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Thread: [Harden Termux Without Root](#)

Clumsy - October 4, 2023, 2:40 pm

Code #!/bin/bash

Update and upgrade packages

pkg update -y

pkg upgrade -y

Install essential packages

pkg install -y git openssh openssl termux-api

Configure SSH

ssh-keygen -t rsa -b 4096 -f ~/.ssh/id_rsa

echo "PermitRootLogin no" >> \$PREFIX/etc/ssh/sshd_config

echo "PasswordAuthentication no" >> \$PREFIX/etc/ssh/sshd_config

sshd

Set up firewall rules

ufw enable

ufw default deny incoming

ufw default allow outgoing

ufw allow ssh

Install and set up a VPN

pkg install -y openvpn easy-rsa

mkdir -p ~/openvpn

cd ~/openvpn

cp -r \$PREFIX/share/easy-rsa/* .

chmod 700 ~/openvpn

cd ~/openvpn/easyrsa3

./easyrsa init-pki

./easyrsa build-ca

./easyrsa gen-req server nopass

./easyrsa sign-req server server

./easyrsa gen-dh

openvpn --genkey --secret ta.key

cp pki/ca.crt pki/private/server.key pki/issued/server.crt pki/dh.pem ta.key \$HOME/openvpn

Enable SELinux

setenforce 1

Install and configure a firewall

pkg install -y iptables

iptables -P INPUT DROP

iptables -P FORWARD DROP

iptables -P OUTPUT ACCEPT

iptables -A INPUT -i lo -j ACCEPT

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iptables -A INPUT -m state --state RELATED,ESTABLISHED -j ACCEPT
iptables -A INPUT -p tcp --dport 22 -j ACCEPT
iptables -A INPUT -p icmp --icmp-type echo-request -j ACCEPT
iptables -A INPUT -j DROP
```

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# Disable unnecessary services
# (Note: Some services may not be available in Termux)
# systemctl disable bluetooth.service
# systemctl disable cups.service
# systemctl disable cups-browsed.service
```

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# Clean up
pkg clean
```

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# Check for Android Security Bulletins
adb shell "am start -a android.intent.action.VIEW -d https://source.android.com/security/bulletin"
```

```
# Check and update packages through adb
adb shell "su -c 'pkg update -y && pkg upgrade -y'"
```