right">-</td><td align="right">-</td><td align="right">-</td></tr>
<tr><td valign="top"></td><td-a href="/FreeBSD:10:amd64/">FreeBSD:10:amd64/</a></td><td align="right">2018-10-07 17:42</td><td align="right">-</td><td align="right">-</td></tr>
<tr><td valign="top"></td><td-a href="/FreeBSD:10:i386/">FreeBSD:10:i386/</a></td><td align="right">2018-10-07 17:48</td><td align="right">-</td><td align="right">-</td></tr>
<tr><td valign="top"></td><td-a href="/FreeBSD:11:amd64/">FreeBSD:11:amd64/</a></td><td align="right">2021-01-12 12:54</td><td align="right">-</td><td align="right">-</td></tr>
<tr><td valign="top"></td><td-a href="/FreeBSD:11:arm64/">FreeBSD:11:arm64/</a></td><td align="right">2019-05-08 12:17</td><td align="right">-</td><td align="right">-</td></tr>
<tr><td valign="top"></td><td-a href="/FreeBSD:11:i386/">FreeBSD:11:i386/</a></td><td align="right">2020-08-10 11:57</td><td align="right">-</td><td align="right">-</td></tr>
<tr><td valign="top"></td><td-a href="/FreeBSD:12:amd64/">FreeBSD:12:amd64/</a></td><td align="right">2021-08-13 10:53</td><td align="right">-</td><td align="right">-</td></tr>
<tr><td valign="top"></td><td-a href="/FreeBSD:13:amd64/">FreeBSD:13:amd64/</a></td><td align="right">2024-07-25 12:45</td><td align="right">-</td><td align="right">-</td></tr>
<tr><td valign="top"></td><td-a href="/FreeBSD:14:amd64/">FreeBSD:14:amd64/</a></td><td align="right">2026-01-20 20:49</td><td align="right">-</td><td align="right">-</td></tr>
<tr><td valign="top"></td><td-a href="/FreeBSD:15:amd64/">FreeBSD:15:amd64/</a></td><td align="right">2025-12-10 19:51</td><td align="right">-</td><td align="right">-</td></tr>
<tr><td valign="top"></td><td-a href="/bogons/">bogons/</a></td><td align="right">2022-09-21 14:24</td><td align="right">-</td><td align="right">-</td></tr>
<tr><td valign="top"></td><td-a href="/distfiles/">distfiles/</a></td><td align="right">2025-10-14 19:58</td><td align="right">-</td><td align="right">-</td></tr>
<tr><td valign="top"></td><td-a href="/releases/">releases/</a></td><td align="right">2026-02-19 19:12</td><td align="right">-</td><td align="right">-</td></tr>
<tr><td valign="top"></td><td-a href="/sets/">sets/</a></td><td align="right">2018-10-07 20:23</td><td align="right">-</td><td align="right">-</td></tr>
<tr><td valign="top"></td><td-a href="/stats/">stats/</a></td><td align="right">2023-08-23 12:58</td><td align="right">-</td><td align="right">-</td></tr>
<tr><td valign="top"></td><td-a href="/talks/">talks/</a></td><td align="right">2024-09-21 09:59</td><td align="right">-</td><td align="right">-</td></tr>
<tr><td valign="top"></td><td-a href="/test/">test/</a></td><td align="right">2023-09-26 16:10</td><td align="right">-</td><td align="right">-</td></tr>
</table>
</body></html>
```

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

-  Lobby
-  Dashboard
-  License
-  Password
-  Logout
-  Reporting
-  System
-  Interfaces
-  Firewall
-  VPN
-  Services
-  Power

## Lobby: Dashboard

### System Information

#### Name

omi5fw1.in.omi.2dz.fi

#### Versions

OPNsense 26.1.2\_5-amd64

FreeBSD 14.3-RELEASE-p8

OpenSSL 3.0.19

#### Updates

[Click to view pending updates.](#)

Let's check that mirror will have recent upgrades available on that particular mirror

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

```
anton-w@ant1mbp4 2026-02-10 - ping OPNsense mirrors %
anton-w@ant1mbp4 2026-02-10 - ping OPNsense mirrors % curl https://mirror.verinomi.com/opnsense/FreeBSD:14:amd64/26.1/latest/
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<html>
<head>
<title>Index of /opnsense/FreeBSD:14:amd64/26.1/latest</title>
</head>
<body>
<h1>Index of /opnsense/FreeBSD:14:amd64/26.1/latest</h1>
<table>
<tr>
<th>cth valign="top"</th>
<th>ca href="?C=N;0=D">Name</th>
<th>ca href="?C=M;0=A">Last modified</th>
<th>ca href="?C=S;0=A">Size</th>
<th>ca href="?C=0;0=A">Description</th>
</tr>
<tr>
<th colspan="5">dirs</th>
<tr>
<td valign="top"</td>
<td><a href="/opnsense/FreeBSD:14:amd64/26.1/">Parent Directory</a></td>
<td align="right">-</td>
</tr>
<tr>
<td valign="top"</td>
<td><a href="All/">All</a></td>
<td align="right">2026-03-24 14:52</td>
<td align="right">-</td>
</tr>
<tr>
<td valign="top"</td>
<td><a href="Latest/">Latest</a></td>
<td align="right">2026-03-24 14:52</td>
<td align="right">-</td>
</tr>
<tr>
<td valign="top"</td>
<td><a href="data.pkg">data.pkg</a></td>
<td align="right">2026-03-24 14:26</td>
<td align="right">325K</td>
</tr>
<tr>
<td valign="top"</td>
<td><a href="data.tzst">data.tzst</a></td>
<td align="right">2026-03-24 14:26</td>
<td align="right">325K</td>
</tr>
<tr>
<td valign="top"</td>
<td><a href="meta.conf">meta.conf</a></td>
<td align="right">2026-03-24 14:26</td>
<td align="right">79</td>
</tr>
<tr>
<td valign="top"</td>
<td><a href="meta.conf">meta.conf</a></td>
<td align="right">2026-03-24 14:26</td>
<td align="right">179</td>
</tr>
<tr>
<td valign="top"</td>
<td><a href="packageite.pkg">packageite.pkg</a></td>
<td align="right">2026-03-24 14:26</td>
<td align="right">325K</td>
</tr>
<tr>
<td valign="top"</td>
<td><a href="packageite.tzst">packageite.tzst</a></td>
<td align="right">2026-03-24 14:26</td>
<td align="right">325K</td>
</tr>
<tr>
<th colspan="5">dirs</th>
</table>
</body>
</html>
anton-w@ant1mbp4 2026-02-10 - ping OPNsense mirrors %
```

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



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CR-A-000001



892,566 REPORT



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

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

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	<a href="https://mirror.verinomi.com/opnsense//FreeBSD:14:amd64/26.1">https://mirror.verinomi.com/opnsense//FreeBSD:14:amd64/26.1</a>				
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

- Lobby
- Reporting
- System
- Access
- Configuration
- Firmware
- Status
- Settings
- Changelog
- Updates
- Plugins
- Packages
- Reporter
- Log File
- Gateways
- High Availability
- Routes
- Settings
- Snapshots
- Trust
- Log Files
- Diagnostics
- Interfaces
- Firewall
- VPN
- Services
- Power
- Help

## System: Firmware

- Status
- Settings
- Changelog
- Updates
- Plugins
- Packages

Package name	Current version	New version	Required action	Repository
base	26.1.1	26.1.3	upgrade	OPNsense
colordiff	N/A	1.0.22	new	OPNsense
dnsmasq	2.92.1	2.92_2,1	upgrade	OPNsense
glib	2.84.4,2	2.84.4,2	reinstall	OPNsense
jansson	2.14.1	2.15.0	upgrade	OPNsense
kea	3.0.2_1	3.0.2_2	upgrade	OPNsense
kernel	26.1.1	26.1.3	upgrade	OPNsense
libucl	0.9.3	0.9.4	upgrade	OPNsense
libunistring	1.4.1	1.4.2	upgrade	OPNsense
libxml2	2.15.1_1	2.15.2	upgrade	OPNsense
nss	3.120	3.121	upgrade	OPNsense
openldap26-client	2.6.12	2.6.13	upgrade	OPNsense
opnsense	26.1.2_5	26.1.5	upgrade	OPNsense
opnsense-installer	25.1_1	25.1_2	upgrade	OPNsense
opnsense-lang	26.1.1	26.1.4	upgrade	OPNsense
opnsense-update	26.1.1_1	26.1.3	upgrade	OPNsense
perl5	5.42.0_1	5.42.1	upgrade	OPNsense
php83-phpseclib	3.0.49	3.0.50	upgrade	OPNsense
py313-aiouic	N/A	1.3.0_1	new	OPNsense
py313-anyio	N/A	4.12.1	new	OPNsense
py313-async_generator	N/A	1.10_1	new	OPNsense
py313-attrs	N/A	25.4.0	new	OPNsense
py313-Babel	N/A	2.18.0	new	OPNsense
py313-bottleneck	N/A	1.6.0	new	OPNsense
py313-certifi	N/A	2026.1.4	new	OPNsense
py313-cffi	N/A	2.0.0	new	OPNsense
py313-charset-normalizer	N/A	3.4.4	new	OPNsense
py313-cryptography	N/A	46.0.5,1	new	OPNsense
py313-dnspython	N/A	2.8.0_1,1	new	OPNsense
py313-duckdb	N/A	1.5.0	new	OPNsense
py313-h2	N/A	4.1.0_1	new	OPNsense
py313-h11	N/A	0.16.0	new	OPNsense
py313-hpack	N/A	4.0.0_1	new	OPNsense
py313-httpcore	N/A	1.0.9	new	OPNsense
py313-httpx	N/A	0.28.1_1	new	OPNsense
py313-hyperframe	N/A	6.0.0_1	new	OPNsense
py313-idna	N/A	3.11	new	OPNsense
py313-Jinja2	N/A	3.1.6	new	OPNsense
py313-jq	N/A	1.11.0	new	OPNsense
py313-ldap3	N/A	2.9.1_1	new	OPNsense
py313-markupsafe	N/A	3.0.3	new	OPNsense
py313-numexpr	N/A	2.14.1	new	OPNsense
py313-numpy	N/A	1.26.4_12,1	new	OPNsense
py313-outcome	N/A	1.3.0_2	new	OPNsense
py313-packaging	N/A	26.0	new	OPNsense
py313-pandas	N/A	2.3.3,1	new	OPNsense
py313-pyasn1	N/A	0.6.0	new	OPNsense
py313-pyasn1-modules	N/A	0.4.1	new	OPNsense
py313-pycparser	N/A	2.23	new	OPNsense
py313-pylsqpack	N/A	0.3.23	new	OPNsense
py313-pyopenssl	N/A	25.3.0_1,1	new	OPNsense
py313-pysocks	N/A	1.7.1_1	new	OPNsense
py313-python-dateutil	N/A	2.9.0	new	OPNsense
py313-pytz	N/A	2025.2_1,1	new	OPNsense
py313-pyyaml	N/A	6.0.3	new	OPNsense
py313-requests	N/A	2.32.5	new	OPNsense
py313-service-identity	N/A	24.2.0	new	OPNsense
py313-six	N/A	1.17.0	new	OPNsense
py313-sniffio	N/A	1.3.1	new	OPNsense
py313-socksio	N/A	1.0.0_1	new	OPNsense

## 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-aiquic: 1.3.0_1
  py313-anyio: 4.12.1
  py313-async_generator: 1.10_1
  py313-attrs: 25.4.0
```

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.

The screenshot shows the OPNsense web interface. The top left features the OPNsense logo and navigation menu items: Lobby, Dashboard, License, Password, Logout, Reporting, System, Interfaces, Firewall, and VPN. The top right shows the user 'root@omi5fw1.in.omi.2dz.fi'. The main content area is titled 'Lobby: Dashboard' and contains a 'System Information' section with the following data:

System Information	
Name	omi5fw1.in.omi.2dz.fi
Versions	OPNsense 26.1.5-amd64 FreeBSD 14.3-RELEASE-p9 OpenSSL 3.0.19
Updates	<a href="#">Click to check for updates.</a>

Nothing to update. Good.

The screenshot shows the OPNsense web interface. On the left is a navigation menu with items like Lobby, Reporting, System, Access, Configuration, Firmware, Status, Settings, Changelog, Updates, Plugins, Packages, Reporter, Log File, Gateways, High Availability, Routes, Settings, and Snapshots. The main content area displays a terminal window with the following output:

```
Updating OPNsense repository catalogue...
Fetching meta.conf: . done
Fetching data.pkg: ..... done
Processing entries: ..... done
OPNsense repository update completed. 929 packages processed.
All repositories are up to date.
Checking for upgrades (98 candidates): ..... done
Processing candidates (98 candidates): . done
Checking integrity... done (0 conflicting)
Your packages are up to date.
***DONE***
```

Overlaid on the terminal is a 'Firmware status' dialog box with a green header and a white body. The message inside reads: 'There are no updates available on the selected mirror.' A 'Close' button is located in the bottom right corner of the dialog. The terminal window also shows a timestamp '59:27 +03 2026' and a footer note: 'Output shown here for diagnostic purposes. There is no general need for manual system intervention. [Click here to copy to clipboard.](#)'

More notes on the topic:

From DXB, UAE:

```

curl: https://opnsense.org/
curl: https://opnsense.c0urier.net/
curl: https://opnsense.org/download/
curl: https://pkg.opnsense.org/
curl: https://www.mirror-service.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.krfoss.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.mirror-service.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 existence of content:

```
anton-pvt@ant1mbp7 ~/deleme-pvt$ date
Sat Jun 13 15:04:03 +03 2026
anton-pvt@ant1mbp7 ~/deleme-pvt$
anton-pvt@ant1mbp7 ~/deleme-pvt$
anton-pvt@ant1mbp7 ~/deleme-pvt$
anton-pvt@ant1mbp7 ~/deleme-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>                                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>                                              23-Apr-2026 14:42    -
<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 ~/deleme-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":"2026-06-08T15:10:37Z","UpdatedAt":"2026-06-08T10:40:01Z"},{"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"}]}anton-pvt@ant1mbp7 ~/deleme-pvt$
```

and configured:

The screenshot shows the OPNsense web interface. On the left is a navigation menu with options: Lobby, Reporting, System, Access, Configuration, Firmware, Status, Settings, Changelog, Updates, Plugins, Packages, Reporter, Log File, and Gateways. The main content area is titled "System: Firmware" and contains a table of settings. The "Mirror" field is set to "https://mirror.winsub.kr/opnsense//FreeBSD:14:amd64/25.7" and is highlighted with a red box. The "Checked on" field is set to "Sat Jun 13 16:07:29 +04 2026" and is also highlighted with a red box. At the bottom of the settings table, there are two buttons: "Check for updates" and "Run an audit".

upgrade v25.7.11--26.1.2--26.1.9

- Lobby
- Reporting
- System
- Access
- Configuration
- Firmware
- Status
- Settings
- Changelog
- Updates

### System: Firmware

System: Firmware

Navigation: [Status](#) [Settings](#) [Changelog](#) [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

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

Q.E.D.