

# 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	Dynamic Scalability	Multipath Resource Access	Non-Disruptive Service Relocation	Pay-as-You-Go	Platform Provisioning	Rapid Provisioning	Realtime Resource Availability	Resource Management	Resource Pooling	Resource Reservation	Self-Provisioning	Service State Management	Shared Resources	Usage Monitoring	Workload Distribution
Audit Monitor			X							X	X	X	X	X		X	X	X	
Automated Scaling Listener	X				X												X		
Billing Management System			X				X												
Cloud Storage Device	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
Hypervisor	X	X			X	X	X		X	X		X	X		X	X			X
Load Balancer																	X	X	
Logical Network Perimeter		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		
Ready-Made Environment								X											
Remote Administration System				X							X	X	X	X					
Resource Cluster																			X
Resource Management System		X		X				X			X	X	X						
Resource Replication	X	X			X	X	X		X	X		X	X		X	X			X
SLA Management System		X					X			X									
SLA Monitor				X			X			X								X	
State Management Database															X				
Virtual Server	X				X	X	X		X	X		X	X		X	X			X

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



Certified Cloud Architect (CCA) Program  
 Module 4: Fundamental Cloud Architecture  
 Official Mind Map Supplement  
[www.cloudselfstudy.com](http://www.cloudselfstudy.com)



CloudSchool.com™ Certified Cloud Architect (CCA) Program  
[www.arcitura.com](http://www.arcitura.com) • [www.cloudschool.com](http://www.cloudschool.com)  
 Copyright © Arcitura Education Inc.