

PVE9 local repository

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PVE9 local repository

PVE

pve9

OS local storage

가

가

/repo 가

proxmox-offline-mirror

```
$ apt install proxmox-offline-mirror
```

```
proxmox-repo:~# proxmox-offline-mirror setup
Loaded existing config.
```

Existing config entries:

```
mirror 'pve_trixie_no-subscription'
mirror 'debian_trixie_backports'
mirror 'debian_trixie_security'
mirror 'debian_trixie_main'
mirror 'debian_trixie_updates'
mirror 'ceph_squid_trixie'
```

Select Action:

- 0) Add new mirror entry
- 1) Add new medium entry
- 2) Add new subscription key
- 3) Quit

Add new mirror entry

. medium subscription

- pve_trixie_no-subscription
- debian_trixie_backports
- debian_trixie_security
- debian_trixie_main
- debian_trixie_updates
- ceph_squid_trixie

```
root@pve:/data# proxmox-offline-mirror config mirror list
```

ID	repository	verify	sync
base-dir			
ceph_squid_trixie	deb http://download.proxmox.com/debian/ceph-squid trixie no-subscription		
	/data/proxmox-offline-mirror/mirrors/	1	1
debian_trixie_backports	deb http://deb.debian.org/debian trixie-backports main contrib non-free non-free-firmware		
	/data/proxmox-offline-mirror/mirrors/	1	1
debian_trixie_main	deb http://deb.debian.org/debian trixie main contrib non-free non-free-firmware		
	/data/proxmox-offline-mirror/mirrors/	1	1
debian_trixie_security	deb http://deb.debian.org/debian-security trixie-security main contrib non-free non-free-firmware		
	/data/proxmox-offline-mirror/mirrors/	1	1
debian_trixie_updates	deb http://deb.debian.org/debian trixie-updates main contrib non-free non-free-firmware		
	/data/proxmox-offline-mirror/mirrors/	1	1
pve_trixie_no-subscription	deb http://download.proxmox.com/debian/pve trixie pve-no-subscription		
	/data/proxmox-offline-mirror/mirrors/	1	1

```
proxmox-offline-mirror config mirror update --id debian_trixie_backports --
repository "deb http://ftp.lanet.kr/debian trixie-backports main contrib
non-free non-free-firmware"
proxmox-offline-mirror config mirror update --id debian_trixie_main --
repository "deb http://ftp.lanet.kr/debian trixie main contrib non-free non-
free-firmware"
proxmox-offline-mirror config mirror update --id debian_trixie_updates --
repository "deb http://ftp.lanet.kr/debian trixie-updates main contrib non-
free non-free-firmware "
proxmox-offline-mirror config mirror update --id debian_trixie_security --
repository "deb http://deb.debian.org/debian-security trixie-security main
contrib non-free non-free-firmware"
```

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```
#
$ proxmox-offline-mirror mirror snapshot create <MIRROR_NAME>

#
$ proxmox-offline-mirror mirror gc
```

가

mirror.sh

```
#!/bin/bash
# ID
MIRRORS=(
    pve_trixie_no-subscription
    ceph_squid_trixie
    debian_trixie_main
    debian_trixie_security
    debian_trixie_updates
    debian_trixie_backports
)
BASE_DIR="/data/proxmox-offline-mirror/mirrors"

#
for MIRROR in "${MIRRORS[@]"; do
    if [ ! -d "$BASE_DIR/$MIRROR" ]; then
        echo "Dir not exists : $MIRROR creating..."
        mkdir -p "$BASE_DIR/$MIRROR"
    fi

    echo "Creating snapshot for $MIRROR..."
```

```
proxmox-offline-mirror mirror snapshot create "$MIRROR"
if [ $? -eq 0 ]; then
    echo "Snapshot for $MIRROR created successfully."
else
    echo "Error creating snapshot for $MIRROR."
fi
done

# 가 ( )
echo "Running garbage collection..."
proxmox-offline-mirror mirror gc
echo "Garbage collection completed."
```

가 .

2025-11-21

- 570M ceph_squid_trixie
- 14G debian_trixie_backports
- 96G debian_trixie_main
- 2.9G debian_trixie_security
- 19M debian_trixie_updates
- 8.8G pve_trixie_no-subscription

```
root@pve:/data# cd proxmox-offline-mirror/mirrors/
root@pve:/data/proxmox-offline-mirror/mirrors# ll
total 4
drwxr-xr-x 9 root root 4096 Nov 21 09:44 ./
drwxr-xr-x 3 root root  21 Nov 20 23:08 ../
drwxr-xr-x 3 root root  34 Nov 21 10:49 ceph_squid_trixie/
drwxr-xr-x 3 root root  34 Nov 21 10:52 debian_trixie_backports/
drwxr-xr-x 3 root root  34 Nov 21 10:52 debian_trixie_main/
drwxr-xr-x 3 root root  34 Nov 21 10:52 debian_trixie_security/
drwxr-xr-x 3 root root  34 Nov 21 10:52 debian_trixie_updates/
drwxr-xr-x 4 root root  47 Nov 20 23:11 .pool/
drwxr-xr-x 3 root root  34 Nov 21 10:49 pve_trixie_no-subscription/
root@pve:/data/proxmox-offline-mirror/mirrors# tree -L 3
.
├── ceph_squid_trixie
│   ├── 2025-10-16T01:52:19Z
│   │   └── dists
│   └── 2025-10-16T02:13:46Z
```

```
├── dists
├── 2025-10-16T03:01:59Z
│   ├── dists
│   └── 2025-10-16T04:40:44Z
│       ├── dists
│       └── 2025-10-16T06:12:13Z
│           └── dists
├── debian_trixie_main
│   ├── 2025-10-16T01:54:37Z.tmp
│   │   ├── dists
│   │   └── pool
│   ├── 2025-10-16T02:13:47Z.tmp
│   │   ├── dists
│   │   └── pool
│   ├── 2025-10-16T03:02:02Z.tmp
│   │   ├── dists
│   │   └── pool
│   ├── 2025-10-16T04:40:47Z
│   │   ├── dists
│   │   └── pool
│   └── 2025-10-16T06:12:16Z
│       ├── dists
│       └── pool
├── debian_trixie_security
│   ├── 2025-10-16T01:31:59Z
│   │   ├── dists
│   │   └── pool
│   ├── 2025-10-16T01:58:16Z
│   │   ├── dists
│   │   └── pool
│   ├── 2025-10-16T02:22:15Z
│   │   ├── dists
│   │   └── pool
│   ├── 2025-10-16T04:38:51Z
│   │   ├── dists
│   │   └── pool
│   ├── 2025-10-16T06:11:35Z
│   │   ├── dists
│   │   └── pool
│   └── 2025-10-16T06:16:05Z
│       ├── dists
│       └── pool
├── debian_trixie_updates
│   ├── 2025-10-16T01:58:29Z
│   │   ├── dists
│   │   └── pool
│   ├── 2025-10-16T02:22:28Z
│   │   ├── dists
│   │   └── pool
│   └── 2025-10-16T04:39:05Z
│       └── dists
```

```
├── pool
│   ├── 2025-10-16T06:11:50Z
│   │   ├── dists
│   │   └── pool
│   └── 2025-10-16T06:16:20Z
│       ├── dists
│       └── pool
└── pve_trixie_no-subscription
    ├── 2025-10-16T01:40:20Z.tmp
    │   └── dists
    ├── 2025-10-16T02:04:53Z
    │   └── dists
    ├── 2025-10-16T03:01:43Z
    │   └── dists
    ├── 2025-10-16T04:40:27Z
    │   └── dists
    └── 2025-10-16T06:11:55Z
        └── dists
```

74 directories, 0 files

.pool

*.tmp

. snap_clear.sh

```
#!/bin/bash
MIRRORS=(
    pve_trixie_no-subscription
    ceph_squid_trixie
    debian_trixie_main
    debian_trixie_security
    debian_trixie_updates
    debian_trixie_backports
)

#
for MIRROR in "${MIRRORS[@]}"; do
    echo "Deleting snapshot for $MIRROR..."
    proxmox-offline-mirror mirror snapshot list $MIRROR --output-format json
    | jq -r ".[\"$MIRROR\"][]" | while read SNAPSHOT; do
        echo "Deleting snapshot: $SNAPSHOT"
        proxmox-offline-mirror mirror snapshot remove $MIRROR "$SNAPSHOT"
    done
done
```



.pool

가 gc

copy-mirror.sh

```
#!/bin/bash
MIRROR_BASE=/data/repo
ORIG_BASE=/data/proxmox-offline-mirror/mirrors

# directory check
if [ ! -d "$MIRROR_BASE" ]; then
    echo "Dir not exists : $MIRROR_BASE creating..."
    mkdir -p "$MIRROR_BASE"
fi

for MIRROR in ceph_squid_trixie debian_trixie_main debian_trixie_security
debian_trixie_updates debian_trixie_backports pve_trixie_no-subscription; do
    LATEST=$(ls -d $ORIG_BASE/$MIRROR/*Z | sort -r | head -n 1)
    echo "LATEST=$LATEST"
    if [ -n "$LATEST" ]; then
        rm -rf $MIRROR_BASE/$MIRROR/
        rsync -a --copy-links $LATEST/ $MIRROR_BASE/$MIRROR/
        echo "Converted $MIRROR to actual files from $LATEST."
    fi
done
```

/repo

/repo

가

```
proxmox-repo:~# cd /repo/
proxmox-repo:/repo# ls -al
total 28
drwxr-xr-x  7 root root 4096 Oct 17 12:18 ./
drwxr-xr-x 19 root root 4096 Oct 16 15:17 ../
drwxr-xr-x  3 root root 4096 Oct 16 15:12 ceph_squid_trixie/
drwxr-xr-x  4 root root 4096 Oct 16 15:12 debian_trixie_main/
drwxr-xr-x  4 root root 4096 Oct 16 15:16 debian_trixie_security/
drwxr-xr-x  4 root root 4096 Oct 16 15:16 debian_trixie_updates/
drwxr-xr-x  3 root root 4096 Oct 16 15:11 pve_trixie_no-subscription/
```

```
proxmox-repo:/repo# tree -L3
.
├── ceph_squid_trixie
│   └── dists
│       └── trixie
├── debian_trixie_main
│   ├── dists
│   │   └── trixie
│   └── pool
│       ├── contrib
│       └── main
├── debian_trixie_security
│   ├── dists
│   │   └── trixie-security
│   └── pool
│       └── updates
├── debian_trixie_updates
│   ├── dists
│   │   └── trixie-updates
│   └── pool
│       └── main
└── pve_trixie_no-subscription
    ├── dists
    │   └── trixie
```

23 directories, 0 files

local.sources

```
#####
# PVE9 local repository sources type
# 2025-10-16
#####
Types: deb
URIs: file:///data/repo/ceph_squid_trixie
Suites: trixie
Components: no-subscription
Trusted: yes

Types: deb
URIs: file:///data/repo/debian_trixie_backports
Suites: trixie-backports
Components: main contrib non-free non-free-firmware
```

```
Trusted: yes
```

```
Types: deb
```

```
URIs: file:///data/repo/debian_trixie_main
```

```
Suites: trixie
```

```
Components: main contrib non-free non-free-firmware
```

```
Trusted: yes
```

```
Types: deb
```

```
URIs: file:///data/repo/debian_trixie_security
```

```
Suites: trixie-security
```

```
Components: main contrib non-free non-free-firmware
```

```
Trusted: yes
```

```
Types: deb
```

```
URIs: file:///data/repo/debian_trixie_updates
```

```
Suites: trixie-updates
```

```
Components: main contrib non-free non-free-firmware
```

```
Trusted: yes
```

```
Types: deb
```

```
URIs: file:///data/repo/pve_trixie_no-subscription
```

```
Suites: trixie
```

```
Components: pve-no-subscription
```

```
Trusted: yes
```

local.list

```
#####
```

```
# PVE9 local repository list type
```

```
# 2025-10-16
```

```
#####
```

```
deb [trusted=yes] file:///repo/ceph_squid_trixie trixie no-subscription
```

```
deb [trusted=yes] file:///repo/debian_trixie_backports trixie-backports main
```

```
contrib non-free non-free-firmware
```

```
deb [trusted=yes] file:///repo/debian_trixie_main trixie main contrib non-  
free non-free-firmware
```

```
deb [trusted=yes] file:///repo/debian_trixie_security trixie-security main  
contrib non-free non-free-firmware
```

```
deb [trusted=yes] file:///repo/debian_trixie_updates trixie-updates main  
contrib non-free non-free-firmware
```

```
deb [trusted=yes] file:///repo/pve_trixie_no-subscription trixie pve-no-  
subscription
```

가 .

```
Error: Release file for file:/data/repo/debian_trixie_security/dists/trixie-security/InRelease is expired (invalid since 21d 21h 19min 4s). Updates for this repository will not be applied.
Error: Release file for file:/data/repo/debian_trixie_updates/dists/trixie-updates/InRelease is expired (invalid since 21d 22h 14min 21s). Updates for this repository will not be applied.
```

/etc/apt/apt.conf.d/99local-repo-no-valid-until .

```
//      /      Release
Acquire::Check-Valid-Until "false";
Acquire::Check-Date "false";

// 가 Release      (      )
Acquire::AllowInsecureRepositories "true";
Acquire::AllowDowngradeToInsecureRepositories "true";

//      (      )
APT::Get::AllowUnauthenticated "true";
```

- <https://pom.proxmox.com/>

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