

Team,

I have provided a bash script for Linux that can perform the following:

- Audit/view existing rules in UFW
- Allow a port number with UFW
- Deny a port number with UFW
- Delete an existing rule from UFW
- Create a backup of UFW's files
- Restore UFW from an existing backup
- Create a backup of iptables
- Restore iptables from an existing backup

All mentioned actions can be performed quickly and easily using the script.

To run the script, use the command `sudo bash linux_firewall_audit.sh`. Make sure that you run the script with `sudo`.

A menu will appear asking you to select an option. Enter the number that corresponds to the option you want to use.

View existing rules in UFW: Select option 1. A list of all rules created in UFW will be displayed.

Allow a port number: Select option 2. Enter the port number you want to allow, and the port will be allowed for IPv4 and IPv6.

Deny a port number: Select option 3. Enter the port number you want to deny, and the port will be denied for IPv4 and IPv6.

Delete a rule from UFW: Select option 4. Enter the rule number you want to delete, and that rule will be deleted.

Create a backup of UFW: Select option 5. A backup of the following files is created:

- `/etc/default/ufw` → `default_ufw_bak`
- `/etc/ufw/user.rules` → `user_rules_bak`
- `/etc/ufw/user6.rules` → `user6_rules_bak`
- `/lib/ufw/ufw-init` → `ufw-init_bak`

All files are saved in the same working directory as the bash script.

Restore UFW from a backup: Ensure that your backup files are in the same working directory as the bash script. Select option 6. UFW will be restored using the backup files created in option 5.

Create a backup of iptables: Select option 7. A backup of iptables is created as `iptables_bak` in the same working directory as the bash script.

Restore iptables from a backup: Ensure that your backup files are in the same working directory as the bash script. Select option 8. iptables will be restored using the backup files created in option 7.

Thank you,
Tim Koehler