



ABS Cloud High Availability

Delivering the highest level of Cloud availability and reliability.

www.e2abs.com

info@e2abs.com

+962 6 592 8450



ABS VMware HA - Cloud High Availability

What is VMware HA?

VMware HA is a powerful feature that provides high availability to all servers on the cloud. It does this by leveraging hosts and resources of a cluster to reserve capacity so that workloads can automatically go into failover mode in case of host failures.

Hosts in the cluster are monitored; in the event of a failure, the VMs (virtual machines) on a failed host are restarted on alternative hosts. Host failure remediation is the responsibility of VMware.

The following ABS Cloud vSphere HA settings are applied to clusters, maximizing productivity while minimizing overhead, as well as providing the best balance between economics and availability:

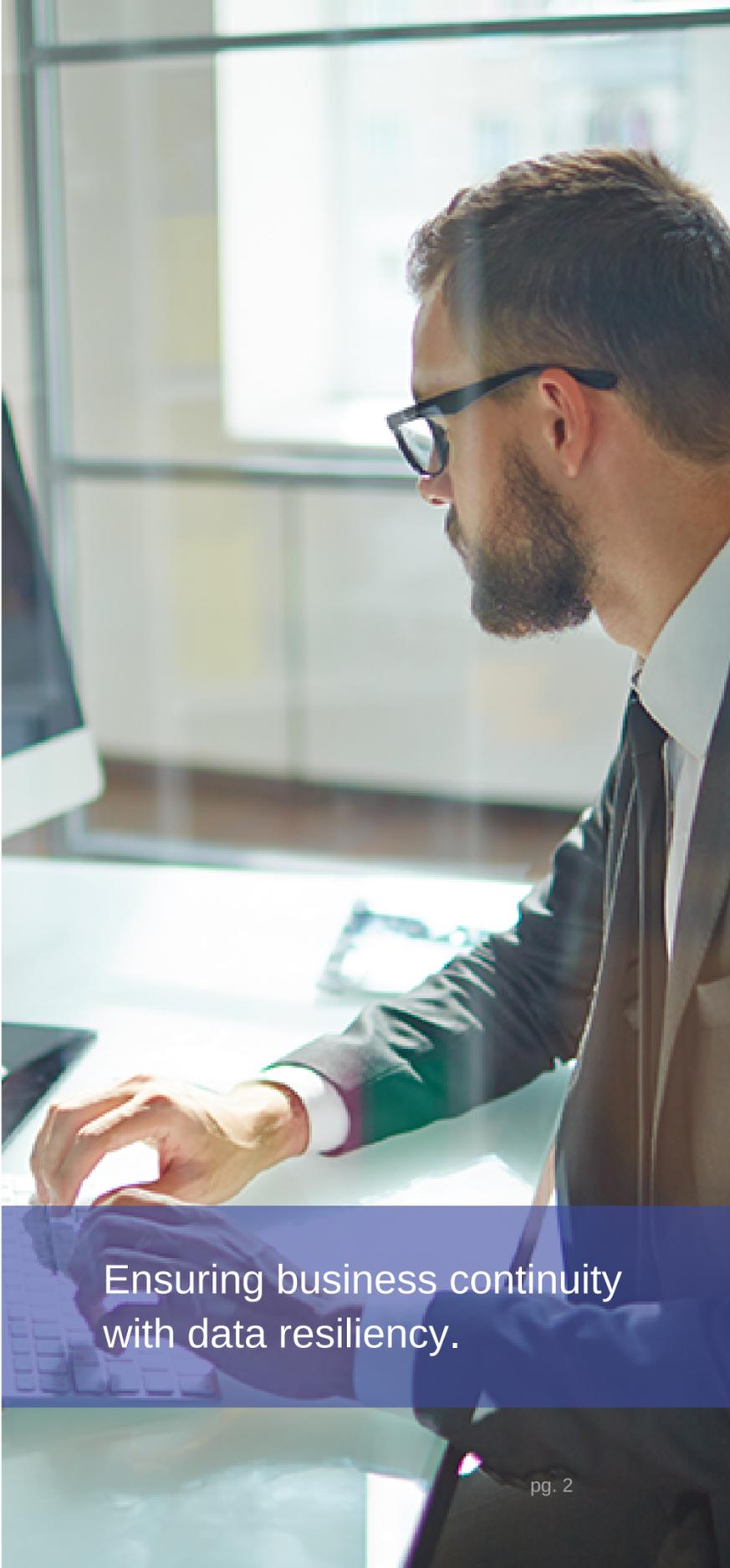
- ▲▲▲ Host monitoring enabled
- ▲▲▲ Percentage-based admission control policy
- ▲▲▲ Host failures tolerated: 2
- ▲▲▲ VM and application monitoring enabled
- ▲▲▲ Host isolation response: power off and restart VMs

How vSphere HA settings work

vSphere HA provides high availability for virtual machines by pooling the virtual machines and the hosts they reside on into a cluster.

Hosts in the cluster are monitored, and in the event of a failure, the virtual machines on a failed host are restarted on alternate hosts. When creating a vSphere HA cluster, a single host is automatically elected as the master host. The master host communicates with vCenter Server and monitors the state of all protected virtual machines and of the slave hosts.

Different types of host failures are possible. The master host must detect and appropriately deal with the failure by distinguishing between a failed host and one that is in a network partition or that has become network isolated. It makes this distinction by using network and datastore heartbeating to determine the type of failure.



Ensuring business continuity
with data resiliency.