



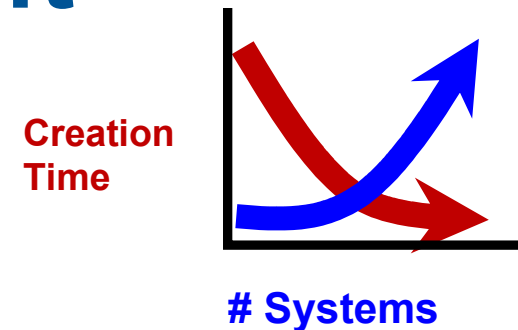
Management Tools for the New Virtual Data Center

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THE LEADING BUSINESS TECHNOLOGY EVENT

Virtual Management Paradigm Shift

- Speed (Rate of Change)
 - Order of Magnitude decrease
- Scale
 - Order of Magnitude increase
- Complexity
 - Diversity, variance, states
- Processes
 - Change, Release, Configuration, Operations, Security, CMDB, ...



Virtualization Dynamics

- Virtual Systems:
 - **Not anchored** to a physical machine
 - Can be assigned **arbitrary identities**
- Virtual Systems can:
 - Be **copied** and **cloned**
 - Move **back in time** due to snapshots
 - Have **parents** and **children**
 - Exist **offline** and **online**
 - Be **highly customized** and optimized
 - Bought as **virtual appliances**
 - **Compiled** from applications
 - **Teleport** between systems while running

Management Perspective Shift

	Virtual = Physical	Virtual <> Physical	Virtual > Physical
Environment	Virtual No Different From Physical	Virtual Different From Physical	Virtual Better Than Physical
Tools and Techniques	Built for Physical Environment	Modified for Virtual Environment	Leveraging Virtual Environment
Mode	Compatibility	Accommodation	Exploitation
Agents	Same	Updated to Add Virtual Support	Moved to Virtualization Fabric
Automation	Lists, Scripts, and Jobs	Modified to Invoke Virtualization APIs	Models, States, and Policies Built for Virtualized Environments