#### Saeed Rafee Security Control Synopsis

#### **Objective:**

This project presents my hands-on evaluation of 10 essential security controls implemented in a LAMP stack environment. Each control is based on established frameworks such as CIS Benchmarks, STIGs, and OWASP guidelines. The report outlines how I verified compliance, identified non-compliant configurations, and applied remediations where necessary. Screenshots and clear explanations are included to guide the reader through the full compliance and hardening process.

# **Security Control (1 of 10)**

	· · · · · · · · · · · · · · · · · · ·
Analyst Name:	Saeed Rafee
Control Source:	CIS - Ubuntu 22
Security Control ID:	2.4
Control/Rule Title:	Ensure nonessential services are removed or masked (Manual)
Checked Using:	Isof -i -P -n   grep -v "(ESTABLISHED)"
Fix/Remediation:	No fix needed
Additional Steps Required for Compliance:	Compliant! The only service identified as running on the system is Firefox, which is essential for the system's functionality. Firefox is operating on port 53583 using the UDP protocol.
Comments:	Can be found on page 278 of the CIS - Ubuntu 22 document.
Screen Shots:	Control & Month (Month) (Month

### **Security Control (2 of 10)**

Analyst Name:	Saeed Rafee
Control Source:	CIS MariaDB
Security Control ID:	5.2
Control/Rule Title:	Ensure 'FILE' is Not Granted to Non-Administrative Users (Manual)
Checked Using:	Execute the following SQL statement to audit this setting:  SELECT GRANTEE FROM INFORMATION_SCHEMA.USER_PRIVILEGES WHERE PRIVILEGE_TYPE = 'FILE';
Fix/Remediation:	No fix needed.
Additional Steps Required for Compliance:	No additional steps needed, file is not granted to non-admin users.
Comments:	We seem to be compliant with this security control, our file is only granted to administrative users as shown below. Also this security control can be found on page 111.
Screen Shots:	Anthorise Columnical Columnical Columnical Columnical April 2009  Anthorise Columnical C

	-
_	

# **Security Control (3 of 10)**

Analyst Name:	Saeed Rafee
Control Source:	CIS MARIADB
	5.6
Security Control ID:	3.6
Control/Rule Title:	Ensure 'CREATE USER' is Not Granted to Non-Administrative Users (Manual)
Checked Using:	SELECT GRANTEE FROM INFORMATION_SCHEMA.USER_PRIVILEGES WHERE PRIVILEGE_TYPE = 'CREATE USER';
Fix/Remediation:	No fix needed.
Additional Steps Required for Compliance:	Create user is not granted for non-admins.
Comments:	We are compliant with this security control, no further steps needed for compliance.
Screen Shots:	Manufaction in Victoria Theorem   Control Victoria Vict

### **Security Control (4 of 10)**

Analyst Name:	Saeed Rafee
Control Source:	STIG - Ubuntu 20
Security Control ID:	SV-238196r653763_rule
Control/Rule Title:	The Ubuntu operating system must provision temporary user accounts with an expiration time of 72 hours or less.
Checked Using:	\$ sudo chage -l system_account_name   grep expires
Fix/Remediation:	\$ sudo chage -E \$(date -d "+3 days" +%F) system_account_name
Additional Steps Required for Compliance:	I ran \$ sudo chage -E \$(date -d "+3 days" +%F) system_account_name then checked if we were complaint with the checked using.
Comments:	NOT compliant! See fix/remediation for fix.
Screen Shots:	The Relation Of Chart of Virtualization (Planting States of States

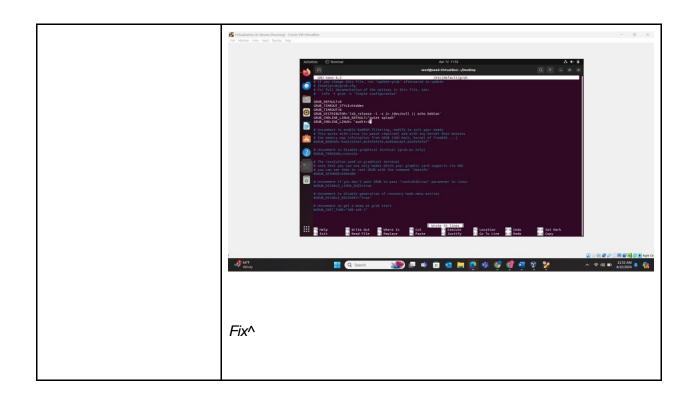
### **Security Control (5 of 10)**

Analyst Name:	Saeed Rafee
Control Source:	STIG - Ubuntu 20
Security Control ID:	V-251504
Control/Rule Title:	The Ubuntu operating system must not allow accounts configured with blank or null passwords.
Checked Using:	\$ grep nullok /etc/pam.d/common-password
Fix/Remediation:	Remove any instances of the "nullok" option in "/etc/pam.d/common-password" to prevent logons with empty passwords.
Additional Steps Required for Compliance:	/etc/pam.d/common-password command then remove nullok, to prevent null passwords log in.
Comments:	Not compliant, I tried to remove nullok but I was denied permission.
Screen Shots:	Company   Comp

T	

## **Security Control (6 of 10)**

Analyst Name:	Saeed Rafee
Control Source:	STIG - Ubuntu 20
Security Control ID:	V-238299
Control/Rule Title:	The Ubuntu operating system must initiate session audits at system start-up.
Checked Using:	sudo grep "^\s*linux" /boot/grub/grub.cfg linux /boot/vmlinuz- 5.4.0-31-generic root=UUID=74d13bcd-6ebd-4493-b5d2- 3ebc37d01702 ro audit=1 linux /boot/vmlinuz-5.4.0-31-generic root=UUID=74d13bcd-6ebd-4493-b5d2-3ebc37d01702 ro recovery nomodeset audit=1
	Then to update the grub config file run: \$ sudo update-grub
Fix/Remediation:	Edit the "/etc/default/grub" file and add "audit=1" to the "GRUB_CMDLINE_LINUX" option.
Additional Steps Required for Compliance:	If any linux lines do not contain "audit=1", this is a finding. We're not compliant. As shown in the screenshot below.
Comments:	Not compliant see fix for further steps.
Screen Shots:	Windows the part Process Rep.  Activities   The annual   April 1143   Activities   The annual   The annual

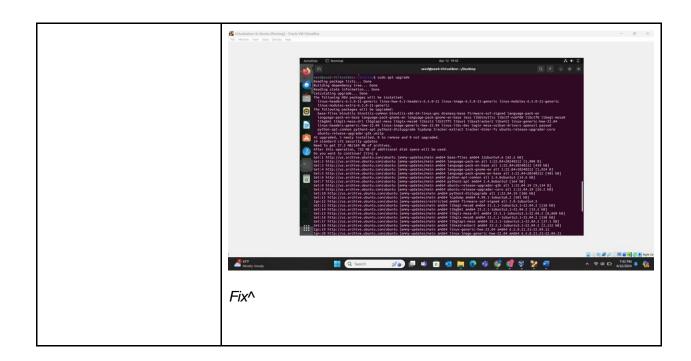


# **Security Control (7 of 10)**

A	, 
Analyst Name:	Saeed Rafee
Control Source:	STIG - Ubuntu 20
Security Control ID:	V-238199 R
Control/Rule Title:	The Ubuntu operating system must retain a user's session lock until that user reestablishes access using established identification and authentication procedures.
Checked Using:	sudo gsettings get org.gnome.desktop.screensaver lock-enabled you're compliant if the output is true.
Fix/Remediation:	No fix needed.
Additional Steps Required for Compliance:	Output was true so no need for further steps.
Comments:	We're compliant with this control.
Screen Shots:	The content A Morting Browning Character Services (Services of Character Services of Cha

## **Security Control (8 of 10)**

Analyst Name:	Saeed Rafee
Control Source:	STIG - MariaDB
Security Control ID:	1.9
Control/Rule Title:	Ensure updates, patches, and additional security software are installed (Manual)
Checked Using:	apt -s upgrade
Fix/Remediation:	apt upgrade enter sudo if needed or denied
Additional Steps Required for Compliance:	See fix for further steps.
Comments:	Not compliant updates need to be installed.
Screen Shots:	A 4 0 0 x 10 total November 10



# **Security Control (9 of 10)**

Analyst Name:	Saeed Rafee
Control Source:	CIS - Ubuntu 22
Security Control ID:	3.5.1.1
Control/Rule Title:	Ensure ufw is installed.
Checked Using:	dpkg-query -W -f='\${binary:Package}\t\${Status}\t\${db:Status- Status}\n' uf
Fix/Remediation:	No fix needed.
Additional Steps Required for Compliance:	UFW is installed.
Comments:	We're compliant with this security control.
Screen Shots:	Control   Married   Control   Cont

### **Security Control (10 of 10)**

Analyst Name:	Saeed Rafee
Control Source:	OWASP testing guide
Security Control ID:	OTG-CLIENT-004
Control/Rule Title:	Testing for Client Side URL Redirect
Checked Using:	URL
Fix/Remediation:	Educate developers on secure coding practices to prevent the introduction of Client Side URL Redirect vulnerabilities in future development efforts.
Additional Steps Required for Compliance:	For our yoga application, the URL can be similar like in a typo squatting event to make the URL seem alike but redirect to a malicious page.
Comments:	Client Side URL Redirect vulnerabilities can be exploited by attackers to conduct phishing attacks.
Screen Shots:	The financian of blands (Browney) Charle VM blands  As follow there have been finance in the control of the finance of the control of the con