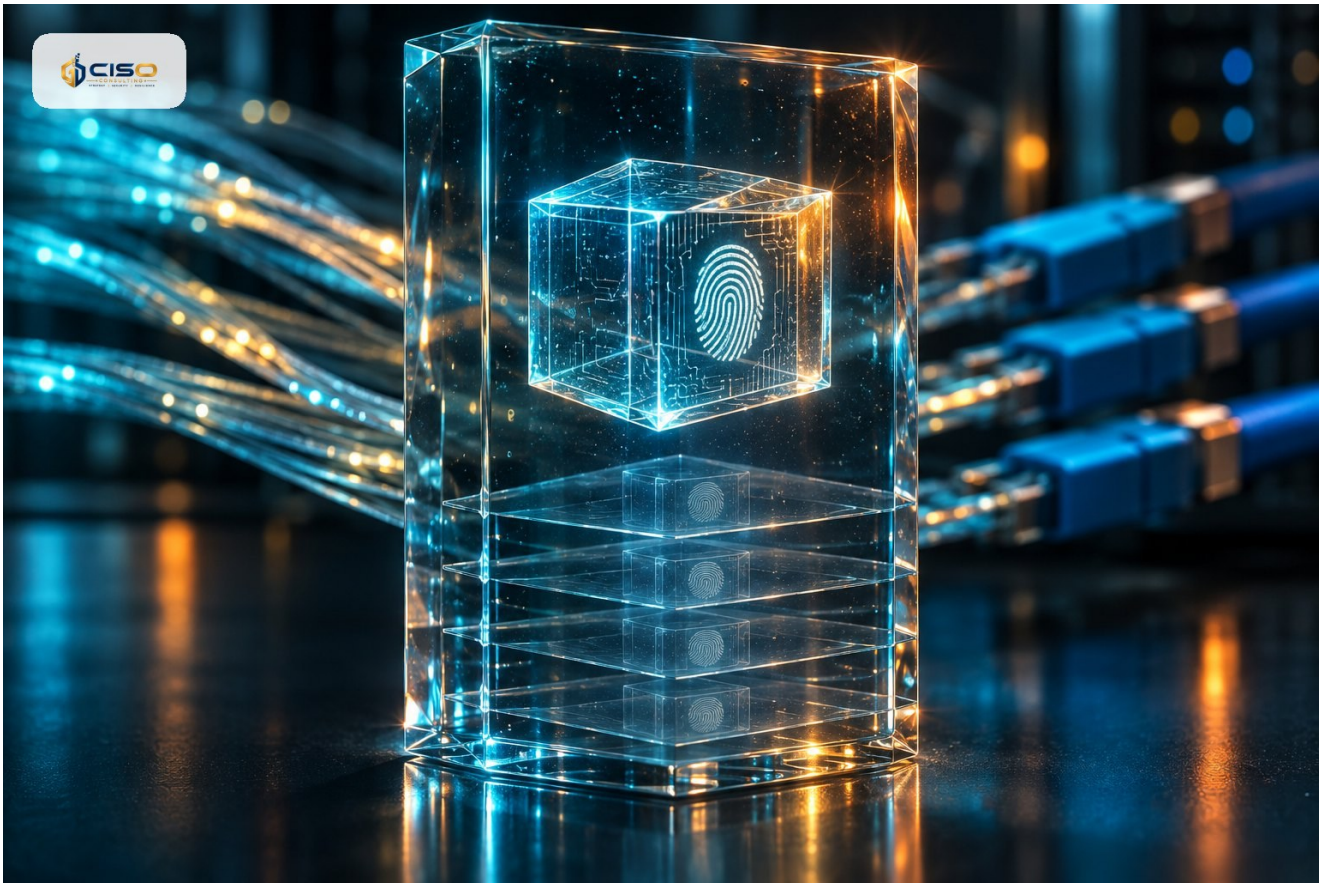
Proxmox VE 9.3 brings production-supported snapshots to SAN-backed VMs



Proxmox VE 9.3 supports snapshots on shared LVM storage over iSCSI and Fibre Channel for production use, and gives each guest a persistent identity across migration, backup and restore.

- Snapshots on shared LVM over iSCSI and Fibre Channel SANs are now supported for production, using volume chains on thick-provisioned LVM.
- The feature is enabled in advanced storage settings with the option Allow Snapshots as Volume-Chain.
- Each guest keeps the same identity after a new VMID or a restore to another cluster, helping backup and management tools track it.
- New web interface features include guided multipath setup, a Datacenter > SAN view, a System Log, an API Access Log and an APT History.

> - Ceph Umbrella 21.2 with CephX key rotation is only a technology preview; Ceph Tentacle 20.2 is the stable version.

Proxmox Virtual Environment 9.3 adds production support for snapshots on shared LVM storage presented over iSCSI and Fibre Channel SANs. Organisations running virtual machines on a SAN can take a snapshot before a risky change in a configuration the vendor supports for production.

What changed

Snapshots work as volume chains on thick-provisioned LVM. Administrators enable them in the advanced storage settings through the option Allow Snapshots as Volume-Chain.

Each guest now has an identity that stays the same when it receives a new VMID or is restored to another cluster. Backup software and external management tools can therefore recognise the same machine throughout its life.

Multipath, meaning several network routes to one storage LUN, was previously configured node by node. A guided workflow now handles it across cluster nodes for iSCSI, Fibre Channel and NVMe over Fabrics, and a Datacenter > SAN view shows path state in real time.

Logging, networking and Ceph

The web interface adds a filterable System Log, an API Access Log and an APT History of package transactions. Simple SDN zones can use a dedicated VRF with custom static routes, and WireGuard fabrics report interface and peer status.

Ceph Umbrella 21.2 is a technology preview with a hardened default cipher for CephX and online key rotation. Preview status means it should be tested before it is trusted; Ceph Tentacle 20.2 remains the stable version.

Practical view

The release runs on Debian 13.8 with Linux kernel 7.0 by default and 7.3 as an option. Upgrades from older versions use APT. Teams should treat the upgrade as a normal change: test first, confirm backup behaviour, and review the new logs for audit use.

What to do now

1. Test snapshots on thick-provisioned LVM in a non-production cluster before enabling them on SAN-backed production VMs.
2. Confirm with your backup vendor how the persistent guest identity is handled, and run a restore test to another cluster.
3. Document snapshot retention and approval rules within change management so snapshots are not left in

place indefinitely.

4. Review the new System Log, API Access Log and APT History for inclusion in your logging and audit evidence.
5. Keep Ceph Umbrella 21.2 out of production; use Ceph Tentacle 20.2 and test CephX key rotation in a lab first.