

Fault Tolerance	
Fault Tolerance Status:	Protected
Secondary Location:	hvesx02.hypervisor.com
Total Secondary CPU:	50MHz
Total Secondary Memory:	40,00MB
Secondary VM Lag Time:	✔ 0.011seconds
Log Bandwidth:	16kbps

The FT stats view in vCenter Server

Primary VM



Secondary VM



vLockstep

ESX 4.0 Host
 hvesx03.hypervisor.com

Standby Host

A stand by host in case of primary/secondary failures, FT will automatically assign the free host in the HA cluster to take over the protection without any human intervention.

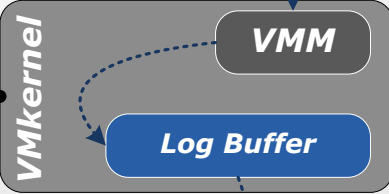
HA Enabled Cluster

ESX 4.0 Host
 hvesx01.hypervisor.com

ESX 4.0 Host
 hvesx02.hypervisor.com

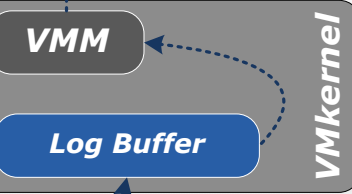
Record

Nondeterministic events
 • Input (network, user), asynchronous I/O (disk, devices), CPU timer events



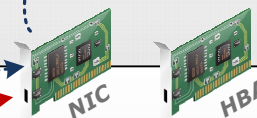
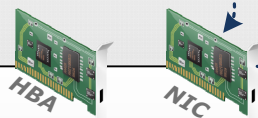
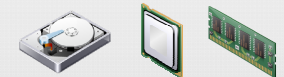
Asynchronous Logs

Acks



Play

Nondeterministic events delivered and replayed
 • Result = repeatable virtual machine execution



0.011s Logging Traffic 16kbps
 Heartbeat Pings



Shared Storage
 FCP / iSCSI / NFS

Standby Failover