

Snapshot CopyUsing Primary Storage



speaker:
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Snapshot Copy Using Primary Storage

StorPool Storage Nikolay Tenev



StorPool Primary Storage Platform for CloudStack/KVM

Parallel multi-node shared-nothing architecture

Software-only, hardware agnostic

Always-on non-disruptive everything

Linearly scalable

Block first, some file

Made for large scale & Modern IT

Ultimate performance and efficiency

Integration with CloudStack & active in the community

Snapshot Copy Using Primary Storage

More flexible DR setups

Remote backups with configurable retention policies

Migration from staging to production

Many others...



NFS layer-over-layer-over-layer architecture

workloads handled by system VM(s)

additional virtual drive conversion

!

What If Your Primary Storage Can:

Create snapshots

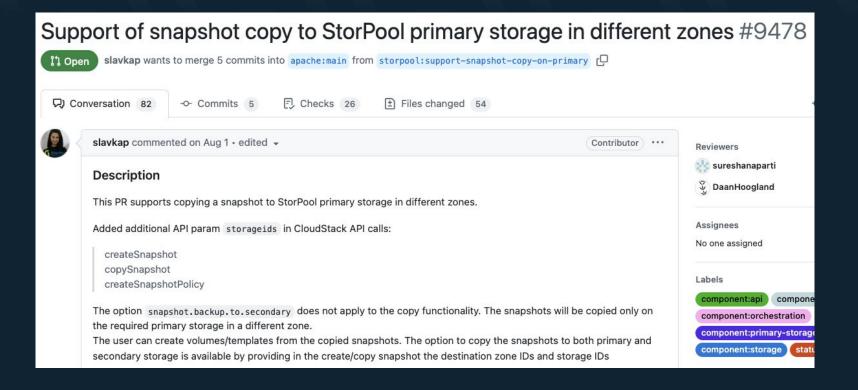
Create incremental snapshots

Send these snapshots to a remote location

Create volumes without conversion

What If Your Primary Storage Can:





For other storage plugins that want to adopt this functionality:

- The Primary storage driver should have the capability CAN_COPY_SNAPSHOT_BETWEEN_ZONES
- the respective plugin needs to implement the copySnapshot method in their SnapshotStrategy and that the driver can handle the COPY operation

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CAN_COPY_SNAPSHOT_BETWEEN_ZONES



implement copySnapshot in SnapshotStrategy

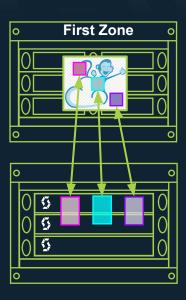


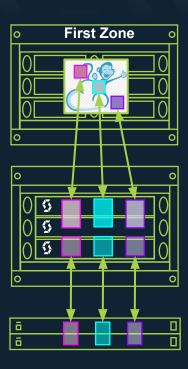
the driver can handle the COPY operation

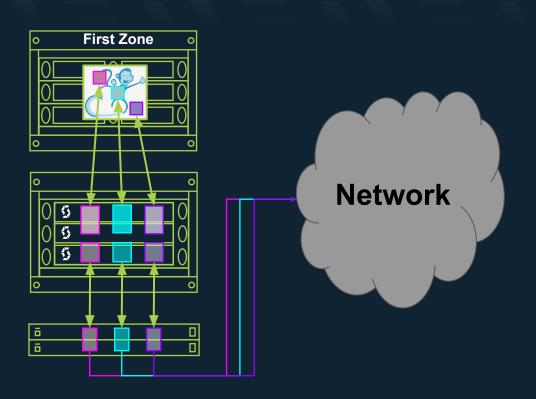


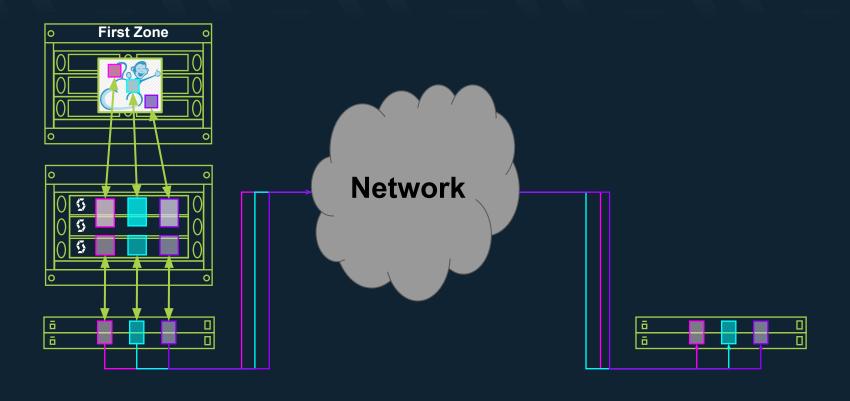
CloudStack 4.19 vs CloudStack 4.21 (+PR #9478)

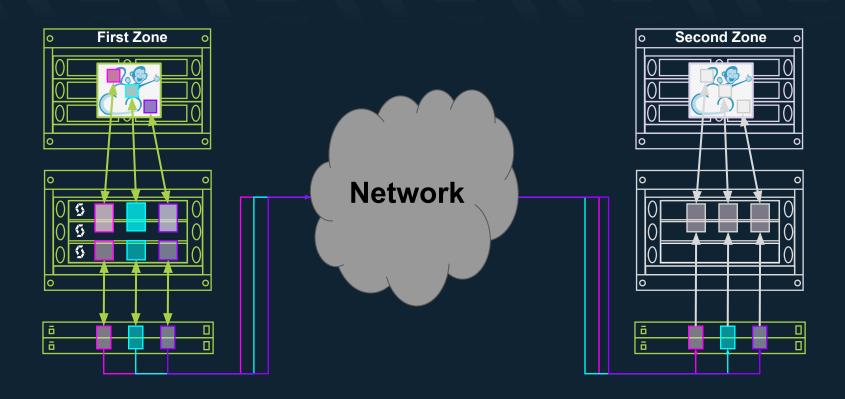


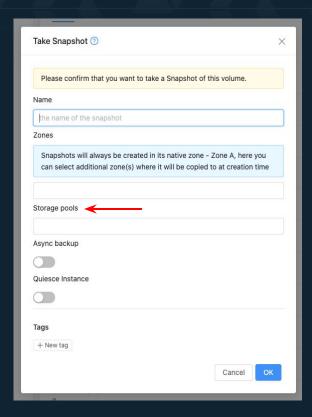


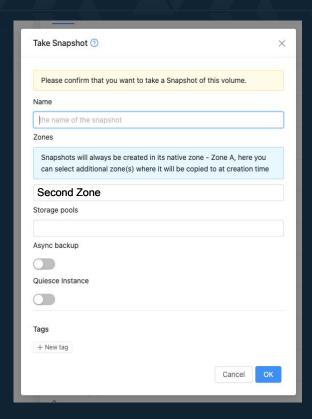


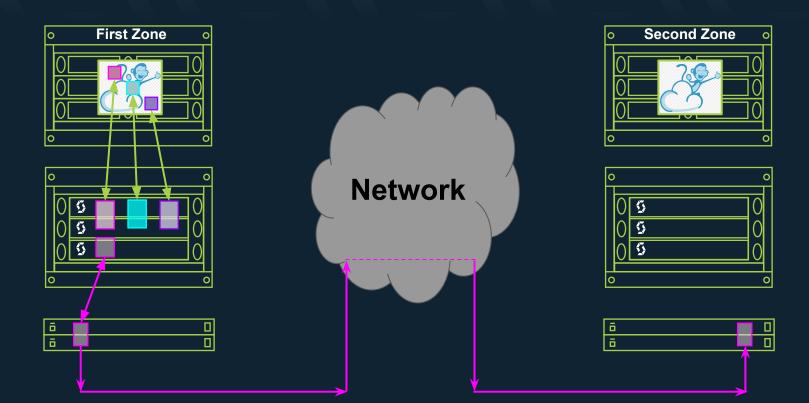


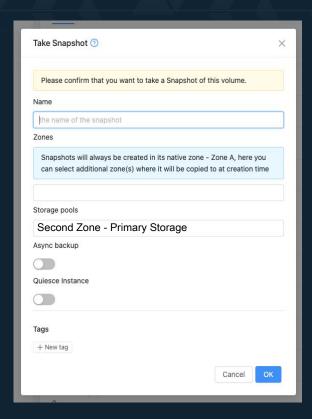


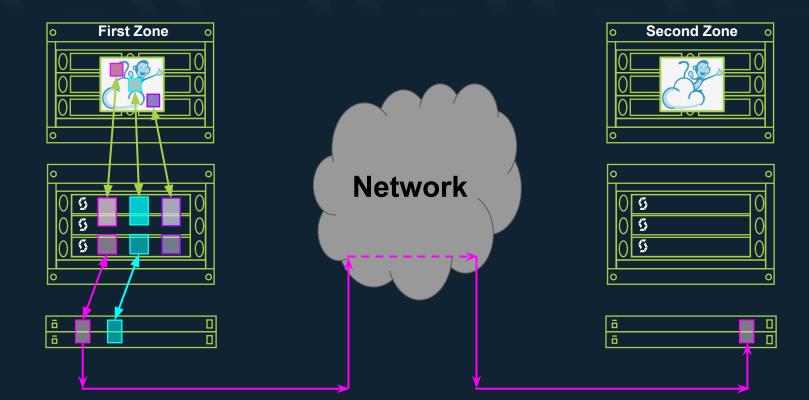


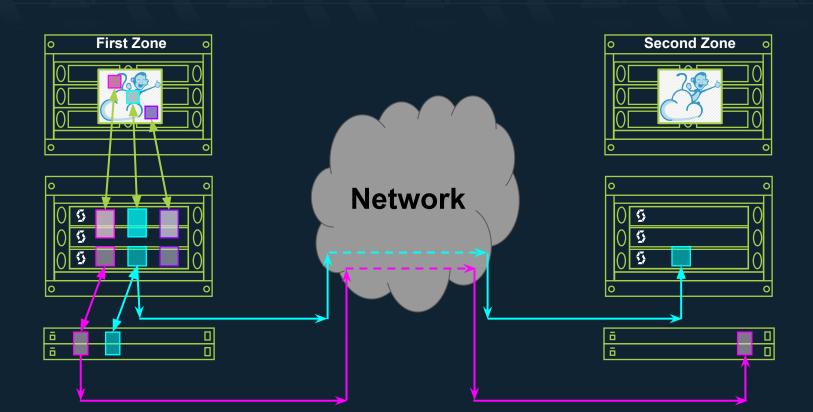


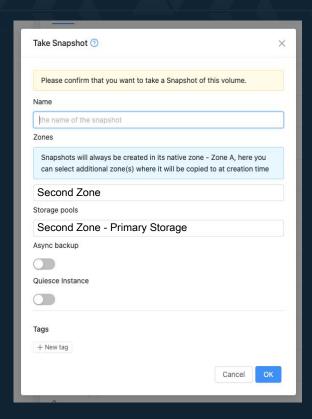


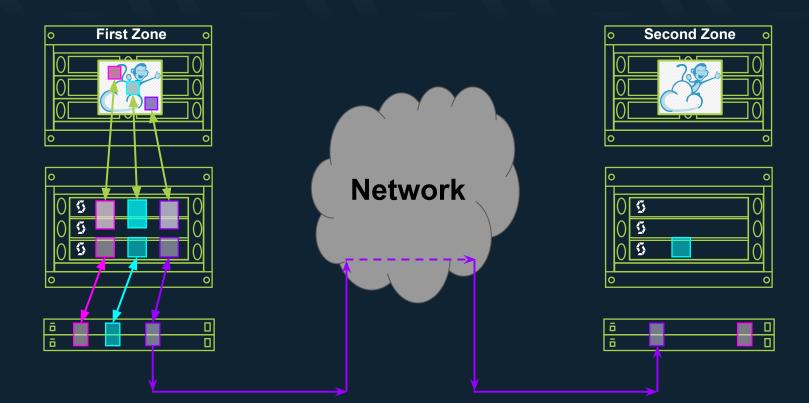


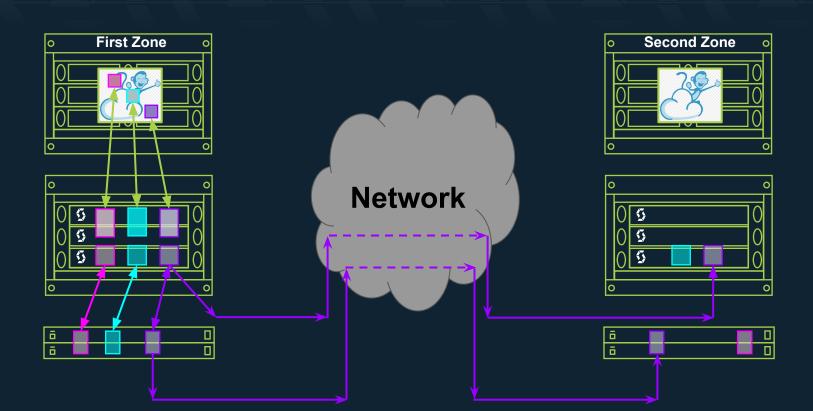












Benefits

Better scalability

Lower time for recovery

More DR scenarios covered



Questions





