Out-of-Band VM-Based Replication

- Less likely to create support issues
- Supports any host, regardless of hardware platform or operating system
- Usually restricted to replicating to a remote device
- No special requirements for the storage layer

Based Replication

- Storage Layer Signals "Write in Progress"
- Storage Layer Writes to Local Device
- Storage Layer Writes to Remote Device
- Asynchronous

Synch vs. Asynch Replication

- Synchronous operation
- Local Device
- Remote Device
- Backup
- Host Issues Write
- Database platforms are the most common implementation of based replication
- Some data replication products offer consistency group capabilities at present
- Solution vendors have enabled consistency groups to avoid data corruption if one such LUN or entity is lost
- Replication based approaches that can support any application
- Virtualization replication solutions can offload all the work of replicating data to a storage array controller or storage virtualization layer
- Cost savings associated with the use of software on the host
- Synchronous replication based approaches can support any application
- May require replication capabilities in the host operating system

Examples of based replication solutions:
- Carbonite
- VITAv
- Zerto's IT Resilience Platform
- One example is Zerto's IT Resilience Platform
- Made these solutions easier to deploy and support DR configurations

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