118699 Cloud Administrator
EISA Mock Exam Memo
PRACTICAL

Cloud Administration Practical Exam Rubric	VM created with exact specs (1 vCPU, 2GB RAM, 15GB disk); network in Bridged Mode; instance running; all evidence clear.	VM created but with minor spec deviations; network active; evidence provided but slightly unclear.	Failed to meet hardware specs or network requirements; insufficient evidence of running state.
	Static IP (10.0.0.50 or 192.168.x.50) correctly set; Nginx/Lighttpd running and accessible via browser.	Static IP set but in wrong subnet; web server running but browser verification missing.	Networking remains dynamic; web server not installed or failing to serve pages.
Total Marks: 30 | Focus: VM Deployment, Networking, and Storage	8GB disk added, partitioned, formatted as ext4, and permanently mounted to /var/traffic_logs.	Disk added and mounted, but missing permanent configuration or incorrect filesystem type.	Secondary disk not detected or mounted to the wrong directory.
	camera_bot user created; cam_feed_01.log exists in the new mount with correct ownership/permissions.	Log file created but in the root partition; user created but permissions are incorrect.	Failed to create system user or generate test log files.
Task	**Exemplary (Full Marks)**	**Proficient**	**Beginning**
1.1.1 System Setup (8 Marks)	**VM created with exact specs (1 vCPU, 2GB RAM, 15GB disk); network in Bridged Mode; instance running; all evidence clear.**	**VM created but with minor spec deviations; network active; evidence provided but slightly unclear.**	**Failed to meet hardware specs or network requirements; insufficient evidence of running state.**
1.1.2 Connectivity (8 Marks)	**Static IP (10.0.0.50 or 192.168.x.50) correctly set; Nginx/Lighttpd running and accessible via browser.**	**Static IP set but in wrong subnet; web server running but browser verification missing.**	**Networking remains dynamic; web server not installed or failing to serve pages.**
1.1.3 Storage (8 Marks)	**8GB disk added, partitioned, formatted as ext4, and permanently mounted to /var/traffic_logs.**	**Disk added and mounted, but missing permanent configuration or incorrect filesystem type.**	**Secondary disk not detected or mounted to the wrong directory.**
1.1.4 Testing (6 Marks)	**camera_bot user created; cam_feed_01.log exists in the new mount with correct ownership/permissions.**	**Log file created but in the root partition; user created but permissions are incorrect.**	**Failed to create system user or generate test log files.**
Scenario 2: The Gaming Tournament			

(Maintenance & Monitoring)			
Total Marks: 30 | Focus: Performance Diagnosis and Resource Scaling			
Task	**Exemplary (Full Marks)**	**Proficient**	**Beginning**
2.1.1 Monitoring (10 Marks)	**Stress successfully generated; bottleneck correctly identified using tools like htop or iostat (>90% load shown).**	**System stress attempted but load is low; tool used but bottleneck identification is vague.**	**Monitoring tool used incorrectly; no evidence of high resource utilization captured.**
2.2.2 Maintenance (8 Marks)	**OS update check performed; specifically identified kernel or security patches; detailed documentation provided.**	**General update check performed but failed to highlight critical security or kernel packages.**	**Failed to check for updates or provide a list of upgradable packages.**
2.2.3 Storage Expansion (12 Marks)	**Sequential evidence showing 12GB (Before) -> Resize in Hypervisor -> Resize in OS -> 25GB (After) with no data loss.**	**Disk resized in hypervisor but student struggled to expand the partition/filesystem within the OS.**	**No "Before" documentation; failed to expand filesystem; evidence is non-sequential or missing.**
Scenario 3: The Law Firm (Security & Compliance)			
Total Marks: 30 | Focus: Hardening, Vulnerability Research, and Firewalls			
Task	**Exemplary (Full Marks)**	**Proficient**	**Beginning**
3.1.1 Access Control (8 Marks)	**Permissions explicitly changed from 755 to 700; verified that only root has access; before/after evidence clear.**	**Permissions changed but not to the exact 700 requirement; evidence only shows final state.**	**Directory permissions remain insecure (others still have read/execute access).**

3.1.2 Vulnerability (7 Marks)	Correctly identified ProFTPD 1.3.3c Backdoor; cited CVE ID and severity from an appropriate database.	Identified a vulnerability for ProFTPD but not the specific version-related exploit.	Search results are irrelevant or for the wrong software version.
3.1.3 Remediation (7 Marks)	Professional memo includes risk description, 24-hour action, long-term fix, and verification steps.	Remediation plan provided but lacks professional formatting or misses long-term recommendations.	Memo is incomplete or provides technically unsound security advice.
3.1.4 Port Hardening (8 Marks)	Port 21 correctly identified and blocked via firewall; SSH (Port 22) remains active; rule verified via status command.	Port 21 blocked but student inadvertently blocked SSH access or failed to verify the rule.	Wrong port identified; firewall remains inactive or open to the internet.
General Submission & Professionalism (Deduction Criteria)			
File Naming: Files must follow the [StudentID]_Scenario_Task convention.			
Screenshot Quality: Must include timestamps, visible usernames, and full command prompts.			
Cloud Hygiene: Failure to terminate resources after the exam may result in administrative penalties.			