

Cloud Technology Architecture Design Patterns and Mechanisms Mapping Reference Matrix

X - design pattern is commonly associated with mechanism

	Automated Administration	Bare-Metal Provisioning	Broad Access	Centralized Remote Administration	Cross-Storage Device Vertical Tiering	Direct I/O Access	Direct LUN Access	Dynamic Data Normalization	Dynamic Failure Detection and Recovery	Dynamic 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	Multipath Resource Access	Non-Disruptive Service Access	Pay-as-you-Go	Persistent Virtual Network Relocation	Platform Provisioning	Rapid Provisioning	Realtime Resource Configurations	Redundant Resource Availability	Redundant Physical Connection for VS	Resource Management	Resource Pooling	Resource Reservation	Self-Provisioning	Service Load Balancing	Service State Balancing	Shared Resources	Storage Maintenance	Storage Maintenance Window	Synchronized Operating State	Usage Monitoring	Workload Distribution	Zero Downtime
Audit Monitor			X	X			X															X			X	X	X	X			X		X		X	X	X		
Automated Scaling Listener	X				X			X		X	X		X	X																			X		X				
Billing Management System			X														X																						
Cloud Storage Device	X	X			X		X	X		X	X		X			X	X					X			X		X	X			X	X	X	X	X	X		X	X
Cloud Usage Monitor	X			X	X	X	X		X	X	X	X		X	X	X		X	X				X			X	X	X	X	X	X	X	X		X		X	X	X
Failover System								X																X	X							X		X					X
Hypervisor	X	X				X	X		X	X	X	X	X		X	X	X	X		X	X	X		X		X	X			X	X			X		X		X	X
Load Balancer														X	X														X					X		X	X		
Logical Network Perimeter		X		X		X					X		X	X	X				X				X			X	X	X	X			X		X			X	X	
Multi-Device Broker			X	X																								X											
Pay-Per-Use Monitor				X	X	X	X		X	X	X	X					X	X								X				X							X		
Ready-Made Environment																					X																		
Remote Administration System				X																						X	X	X	X										
Resource Cluster												X		X															X								X	X	
Resource Management System		X		X																	X					X	X	X											
Resource Replication	X	X			X	X		X	X	X	X	X		X	X	X	X		X	X	X		X	X		X	X		X	X	X	X	X	X	X	X	X	X	X
SLA Management System		X						X									X							X															
SLA Monitor				X				X									X							X													X		
State Management Database																														X					X				
Virtual Server	X					X	X		X	X	X	X	X		X	X	X	X		X	X	X		X		X	X			X	X			X		X		X	X

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

