Router rules

1. LN -> I allow all

iptables -A FORWARD -i eth0 -o eth1 -j ACCEPT

2. I -> LN allow related traffic

iptables -A FORWARD -i eth1 -o eth0 -m state --state ESTABLISHED,RELATED -j ACCEPT

3. LN -> WS allow 80, 443 TCP

iptables -A FORWARD -i eth0 -o eth2 -p tcp -m multiport --dports 80,443 -j ACCEPT

4. WS -> LN allow related traffic

iptables -A FORWARD -i eth2 -o eth0 -m state --state ESTABLISHED,RELATED -j ACCEPT

5. I -> WS allow 443

iptables -A FORWARD -i eth1 -o eth2 -p tcp --dport 443 -j ACCEPT

6. WS -> I allow related traffic

iptables -A FORWARD -i eth2 -o eth1 -m state --state ESTABLISHED,RELATED -j ACCEPT

Web Server rules

iptables -P INPUT DROP

iptables -A INPUT -s 10.0.0.0/255.0.0.0 -p tcp -m multiport --dports 80,443 -j ACCEPT

iptables -A OUTPUT -d 10.0.0.0/255.0.0.0 -m state --state ESTABLISHED,RELATED -j ACCEPT

iptables -A INPUT -p tcp --dport 443 -j ACCEPT

iptables -A OUTPUT -m state --state ESTABLISHED,RELATED -j ACCEPT

Sourse Network Address Translation

iptables -t nat -A POSTROUTING -o eth1 -j SNAT --to-source 202.41.117.1

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Router Forwarding Firewall Rules(Assignment 1)

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Local net to intenet //allow all traffic

iptables -A FOREWARD -i eth0 -o eth1 -j ACCEPT

Internet to Local Net //allow related traffic

iptables -A FOREWARD -i eth1 -o eth0 -m --state ESTABLISHED,RELATED -j ACCEPT

Local Net to Webserver //allow 80,443 tcp

iptables -A FOREWARD -i eth0 -o eth2 -p tcp --dport 80 -j ACCEPT

iptables -A FOREWARD -i eth0 -o eth2 -p tcp --dport 443 -j ACCEPT

webserver to Local net //allow related traffic

iptables -A FOREWARD -i eth2 -o eth0 -m state --state ESTABLISHED,RELATED -j ACCEPT

Internet to webServer //allow 443 tcp

iptables -A FOREWARD -i eth1 -o eth2 -p tcp --dport 443 -j ACCEPT

Webserver to Internet //allow related traffic

iptables -A FOREWARD -i eth2 -o eth1 -m state --state ESTABLISHED,RELATED -j ACCEPT

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WEBSWEVER Firewall Rules(Assignment 2)

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iptables -A INPUT -p tcp --dport 80 -s 10.\* -j ACCEPT

iptables -A INPUT -p tcp --dport 443 -j ACCEPT

iptables -A OUTPUT -m state --state ESTABLISHED,RELATED -j ACCEPT