

# Cloud Technology Architecture Compound Design Patterns Mapping Reference Matrix

X - required design pattern  
O - optional design pattern

	Automated Administration	Burst In	Burst Out to Private Cloud	Burst Out to Public Cloud	Cross-Storage Device Vertical Tiering	Direct I/O Access	Direct LUN Access	Dynamic Data Normalization	Dynamic Failure Detection and Recovery	Elastic Scalability	Elastic Disk Provisioning	Elastic Network Capacity	Elastic Resource Capacity	Hypervisor Clustering	Intra-Storage Device Vertical Tiering	Load Balanced Virtual Server Instances	Load Balanced Virtual Server Switches	Multitenant Environment	Persistent Virtual Network Configurations	Rapid Provisioning	Redundant Physical Connection for VS	Resource Pooling	Resource Reservation	Service Load Balancing	Shared Resources	Storage Maintenance Window	Storage Workload Management	Synchronized Operating State	Usage Monitoring	Workload Distribution	Zero Downtime
Elastic Environment	X			X	O	O	O		X	X	X	X	X					X	O	X	O	O			X	X	X				
Resilient Environment								X					X		X		X	X	X		X		O		X	X	X	O			
Multitenant Environment																				X	O		X								
Cloud Bursting		X	X	X																											
Burst Out to Private Cloud	X				O					X		X				O	X	X		X	O	O	O				X	X			
Burst Out to Public Cloud	X				O					X		X				X	X	X		X	X	X	O				X	X			
Burst In	X				O																X						X				
Cloud Balancing	X											X	X		X			X	X	X	X		X		X			X			

The Isolated Trust Boundary pattern is intentionally excluded from this matrix.

