

CompTIA Cloud+ Certification Exam Objectives

EXAM NUMBER: CV0-002



About the Exam

The CompTIA Cloud+ certification is an internationally recognized validation of the knowledge required of IT practitioners working in cloud computing environments. The CompTIA Cloud+ CVo-002 exam will certify the successful candidate has the knowledge and skills required to:

- Understand standard cloud methodologies
- · Implement, maintain and deliver cloud technologies (e.g., network, storage and virtualization technologies
- · Understand aspects of IT security and use industry best practices related to cloud implementations

It is recommended that CompTIA Cloud+ candidates have the following:

- CompTIA Network+ certification and/or CompTIA Server+ certification, although CompTIA certifications are not required
- · At least 24-36 months of work experience in IT networking, network storage or datacenter administration
- Familiarity with any major hypervisor technologies for server virtualization, although vendor-specific certifications in virtualization are not required
- Knowledge of cloud service model (IaaS, Paas, Saas) definitions
- Knowledge of common cloud deployment model (private, public, hybrid) definitions
- · Hands-on experience with at least one public cloud IaaS platform

EXAM DEVELOPMENT

CompTIA exams result from subject matter expert workshops and industry-wide survey results regarding the skills and knowledge required of an entry-level IT professional.

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PLEASE NOTE

The lists of examples provided in bulleted format are not exhaustive lists. Other examples of technologies, processes or tasks pertaining to each objective may also be included on the exam although not listed or covered in this objectives document. CompTIA is constantly reviewing the content of our exams and updating test questions to be sure our exams are current and the security of the questions is protected. When necessary, we will publish updated exams based on existing exam objectives. Please know that all related exam preparation materials will still be valid.



TEST DETAILS

Required exam CV0-002

Number of questions Maximum of 90

Type of questions Multiple choice and performance-based

Length of test 90 minutes

Recommended experience • At least 24–36 months of work experience in IT networking,

network storage or datacenter administration

• Familiarity with any major hypervisor technologies

 $for server\ virtualization, though\ vendor-specific\ certifications$

in virtualization are not required

 $\bullet \, \mathsf{CompTIA} \, \mathsf{Network+} \, \mathsf{and/or} \, \mathsf{CompTIA} \, \mathsf{Server+}, \, \mathsf{though} \,$

CompTIA certifications are not required

• Knowledge of cloud service model (IaaS, PaaS, SaaS) definitions

• Knowledge of common cloud deployment model

(Private, Public, Hybrid) definitions

• Hands-on experience with at least one public cloud IaaS platform

Passing score 750 (on a scale of 100–900)

EXAM OBJECTIVES (DOMAINS)

The table below lists the domains measured by this examination and the extent to which they are represented:

DOMAIN	PERCENTAGE OF EXAMINATION
1.0 Configuration and Deployment	24%
2.0 Security	16%
3.0 Maintenance	18%
4.0 Management	20%
5.0 Troubleshooting	22%
Total	100%





1.0 Configuration and Deployment

- Given a scenario, analyze system requirements to ensure successful system deployment.
 - Appropriate commands, structure, tools, and automation/orchestration as needed
 - · Platforms and applications
 - Interaction of cloud components and services
 - Network components

- Application components
- Storage components
- Compute components
- Security components
- Interaction of non-cloud components and services

- Baselines
- Target hosts
- Existing systems
- · Cloud architecture
- · Cloud elements/target objects
- Given a scenario, execute a provided deployment plan.
- Apply the change management process
 - Approvals
 - Scheduling
- Refer to documentation and follow standard operating procedures
- Execute workflow

- Configure automation and orchestration, where appropriate, for the system being deployed
- · Use commands and tools as needed
- Document results
- Given a scenario, analyze system requirements to determine if a given testing plan is appropriate.
 - Underlying environmental considerations included in the testing plan
 - Shared components
 - Storage
 - Compute
 - Network
 - Production vs. development vs. QA
 - Sizing

- Performance
- High availability
- Connectivity
- Data integrity
- Proper function
- Replication
- Load balancing
- Automation/orchestration

- Testing techniques
 - Vulnerability testing
 - Penetration testing
 - Load testing

- Given a scenario, analyze testing results to determine if the testing was successful in relation to given system requirements.
 - Consider success factor indicators of the testing environment
 - Sizing
 - Performance
 - Availability
 - Connectivity
 - Data integrity
 - Proper functionality

- Document results
- Baseline comparisons
- · SLA comparisons
- · Cloud performance fluctuation variables

- Given a scenario, analyze sizing, subnetting, and basic routing for a provided deployment of the virtual network.
 - Cloud deployment models
 - Public
 - Private
 - Hybrid
 - Community
 - Network components
 - Applicable port and protocol considerations when extending to the cloud
- Determine configuration for the applicable platform as it applies to the network
 - VPN
 - IDS/IPS
 - DMZ
 - VXLAN
 - Address space required

- Network segmentation and microsegmentation
- Determine if cloud resources are consistent with the SLA and/or change management requirements

- Given a scenario, analyze CPU and memory sizing for a provided deployment.
 - · Available vs. proposed resources
 - CPU
 - RAM
 - · Memory technologies
 - Bursting and ballooning
 - Overcommitment ratio
 - CPU technologies
 - Hyperthreading
 - VT-x
 - Overcommitment ratio

- Effect to HA/DR
- · Performance considerations
- Cost considerations
- · Energy savings
- Dedicated compute environment vs. shared compute environment



- Given a scenario, analyze the appropriate storage type and protection capability for a provided deployment.
 - Requested IOPS and read/ write throughput
 - Protection capabilities
 - High availability
 - Failover zones
 - Storage replication
 - Regional
 - Multiregional
 - Synchronous and asynchronous
 - Storage mirroring
 - Cloning
 - Redundancy level/factor

- · Storage types
 - NAS
 - DAS
 - SAN
 - Object storage
- · Access protocols
- · Management differences
- Provisioning model
 - Thick provisioned
 - Thin provisioned
 - Encryption requirements
 - Tokenization

- Storage technologies
 - Deduplication technologies
 - Compression technologies
- Storage tiers
- Overcommitting storage
- Security configurations for applicable platforms
 - ACLs
 - Obfuscation
 - Zoning
 - User/host authentication and authorization
- Given a scenario, analyze characteristics of the workload (storage, network, compute) to ensure a successful migration.
 - Migration types
 - P2V
 - V2V
 - V2P
 - P2P
 - Storage migrations
 - Online vs. offline migrations
- Source and destination format of the workload
 - Virtualization format
 - Application and data portability
- Network connections and data transfer methodologies
- Standard operating procedures for the workload migration

- · Environmental constraints
 - Bandwidth
 - Working hour restrictions
 - Downtime impact
 - Peak timeframes
 - Legal restrictions
 - Follow-the-sun constraints/time zones
- Given a scenario, apply elements required to extend the infrastructure into a given cloud solution.
 - · Identity management elements
 - Identification
 - Authentication
 - Authorization
 - Approvals
 - Access policy
 - Federation
 - Single sign-on
 - Appropriate protocols given requirements

- Element considerations to deploy infrastructure services such as:
 - DNS
 - DHCP
 - Certificate services
 - Local agents
 - Antivirus
 - Load balancer
 - Multifactor authentication
 - Firewall
 - IPS/IDS





·2.0 Security

- Given a scenario, apply security configurations and compliance controls to meet given cloud infrastructure requirements.
 - · Company security policies
 - Apply security standards for the selected platform
 - Compliance and audit requirements governing the environment
 - Laws and regulations as they apply to the data
 - · Encryption technologies
 - IPSec
 - SSL/TLS

- Other ciphers
- · Key and certificate management
 - PKI
- Tunneling protocols
 - L2TP
 - PPTP
 - GRE
- Implement automation and orchestration processes as applicable
- Appropriate configuration for the applicable platform as it applies to compute
 - Disabling unneeded ports and services
 - Account management policies
 - Host-based/software firewalls
 - Antivirus/anti-malware software
 - Patching
 - Deactivating default accounts
- Given a scenario, apply the appropriate ACL to the target objects to meet access requirements according to a security template.
 - · Authorization to objects in the cloud
 - Processes
 - Resources
 - Users
 - Groups
 - System
 - Compute
 - Networks

- Storage
- Services
- Effect of cloud service models on security implementations
- Effect of cloud deployment models on security implementations
- Access control methods
 - Role-based administration
 - Mandatory access controls
 - Discretionary access controls
 - Non-discretionary access controls
 - Multifactor authentication
 - Single sign-on
- Given a cloud service model, implement defined security technologies to meet given security requirements.
 - Data classification
 - Concepts of segmentation and microsegmentation
 - Network
 - Storage
 - Compute
 - · Use encryption as defined

- Use multifactor authentication as defined
- Apply defined audit/ compliance requirements



Given a cloud service model, apply the appropriate security automation technique to the target system.

- Tools
 - APIs
 - Vendor applications
 - CLI
 - Web GUI
 - Cloud portal
- Techniques
 - Orchestration
 - Scripting
 - Custom programming

- Security services
 - Firewall
 - Antivirus/anti-malware
 - IPS/IDS
 - HIPS
- Impact of security tools to systems and services
 - Scope of impact

- Impact of security automation techniques as they relate to the criticality of systems
 - Scope of impact





-3.0 Maintenance

- Given a cloud service model, determine the appropriate methodology to apply given patches.
 - · Scope of cloud elements to be patched
 - Hypervisors
 - Virtual machines
 - Virtual appliances
 - Networking components
 - Applications
 - Storage components
 - Clusters

- Patching methodologies and standard operating procedures
 - Production vs. development vs. QA
 - Rolling update
 - Blue-green deployment
 - Failover cluster

- Use order of operations as it pertains to elements that will be patched
- · Dependency considerations

- Given a scenario, apply the appropriate automation tools to update cloud elements.
 - Types of updates
 - Hotfix
 - Patch
 - Version update
 - Rollback
 - Automation workflow
 - Runbook management
 - Single node

- Orchestration
 - Multiple nodes
 - Multiple runbooks
- Activities to be performed by automation tools
 - Snapshot
 - Cloning
 - Patching

- Restarting
- Shut down
- Maintenance mode
- Enable/disable alerts

- Given a scenario, apply an appropriate backup or restore method.
 - Backup types
 - Snapshot/redirect-on-write
 - Clone
 - Full
 - Differential
 - Incremental
 - Change block/delta tracking

- Backup targets
 - Replicas
 - Local
 - Remote

- Other considerations
 - SLAs
 - Backup schedule
 - Configurations
- Objects
 - Dependencies
 - Online/offline





- Given a cloud-based scenario, apply appropriate disaster recovery methods.
 - · DR capabilities of a cloud service provider
 - Other considerations
 - SLAs for DR
 - RPO
 - RTO
 - Corporate guidelines

- Cloud service provider guidelines
- Bandwidth or ISP limitations
- Techniques
- Site mirroring
- Replication
- File transfer

- Archiving
- Third-party sites

- Given a cloud-based scenario, apply the appropriate steps to ensure business continuity.
 - · Business continuity plan
 - Alternate sites
 - Continuity of operations
 - Connectivity
 - Edge sites
 - Equipment
 - Availability
 - Partners/third parties
 - · SLAs for BCP and HA
- Given a scenario, apply the appropriate maintenance automation technique to the target objects.
 - Maintenance schedules
 - · Impact and scope of maintenance tasks
 - Impact and scope of maintenance automation techniques
 - · Include orchestration as appropriate
- · Maintenance automation tasks
 - Clearing logs
 - Archiving logs
 - Compressing drives
 - Removing inactive accounts
 - Removing stale DNS entries
 - Removing orphaned resources
 - Removing outdated rules from firewall
 - Removing outdated rules from security
 - Resource reclamation
 - Maintain ACLs for the target object





·4.0 Management

- Given a scenario, analyze defined metrics to determine the presence of an abnormality and/or forecast future needed cloud resources.
 - Monitoring
 - Target object baselines
 - Target object anomalies
 - Common alert methods/messaging
 - Alerting based on deviation from baseline
 - Event collection

- Event correlation
- · Forecasting resource capacity
 - Upsize/increase
 - Downsize/decrease
- · Policies in support of event collection
- Policies to communicate alerts appropriately
- Given a scenario, determine the appropriate allocation of cloud resources.
 - Resources needed based on cloud deployment models
 - Hybrid
 - Community
 - Public
 - Private
 - Capacity/elasticity of cloud environment
- Support agreements
 - Cloud service model maintenance responsibility
- · Configuration management tool
- · Resource balancing techniques
- Change management
 - Advisory board

- Approval process
- Document actions taken
- CMDB
- Spreadsheet
- Given a scenario, determine when to provision/deprovision cloud resources.
 - Usage patterns
 - Cloud bursting
 - Auto-scaling technology
 - · Cloud provider migrations
 - · Extending cloud scope
 - Application life cycle
 - Application deployment

- Application upgrade
- Application retirement
- Application replacement
- Application migration
- Application feature use
 - Increase/decrease

- · Business need change
 - Mergers/acquisitions/divestitures
 - Cloud service requirement changes
 - Impact of regulation and law changes





Given a scenario, implement account provisioning techniques in a cloud environment to meet security and policy requirements.

- Identification
- · Authentication methods
 - Federation
 - Single sign-on
- Authorization methods
 - ACLs
 - Permissions

- · Account life cycle
- Account management policy
 - Lockout
 - Password complexity rules
- Automation and orchestration activities
 - User account creation
 - Permission settings
 - Resource access

- User account removal
- User account disablement

- Given a scenario, analyze deployment results to confirm they meet the baseline.
 - · Procedures to confirm results
 - CPU usage
 - RAM usage
 - Storage utilization
 - Patch versions

- Network utilization
- Application version
- Auditing enable
- Management tool compliance
- Given a specific environment and related data (e.g., performance, capacity, trends), apply appropriate changes to meet expected criteria.
 - Analyze performance trends
 - · Refer to baselines
 - · Refer to SLAs
 - Tuning of cloud target objects
 - Compute
 - Network
 - Storage
 - Service/application resources
- Recommend changes to meet expected performance/capacity
 - Scale up/down (vertically)
 - Scale in/out (horizontally)

- Given SLA requirements, determine the appropriate metrics to report.
 - · Chargeback/showback models
 - Reporting based on company policies
 - Reporting based on SLAs
 - · Dashboard and reporting
 - Elasticity usage
 - Connectivity

- Latency
- Capacity
- Overall utilization
- Cost
- Incidents
- Health

- System availability
 - Uptime
 - Downtime





-5.0 Troubleshooting

- 5.1 Given a scenario, troubleshoot a deployment issue.
 - Common issues in the deployments
 - Breakdowns in the workflow
 - Integration issues related to different cloud platforms
- Resource contention
- Connectivity issues
- Cloud service provider outage
- Licensing issues

- Template misconfiguration
- Time synchronization issues
- Language support
- Automation issues
- 5.2 Given a scenario, troubleshoot common capacity issues.
 - · Exceeded cloud capacity boundaries
 - Compute
 - Storage
 - Networking
 - IP address limitations
 - Bandwidth limitations

- Licensing
- Variance in number of users
- API request limit
- Batch job scheduling issues
- · Deviation from original baseline
- Unplanned expansions

- Given a scenario, troubleshoot automation/orchestration issues.
 - · Breakdowns in the workflow
 - Account mismatch issues
 - Change management failure
 - Server name changes
 - IP address changes

- Location changes
- Version/feature mismatch
- Automation tool incompatibility
- Job validation issue
- Given a scenario, troubleshoot connectivity issues.
 - · Common networking issues
 - Incorrect subnet
 - Incorrect IP address
 - Incorrect gateway
 - Incorrect routing
 - DNS errors
 - QoS issues
 - Misconfigured VLAN or VXLAN
 - Misconfigured firewall rule

- Insufficient bandwidth
- Latency
- Misconfigured MTU/MSS
- Misconfigured proxy
- Network tool outputs
- Network connectivity tools
 - ping
 - tracert/traceroute
 - telnet

- netstat
- nslookup/dig
- ipconfig/ifconfig
- route
- arp
- ssh
- tcpdump
- Remote access tools for troubleshooting





Given a scenario, troubleshoot security issues.

- Authentication issues
 - Account lockout/expiration
- Authorization issues
- · Federation and single sign-on issues
- Certificate expiration
- Certification misconfiguration
- External attacks

- Internal attacks
- Privilege escalation
- · Internal role change
- · External role change
- · Security device failure
- Incorrect hardening settings
- · Unencrypted communication

- · Unauthorized physical access
- · Unencrypted data
- · Weak or obsolete security technologies
- Insufficient security controls and processes
- Tunneling or encryption issues

Given a scenario, explain the troubleshooting methodology.

- Always consider corporate policies, procedures and impacts before implementing changes
- 1. Identify the problem
 - Question the user and identify user changes to computer and perform backups before making changes
- 2. Establish a theory of probable cause (question the obvious)
 - If necessary, conduct internal or external research based on symptoms
- 3. Test the theory to determine cause
 - Once theory is confirmed, determine the next steps to resolve the problem
 - If the theory is not confirmed, reestablish a new theory or escalate
- Establish a plan of action to resolve the problem and implement the solution
- Verify full system functionality and, if applicable, implement preventive measures
- 6. Document findings, actions and outcomes



CompTIA Cloud+ Acronyms

The following is a list of acronyms that appear on the CompTIA Cloud+ exam. Candidates are encouraged to review the complete list and attain a working knowledge of all listed acronyms as part of a comprehensive exam preparation program.

ACRONYM	SPELLED OUT	ACRONYM	SPELLED OUT
AAA	Authentication, Authorization, and Accounting	DaaS	Desktop as a Service
ACL	Access Control List	DAC	Discretionary Access Control
AES	Advanced Encryption Standard	DAS	Direct Attached Storage
API	Application Programming Interface	DBA	Database Administrator
APM	Application Performance Monitor	DBaaS	Database as a Service
ARP	Address Resolution Protocol	DBMS	Database Management Server
BCP	Business Continuity Plan	DES	Data Encryption Standard
BGP	Border Gateway Protocol	DFS	Distributed File System
BIA	Business Impact Analysis	DHCP	Dynamic Host Configuration Protocol
BLOB	Binary Large Object	DIMM	Dual In-line Memory Module
BMR	Bare Metal Restore	DLP	Data Loss Prevention
BPaaS	Business Process as a Service	DMZ	Demilitarized Zone
CAB	Change Advisory Board	DNS	Domain Name Service
CaaS	Communication as a Service/	DR	Disaster Recovery
	Computing as a Service	DRaaS	Disaster Recovery as a Service
CapEx	Capital Expenditures	DRP	Disaster Recovery Plan
CAS	Content Addressed Storage	DSA	Distributed Services Architecture
CASB	Cloud Access Security Broker	ECAB	Emergency Change Advisory Board
CI/CD	Continuous Integration/Continuous Deployment	ECC	Elliptic Curve Cryptography
CIFS	Common Internet File System	FAT	File Allocation Table
CIIS	Client Integration Implementation Service	FC	Fibre Channel
CLI	Command Line Interface	FCIP	Fibre Channel over IP
CMDB	Configuration Management Database	FCoE	Fibre Channel over Ethernet
CM	Configuration Management	FIM	File Integrity Monitoring
CMP	Cloud Management Platform	FTP	File Transfer Protocol
CMS	Content Management System	FTPS	FTP over SSL
CNA-	Converged Network Adapter	GPT	GUID Partition Table
CNAME	Canonical Name	GPU	Graphics Processing Unit
COLO	Co-location Co-location	GRE	Generic Routing Encapsulation
COOP	Continuity of Operations Plan	GUI	Graphical User Interface
CPU	Central Processing Unit	HA	High Availability
CRL	Certificate Revocation List	HBA	Host Bus Adapter
CRM	Customer Relationship Management	HDFS	Hadoop Distributed File System
CSA	Cloud Systems Administrator	HIPS	Host Intrusion Prevention System
CSP	Cloud Service Provider	HTTPS	Hypertext Transfer Protocol Secure



ACRONYM	SPELLED OUT	ACRONYM	SPELLED OUT
IaaS	Infrastructure as a Service	NTP	Network Time Protocol
IAM	Identity and Access Management	NVMe	Non-Volatile Memory Express
ICMP	Internet Control Management Protocol	ODBC	Open Database Connectivity
IDP	Intrusion Detection and Prevention	OLA	Operational Level Agreement
IDS	Intrusion Detection System	OpEx	Operating Expenditure
IFCP	Internet Fibre Channel Protocol	OS	Operating System
IGRP	Interior Gateway Routing Protocol	OSPF	Open Shortest Path First
IOPS	Input/output Operations Per Second	OVA	Open Virtual Appliance
IPC	Instructions Per Cycle	OVF	Open Virtualization Format
IPMI	Intelligent Platform Management Interface	P2P	Physical to Physical
IPS	Intrusion Protection System	P ₂ V	Physical to Virtual
IPSec	Internet Protocol Security	PaaS	Platform as a Service
IQN	Initiator Qualified Name	PAC	Proxy Automatic Configuration
IRM	Information Rights Management	PAM	Pluggable Authentication Modules
ISP	Internet Service Provider	PAT	Port Address Translation
iSCSI	Internet Small Computer Systems Interface	PBX	Private (or Public) Branch Exchange
ISNS	Internet Storage Name Service	PCI	Payment Card Industry
ITIL	Information Technology Infrastructure Library	PCS	Private Cloud Space
JBOD	Just a Bunch of Disks	PII	Personally Identifiable Information
JSON	JavaScript Object Notation	PIT	Point-in-Time
KMS	Key Management System	PKI	Public Key Infrastructure
KVM	Keyboard Video Mouse	PSK	Pre-Shared Key
L2TP	Layer 2 Tunneling Protocol	QA	Quality Assurance
LAN	Local Area Network	QoS	Quality of Service
LDAP	Lightweight Directory Access Protocol	RAID	Redundant Array of Inexpensive Disks
LUN	Logical Unit Number	RBAC	Role-Based Access Control
MAC	Mandatory Access Control	RC5	Rivest Cipher 5
MBR	Master Boot Record	RDP	Remote Desktop Protocol
MDF	Main Distribution Facility	ReFS	Resilient File System
MFA	Multifactor Authentication	RIP	Routing Information Protocol
MPIO	Multipath Input/Output	RPO	Recovery Point Objective
MPLS	Multiprotocol Label Switching	RTO	Recovery Time Objective
MSP	Managed Service Provider	SaaS	Software as a Service
MTBF	Mean Time Between Failure	SAML	Security Assertions Markup Language
MTTF	Mean Time To Failure	SAN	Storage Area Network
MTTR	Mean Time To Recovery	SAS	Serial Attached SCSI
MTU	Maximum Transmission Unit	SATA	Serial Advanced Technology Attachment
NAC	Network Access Control	SCP	Session Control Protocol
NAS	Network Attached Storage	SCSI	Small Computer System Interface
NAT	Network Address Translation	SDLC	Software Development Life Cycle
NFS	Network File System	SDN	Software Defined Network
NFV	Network Function Virtualization	SED	Self-Encrypting Drive
NIC	Network Interface Controller	SFTP	Secure FTP
NIS	Network Information Service	SHA	Secure Hash Algorithm
NOC	Network Operations Center	SIEM	Security Incident Event Manager
NPIV	N_Port ID Virtualization	SIP	Session Initiation Protocol
NTFS	New Technology File System	SLA	Service Level Agreement
NTLM	NT LAN Manager	SMB	Server Message Block



ACRONYM SPELLED OUT

SNMP Simple Network Management Protocol

SOP Standard Operating Procedure

SSD Solid State Disk
SSH Secure Shell

SSL Secure Sockets Layer
SSO Single Sign-On

TCO Total Cost of Operations
TCP Transmission Control Protocol
TKIP Temporal Key Integrity Protocol
TLS Transport Layer Security
TPM Trusted Platform Module
TTD Technical Training Device

TTL Time To Live

UAT User Acceptance Testing
UDP Universal Datagram Protocol
UPS Universal Power Supply
UTA Universal Target Adapter
V2P Virtual to Physical
V2V Virtual to Virtual
VAT Virtual Allocation Table

VCPU Virtual CPU

VDI Virtual Desktop Infrastructure

VHD Virtual Hard Disk
VLAN Virtual LAN
VM Virtual Machine
VMDK Virtual Machine Disk
VMFS Virtual Machine File System
VNC Virtual Network Computing

VNIC Virtual NIC
VoIP Voice over IP

VPC Virtual Private Cloud VPN Virtual Private Network

VRAM Virtual RAM

VRF Virtual Routing and Forwarding
VRR Vulnerability Remediation Request

VSAN Virtual SAN
vSwitch Virtual Switch
VTL Virtual Tape Library

VXLAN Virtual Extensible Local Area Network

WAF Web Application Firewall
WAN Wide Area Network

WMI Windows Management Implementation

WWNN World Wide Node Name
WWPN World Wide Port Name
WWUI World Wide Unique Identifier

XaaS Anything as a Service

ZFS Z File System



Cloud+ Proposed Hardware and Software List

CompTIA has included this sample list of hardware and software to assist candidates as they prepare for the Cloud+ exam. This list may also be helpful for training companies that wish to create a lab component for their training offering. The bulleted lists below each topic are sample lists and not exhaustive.

EQUIPMENT

- Hyperconverged infrastructure or system
 - Shared storage/hard drives
 - SAN switches
 - Backup service
 - Replication to cloud services
 - Virtual firewall
 - Compute (CPU, RAM, etc.)
- Switch for client PCs
- Router
- · Access to SaaS, PaaS, IaaS environments
- Client PCs (laptops/desktops)

SPARE PARTS/HARDWARE

- · Keyboard, mouse, monitors
- Cat 6

SOFTWARE

- Automation tools
- Hypervisor (Type 1, Type 2)
- · Client and server OS
- Various Internet browsers
- Hypervisor management software
- Cloud management software
- · Database software
- Network management software

OTHER

- Internet access
- Remote access to cloud service providers (free services)
- Administrative tools (Admin pack)
- Self-service provisioning portal

