DON'T GET BURNED WHEN DISASTER STRIKES

Purity ActiveCluster provides simple, affordable business continuity with a true Active/Active metro stretch cluster for SAP and SAP HANA platforms.

PURESTORAGE®

Your business relies on SAP® and SAP HANA® workloads. But what would you do if disaster struck? If one of your data centers went up in flames, could you keep your business running without interruption?

To stay competitive, you need a bullet-proof business-continuity plan in place, but you can't afford to blow your entire IT budget on the infrastructure and expertise needed to make that happen. Now there's a simple, affordable solution: Pure Storage® Purity ActiveCluster offers high availability and disaster recovery for SAP platforms.

Purity ActiveCluster keeps your SAP and SAP HANA workloads running smoothly, even when disaster strikes, by delivering a true Active/Active cluster that is simple, reliable, and built into Pure Storage FlashArray//M and FlashArray//X solutions. If one site goes down, a second takes over seamlessly with no disruption to users. The result is true business continuity with no add-on costs.

REDUCE COST AND COMPLEXITY FOR DISASTER RECOVERY

Several vendors offer synchronous replication and stretch clustering for SAP HANA, but those solutions are typically complex and costly. Third-party offerings frequently force you to purchase software licenses, and they can take days to configure. Many disaster-recovery solutions also require you to deploy additional complex hardware and software that might require specialized and costly professional services to configure. Add all these costs up and the price of successfully implementing a traditional stretch cluster can exceed $100,000.[1]

Pure Storage can help you achieve your business-continuity objectives without that additional overhead with Purity ActiveCluster: a true Active/Active metro stretch cluster that minimizes downtime for your production SAP and SAP HANA environments in the event of outages or upgrades. Easy-to-configure Purity ActiveCluster helps you keep your mission-critical workloads running with high availability and synchronous replication. And Purity ActiveCluster is included with all Pure Storage FlashArray//M and FlashArray//X solutions, so there are no additional infrastructure or licensing costs.
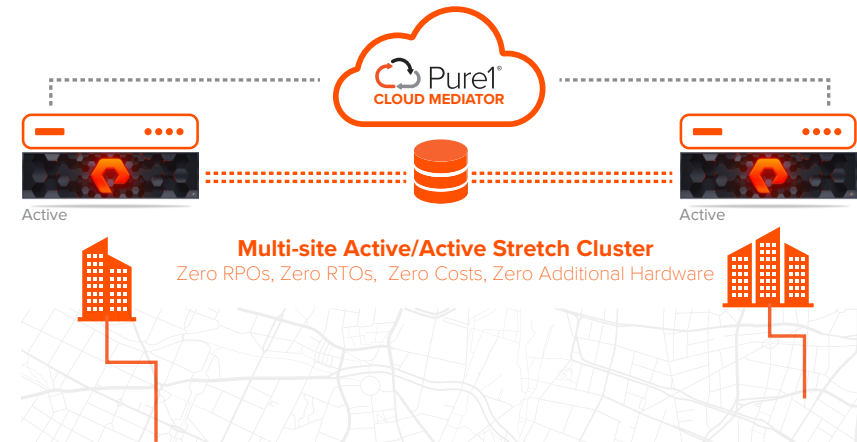
Figure 1. Purity ActiveCluster provides synchronous, Active/Active replication between two FlashArray solutions across your data center, campus, or metro region
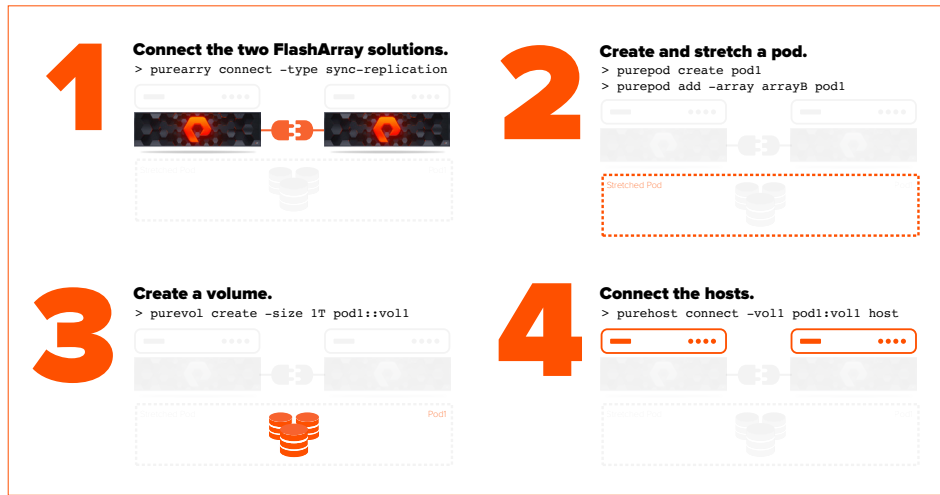
STRETCH CLUSTERING MADE SIMPLE

Purity ActiveCluster is built on three core components:

- **Active/Active clustered FlashArray solutions**, which use synchronous replication to maintain a copy of your SAP HANA data on two Pure Storage FlashArrays. Data is presented as one, consistent copy to hosts that are connected to either or both arrays.
- **Stretched storage pods**, which are management containers that collect storage objects, such as volumes, into groups that are stretched between two FlashArrays.
- **Pure1® Cloud Mediator**, which automatically and transparently determines which FlashArray will maintain SAP HANA data services if an outage occurs. Pure1 Cloud Mediator is a cloud-based service provided by Pure Storage. No additional infrastructure is required to access the mediator.

Purity ActiveCluster can be configured easily in minutes, with just four steps. Simply connect the two FlashArray solutions, create a stretch pod, create a volume, and then connect the hosts, as shown in Figure 2.

BUSINESS CONTINUITY IN FOUR STEPS

1 Connect the two FlashArray solutions.
```
> purearry connect –type sync-replication
```

2 Create and stretch a pod.
```
> purepod create pod1
> purepod add –array arrayB pod1
```
Stretched Pod

3 Create a volume.
```
> purevol create –size 1T pod1::vol1
```
Pod1

4 Connect the hosts.
```
> purehost connect –vol1 pod1:vol1 host
```

Figure 2. In just four simple steps, you can configure a true Active/Active metro stretch cluster with Purity ActiveCluster.

Once configured, the stretch cluster delivers transparent failover if one of your sites goes down. You don't need to take any manual steps; the process is completely automatic and occurs with no impact on users and no loss of your critical SAP HANA data.

The key to automatic continuity with Purity ActiveCluster is Pure1 Cloud Mediator, which eliminates the need for a third site. Pure1 Cloud Mediator is software provided as a service by Pure Storage. It ensures that one FlashArray stays active for each stretch pod if there's a loss of communication between the FlashArrays. This prevents data conflicts between the FlashArrays. When the second FlashArray is back online, all original storage paths are automatically restored.

MAINTAIN PEAK PERFORMANCE

Active/Active stretch clusters are a critical component for high availability and disaster recovery. But stretch clusters shouldn't impact your business by dragging down database transactions. With Purity ActiveCluster, they won't. That's because Purity ActiveCluster uses inline compression to reduce the amount of data traveling across your network, which helps maintain high performance for your SAP and SAP HANA workloads.

Purity ActiveCluster further optimizes performance by enabling a preferred-array option. To ensure availability, reads and writes for a given volume are handled by the FlashArrays on both sites simultaneously. You can use the preferred-array option to specify that each host always uses the closest storage array for data, in order to maximize performance (see Figure 3). Of course, Purity ActiveCluster still allows the host to access data directly from the remote FlashArray if the local FlashArray becomes unavailable.
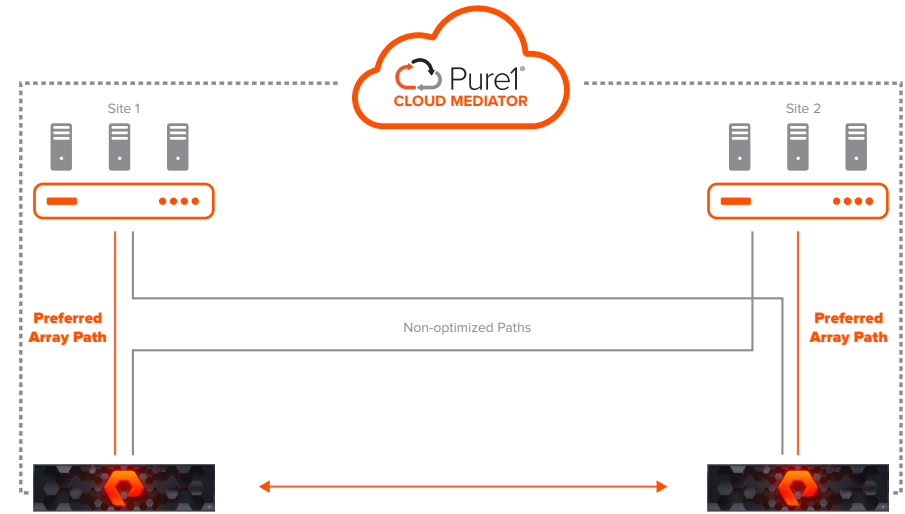
Figure 3. When the "preferred array" option is enabled, each host can be configured to use the FlashArray located at the same site as the host. If that FlashArray becomes unavailable, Purity ActiveCluster still automatically fails over to the other FlashArray.

SIMPLE, RELIABLE DISASTER RECOVERY, WITH NO ADDED FEES

Pure Storage offers full integration with SAP and other vendors for asynchronous storage replication options for SAP HANA data. Those options are well suited to businesses that need to replicate data across regional or global distances. But for high availability across the data center or metro area with zero recovery-time objectives (RTOs), zero recovery-point objectives (RPOs), and Active/Active synchronous replication, Purity ActiveCluster provides business continuity that's simple.

And because Purity ActiveCluster is included with each Pure Storage FlashArray solution, you have no added costs.

Learn more at **www.purestorage.com/solutions/applications/sap.html**, then call or click to talk with your Pure Storage sales team today.

800-379-PURE (7873) // sales@purestorage.com

Achieve True Business Continuity with Purity ActiveCluster and the Pure Data-Centric Architecture for SAP and SAP HANA

Pure Storage makes it easy to manage and protect your SAP and SAP HANA data with a range of data-protection capabilities built into every Pure Storage array:

- True Active/Active metro stretch cluster
- Fast, easy setup
- High availability and disaster recovery with no added licenses
- No added costs, and no added appliance to buy and manage

Compared to traditional hard-disk drives, Pure Storage all-flash, 100% NVM Express® (NVMe™) FlashArray solutions provide:

- Nearly 5x faster SAP backup operations[2]
- 8x faster recovery and failover times[2]

[1] Pure Storage. "ActiveCluster — Simple Stretch Clustering for All." June 2017.
https://blog.purestorage.com/activecluster-simple-stretch-clustering/.

[2] Pure Storage. "SAP HANA Supercharged."
www.purestorage.com/content/dam/purestorage/pdf/datasheets/ps_ds_SAP-HANA_v4.pdf.

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