Module 17
Advanced Cloud Virtualization

Basic Virtualization
- Shared Resources

Connectivity & Accessibility
- External Virtual Server Accessibility
- Virtual Server NAT Connectivity
- Virtual Server-to-Host Connectivity
- Virtual Server Connectivity Isolation
- Virtual Switch Isolation

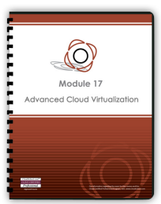
Performance & Capacity
- Direct I/O Access
- Single Root I/O Virtualization
- Direct LUN Access
- NIC Teaming

Scaling
- Elastic Resource Capacity
- Load Balanced Virtual Server Instances
- Load Balanced Virtual Switches
- Resource Workload Management
  - required
    - Resource Pooling
    - Elastic Resource Provisioning
    - Load Balanced Virtual Server Instances
    - Load Balanced Virtual Switches
    - Storage Workload Management
    - Storage Capacity Assurance
    - Storage Performance Assurance
  - optional
    - Automated Administration

Hosting
- Virtual Server-to-Host Affinity
- Virtual Server-to-Host Anti-Affinity
- Virtual Server-to-Virtual Server Affinity
- Virtual Server-to-Virtual Server Anti-Affinity
- Memory Over-Committing
- Power Consumption Reduction

Failover & Recovery
- Resource Pooling
- Resource Reservation
- Virtual Server Auto Crash Recovery
- Hypervisor Clustering
- Redundant Physical Connection for Virtual Servers
- Zero Downtime

Migration & Relocation
- Cross-Hypervisor Workload Mobility
- Non-Disruptive Service Relocation
- Persistent Virtual Network Configuration
- Virtual Server Folder Migration
- Virtual Disk Splitting
- Stateless Hypervisor



Cloud Certified Professional (CCP) Program
Module 17: Advanced Cloud Virtualization
Official Mind Map Supplement
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