Netfilter / iptables

- Every packet is inspected by firewall rules. Firewall rules determine what traffic your firewall allows and what is blocked.
- The iptables firewall uses tables to organize its rules.
- Within each iptables table, rules are further organized within separate CHAINS.
 Rules are placed within a specific chain of a specific table.
- Within a chain, a packet starts at the top of the chain and is matched rule by rule.
- When a match is found the target is executed.
- A target is the action that is triggered when a packet meets the matching criteria of a rule. If the target is terminating no other rule will evaluate the packet.

NETFILTER CHAINS

- 1. **INPUT** used for filtering **incoming packets**. Our host is the packet destination.
- 2. OUTPUT used for filtering outgoing packets. Our host is the source of the packet.
- 3. FORWARD used for filtering routed packets. Our host is router.
- 4. PREROUTING used for DNAT / Port Forwarding
- 5. POSTROUTING used for SNAT (MASQUERADE)