

Rule	Dir	Src Addr	Dest Addr	Prot	Src Port	Dest Port	ACK Set	Action
A	In	External	Internal	TCP	> 1023	25	Any	Allow
B	Out	Internal	External	TCP	25	> 1023	Yes	Allow
C	Out	Internal	External	TCP	> 1023	25	Any	Allow
D	In	External	Internal	TCP	25	> 1023	Yes	Allow
E	Either	Any	Any	Any	Any	Any	Any	Deny

Packet	Dir	Src Addr	Dest Addr	Prot	Src Port	Dest Port	ACK Set	Action (rule)
1	In	121.12.1.2 (ext)	222.2.2.2 (int)	TCP	25	8080	Yes	?? (?)

Question 1: Packet Filters 1.1. What is the action taken by the packet filter (Allow/Deny) and which rule is applied (A-E)?

1.2. Now consider packet 2. What is the action taken and which rule is applied?

Packet	Dir	Src Addr	Dest Addr	Prot	Src Port	Dest Port	ACK Set	Action (rule)
2	In	121.12.1.2 (ext)	222.2.2.2 (int)	TCP	5051	25	Yes	?? (?)

1.3. Now consider packet 3. What is a reasonable assumption about this packet?

Packet	Dir	Src Addr	Dest Addr	Prot	Src Port	Dest Port	ACK Set	Action (rule)
3	In	121.12.1.2 (ext)	222.2.2.2 (int)	TCP	25	5055	Yes	?? (?)

- It is accessing an internal web server.
- Someone inside the organization is sending mail to someone outside
- Someone outside the organization is sending mail to someone inside