

Cloud Technology Architecture Compound Design Patterns Mapping Reference Matrix

X - required design pattern
O - optional design pattern

		Automated Administration	Burst In	Bare-Metal Provisioning	Broad Access	Burst Out to Private Cloud	Burst Out to Public Cloud	Centralized Remote Administration	Cross-Storage Device Administration	Direct I/O Access	Dynamic LUN Access	Dynamic Data Normalization	Dynamic Failure Detection and Recovery	Elastic Scalability	Elastic Disk Provisioning	Elastic Environment	Elastic Network Capacity	Elastic Resource Capacity	Hypervisor Clustering	Intra-Storage Device Vertical Tiering	Load Balanced Virtual Server Instances	Load Balanced Virtual Switches	Multitenant Resource Access	Non-Disruptive Environment	Pay-as-You-Go	Persistent Virtual Service Relocation	Platform Provisioning	Rapid Provisioning	Realtime Resource Configurations	Redundant Resource Availability	Redundant Physical Connection for VS	Resilient Environment	Resource Management	Resource Pooling	Resource Reservation	Self-Provisioning	Service Load Balancing	Service State Management	Shared Resources	Storage Maintenance Window	Storage Workload Management	Usage Monitoring	Workload Distribution	Zero Downtime
Module 4	Private Cloud	X		O	X		X							X							X	O	O			X	X			X	X	X		X					X	X				
	Public Cloud	X		O	X		X							X							X	O	X			X	X			X	X	X	O	X						X	X			
	Infrastructure-as-a-Service	X		O	X		X					X								X	X	X			X	X			X	X		X							X	X				
	Platform-as-a-Service	X			X		X					X									X	O	X		X	X	X			X	X	O	X		X	X				X	X			
	Software-as-a-Service	X			X		X					X									X	O	X			X	X			X		O	X		O	X				X	X			
Module 5	Elastic Environment	X					X	O	O	O		X	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										X			X							O		X	X			X		O	O	O							X	X				
	Burst Out to Public Cloud	X										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.

