AWS Architecting

Course Topics

1: INTRODUCTION
Introduction to AWS
Cloud computing service models
Benefits of moving to the Cloud
Common problems encountered at AWS

2: BASIC PATTERNS
Introducing Vagrant
Snapshot pattern
Stamp pattern
Scale up pattern
Scale out pattern
On-demand disk pattern

3: PATTERNS FOR HIGH AVAILABILITY
Multi-server pattern
Multi-data center pattern
Floating IP pattern
Deep health check pattern

4: PATTERNS FOR PROCESSING STATIC DATA
High availability storage
Direct storage hosting
Private data delivery
Content delivery networks
Rename distribution pattern

5: PATTERNS FOR PROCESSING DYNAMIC DATA
Clone server pattern
NFS sharing pattern
State sharing pattern
URL rewriting pattern
Cache proxy pattern

6: PATTERNS FOR UPLOADING DATA
Write proxy pattern
Storage index pattern
Direct object upload pattern

7: PATTERNS FOR DATABASES
Database replication pattern
Read replica pattern
In-memory cache pattern
Sharding write pattern

8: PATTERNS FOR DATA PROCESSING
Queuing chain pattern
Priority queue pattern
Job observer pattern

9: PATTERNS FOR OPERATION AND MAINTENANCE
Bootstrap pattern
Cloud dependency injection pattern
Stack deployment pattern
Monitoring integration pattern
Web storage archive pattern
Weighted transition pattern
Hybrid backup pattern

10: PATTERNS FOR NETWORKING
OnDemand NAT pattern
Management network pattern
Functional firewall pattern
Operational firewall pattern
Web application firewall pattern
Multiple load balancer pattern

11: THROW-AWAY ENVIRONMENTS
Infrastructure as code
Temporary development environments
Continuous integration