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#!/bin/bash
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#####
# This iptables firewall script was taken from the CIS Ubuntu Linux 16.04 LTS Benchmark
# document.
#####

# Flush IPtables rules

iptables -F

# Ensure default deny firewall policy

iptables -P INPUT DROP

iptables -P OUTPUT DROP

iptables -P FORWARD DROP

# Ensure loopback traffic is configured

iptables -A INPUT -i lo -j ACCEPT

iptables -A OUTPUT -o lo -j ACCEPT

iptables -A INPUT -s 127.0.0.0/8 -j DROP

# Ensure outbound and established connections are configured

iptables -A OUTPUT -p tcp -m state --state NEW,ESTABLISHED -j ACCEPT

iptables -A OUTPUT -p udp -m state --state NEW,ESTABLISHED -j ACCEPT

iptables -A OUTPUT -p icmp -m state --state NEW,ESTABLISHED -j ACCEPT

iptables -A INPUT -p tcp -m state --state ESTABLISHED -j ACCEPT

iptables -A INPUT -p udp -m state --state ESTABLISHED -j ACCEPT

iptables -A INPUT -p icmp -m state --state ESTABLISHED -j ACCEPT

# Open inbound ssh(tcp port 22) connections
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iptables -A INPUT -p tcp --dport 22 -m state --state NEW -j ACCEPT
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