User report - Mosab Fathy Ramadan Mohamed

Grade item	Calculated weight	Grade	Range	Percentage	Feedback	Contribution to course total
[F22] System and Network Administration						
Final Grades						
Projected Grade (Mid semester)	-	A	0–100	99.22 %		-
Course grade	-	A (98.68)	0–100	98.68 %		-
Retake 1	-	-	0–100	-		-
Retake 2	-	-	0–100	-		-
Exam	-	-	0–20	-		-

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Lab 1: Introduction to Linux - part 1	-	✔ 9.80	0–10	98.00 %	1. Ok 1 2. Ok 1 3. Don't get it mixed up. /root is the root user home directory, while / is the root directory. 0.3 4. Ok 2 5. Ok 1.5 6. Ok 1 7. Ok 0.5 8. Ok 0.5 9. Ok 1 10. Ok 1 Total = 9.8 Additional comments:	-
Final project	-	39.00	0–40	97.50 %	Report - 25 Demo - 14 Total - 39	-

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Lab 2: OS main components	-	✔ A	0–10	100.00 %	1.1 - 0.6 1.2 - 0.6 1.3 - 0.6 1.4 - 1 1.5 - 0.6 1.6 - 1 2.1 - 0.6 2.2 - 0.6 2.3 - 0.6 3.1 - 0.6 3.2 - 0.6 3.3 - 0.6 3.4 - 0.6 3.5 - 0.8 3.6 - 0.6 Total = 10. Additional comments: Good report.	-
Lab 3: Command line and file manipulation	-	✔ A	0–10	100.00 %	1 - 1 2 - 1 3 - 1 4 - 1 5 - 2 6 >/dev/null - 0.7 7 - 1 8 - 1 9 - 1 Bonus 10 - 1 Bonus 11 - Total = 10.7 Real total :)= 10 Additional comments:	-

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Lab 4: Text filtering editors	-	✔ A	0–10	100.00 %	1 - 1.5 2 - 1 3 - 1 4 - 1 5. Matching the expected lines - 2 Validating date - 0.5 Validating time - 0.5 Capturing wazuh-remoted - 0.5 Capturing message type (INFO, ERROR, etc) - 0.5 Capturing string between message type and IP address - 0.5 Validating IP address: Your regex will match an invalid IP address. For example consider 999.999.999.1006 - 0.5 Bonus - 2 Total = 11.5 Additional comments: For task 5, consider ```grep -P "^\d{4}/\d{2}/\d{2} \d{2}:\d{2}:\d{2} wazuh-remoted: (INFO|ERROR|WARNING): Remote syslog (allowed|blocked|not parsed) from: \'((25[0-5]|(2[0-4]|1\d|[1-9]|)\d)\.?\b){4}\/\d{1,2}\'$" server-data.log```	-
Lab 5: Bash scripting	-	✔ A	0–10	100.00 %	"1.1 Login username - 0.5 1.2 Home directory - 0.5 1.3 Shell - 1 1.4 Hostname - 0.5 1.5 IP address - 1 2.1 Compressing files - 1 2.2 Permissions preserved - 1 2.3 Backup destination directory specified - 1 2.4 Check for destination directory's existence - 0.5 2.5 Backup file name format - 1 3. Ok - 1 Report including screenshots - 1 Total = 10 Additional comments: "	-

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Lab 6: Bash scripting 2	-	✔ A	0–10	100.00 %	"1.1 Two menu items with submenu - 1 1.1 OS kernel name - 1.5 1.2 System architecture - 1 1.3 Logged in user's date, time, and command line - 1.5 1.4 Verify EFI - 1.5 1.5 Connected block devices - 1.5 1.5 Bonus: Identify GPT partition - 1.6 List first boot device on system - 1.5 Bonus: Use at least three functions - 0.5 Report - 0.5 Total = 10.5 Additional comments: "	-
Lab 7: Processes and signals	-	✔ A	0–10	95.00 %	"1. Zombie processes description - 1 2. Differences between kill, killall, and pkill - 1 3. Annotate output from top command - 1 4.1 Locate and kill process - 1.5 4.2 Display status message - 0.5 4.3 Points for regex - 0.5 5.1 Script that loops infinitely - 0.5 5.2 Scripts receives SIGUSR1 and runs as expected - 1 6.1 Script extracts CPU, memory and disk usage - 1.5 6.2 One line of log: The output will be written in multiple lines. They should be concatenated into one line instead - 0 6.3 Logs saved to specified file - 0.5 6.4 Descriptive information - 0.5 Total = 9.5 Additional comments: "	-

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Lab 8: Scheduling tasks	-	✔ A	0–10	100.00 %	"1.1 Cron job to backup directories with files inside - 1.5 1.2 Anacron job to backup directories with files inside - 1.5 2.1 Nginx installed - 0.5 2.2 Backup at midnight every Sunday - 1 2.3 Delete old backup - 1 3.1 /bin/bash configured - 0.5 3.2 Five minutes after midnight - 1 3.3 10:00 on weekdays - 1 3.4 04:00 every Monday - 1 3.5 Second saturday every month - 1 4. Bonus - Total = 10 Additional comments: "	-
Lab 9: Systemd	-	✔ A	0–10	100.00 %	"1.1 Boot-up performance statistics - 0.5 1.2 SVG image - 0.5 2.1 Accurate trace with explanation - 1.5 2.2 Wanted units - 1 3.1 Web server showing all required information - 1.5 3.2 CPU and memory limits enforced on the service - 1 3.3 Configured to restart on failure - 0.5 3.4 Bash script, service file, and slice file created - 1 3.5 Enabled to run after reboot - 0.5 4 Updating package manager 5 minutes after booting and everyday after that - 1.5 5 Bonus: - 1.5 Total = 11 Additional comments: "	-

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Lab 10: Logging and auditing	-	✔ A	0–10	100.00 %	1 Security monitoring tool - 1 2.1 Create new rsyslog configuration file - 1 2.2 Rule to alert >= priority alerts - 1 2.3 Rule tested with logger - 0.5 2.4 Verify logs from rsyslog and journald - 0.5 3.1 Install Apache and configure logrotate to rotate logs every 6 hours - 1.5 3.2 Manually execute logrotate to test - 0.5 4.1 Bash script to continuously monitor auth.log for authentication failure - 2 4.2 Test result - 0.5 5.1 How to log all commands executed by every user on Linux systems: You found a good way to do this, but it's difficult to scale. Consider something like auditd - 0.5 5.2 Configure tool and generate logs - 1 6. Bonus: Not complete but on track - 1 Total = 11 Additional comments:	-

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Lab 11: System time and Package managers	-	✔ A	0–10	100.00 %	1 Sync NTP server without internet, but with accuracy - 1.5 2 Sync two Linux servers with each other - 1.5 3 Differences between apt and apt-get - 1 4 Why should System Administrators prefer apt upgrade over apt full-upgrade? - 1 5 Install a package from a repository - 1.5 6.1 Presence of /var/helloworld/helloworld.py in the right directory - 1 6.2 Presence of helloworld bash script that executes helloworld.py - 1 6.3 helloworld added to one of the bin/ directories - 0.5 6.4 Ubuntu package created - 0.5 6.5 Install the package and show artifacts added to your system - 0.5 Bonus 1: Install RPM package - 1 Bonus 2: Create RPM package - Total = 11 Additional comments:	-

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Lab 12: Docker	-	✔ A	0–10	100.00 %	1. ENTRYPOINT VS CMD - 1 2. Five security precautions for deploying Docker resources - 1.5 3. Single line command to remove all exited containers - 1 4. Copy files to a running container - 0.5 5.1 nginx base image or a minimal image used - 1 5.2 Index page on host machine and mounted to the container - 1 5.3 Steps and test results shown - 1 6.1 Configure rsyslog as a central logging server - 1 6.2 Container configured to forward logs to central logging server - 1 6.3 Test results shown: No test results shown - 0.5 Bonus 1: Dockerize an open source app - Bonus 2: Fix problems in a Dockerfile - 1 Total = 10.5 Additional comments:	-
Lab 13: Git and GitLab CI/CD	-	✔ A	0–10	100.00 %	1. Configure Git to connect GitLab via SSH - 1 2. Squash commit - 0.5 3. Git rebase vs Git merge - 1 4.1 New feature branch created - 0.5 4.2 Make the required commits - 0.5 4.3 Remove the first commit - 1 4.4 Rebase the testbranch against main - 1 4.5 Merge testbranch and show commit history - 1 5.1 Create Dockerized app - 1 5.2 Create pipeline with the required stages - 2.5 Total = 10 Additional comments:	-
Retake	-	-	0–10	-		-

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Course total Include empty grades.	-	-	0–100	-		-

Info

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