

# 8 REASONS TO VIRTUALIZE

## Business Critical Systems

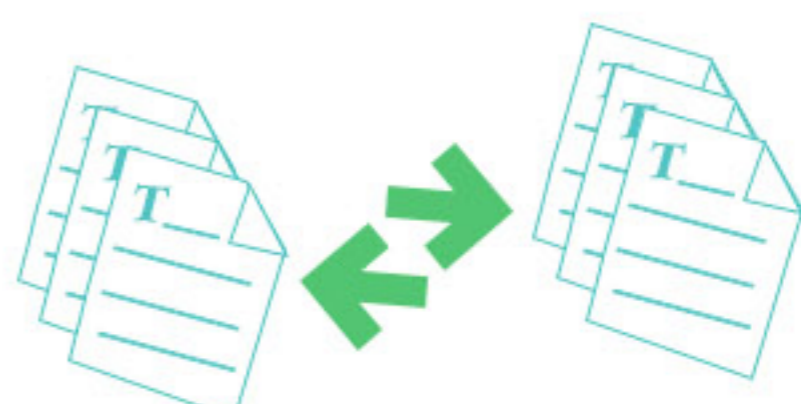
Many times companies have concerns regarding virtualizing their business critical systems, since these systems can have such a huge impact on their day-to-day operations. However, there are several major benefits that come from virtualizing these key applications as described below.

### COST REDUCTION

This comes in the form of both CapEx reductions from hardware optimization and Oracle licensing, and OpEx reductions from reduced support costs, improved manageability, shorter development cycles, improved QA.



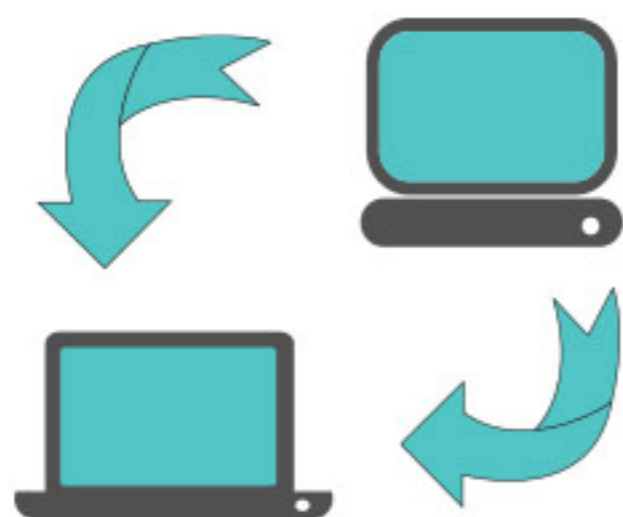
### NEAR 100% RELIABLE DR



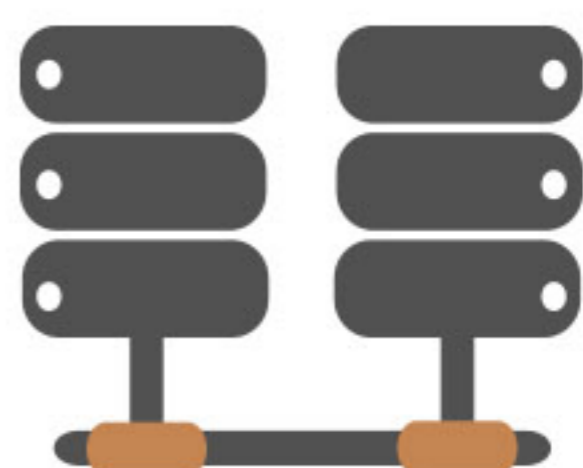
Through the use of VMware or third party tooling, the VM as a whole can be replicated to a DR site. VMware virtualization provides near 100% recoverability.

### PRODUCT RELEASE CYCLE OPTIMIZATION

Fast and complete environment cloning; isolated test environments; quick server provisioning; improved development server management, etc.



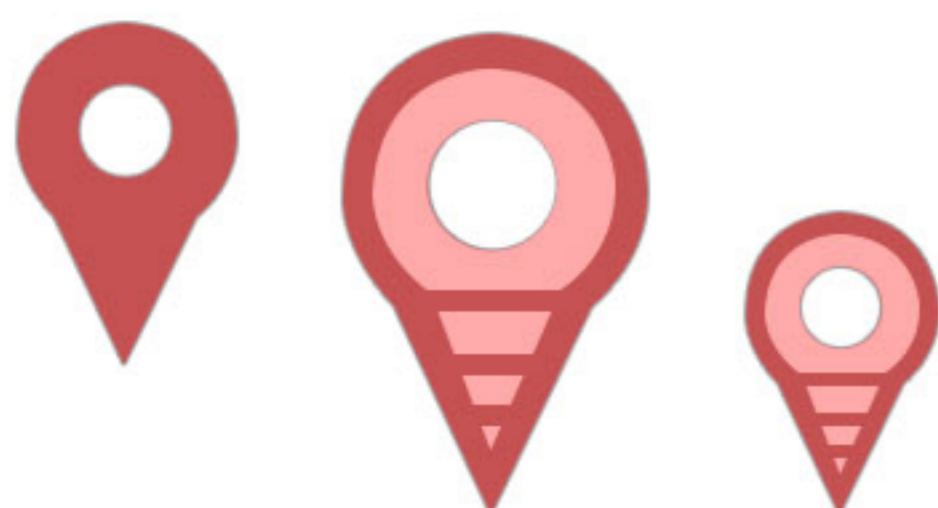
### HIGH AVAILABILITY



In the case of hardware failure, VMware HA can restart a VM in a matter of minutes, which is sufficient for most applications. In addition, this doesn't prohibit additional HA components at the software layer.

### LICENSE OPTIMIZATION

Load hardware with more workloads without paying for more hardware-based licenses; combine preproduction and production workloads on the same servers; optimize DR licensing.



### FLEXIBILITY IN DEPLOYMENT



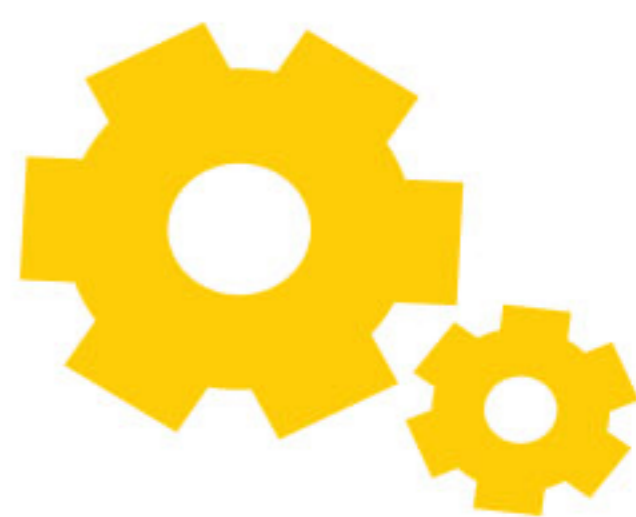
Whether one is looking to develop an internal cloud architecture or looking to leverage the public cloud for a hybrid or fully outsourced strategy, virtualizing business critical systems offers the flexibility to explore each of these options seamlessly.

### SECURITY CONSIDERATIONS

Complete isolation between systems on the same host; smaller attack target footprint; processor-based VM security assist; randomization of executable locations; Dynamic Binary Translation; zero-based memory; storage isolation between VM's that prevents wide-scale data corruption; virtual switches less vulnerable to MAC spoofing, random frame, and other types of attacks, etc.



### IMPROVED QA




With more production-like development and QA environments, fewer bugs are able to make it through testing cycles due to any differences between the environments.



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