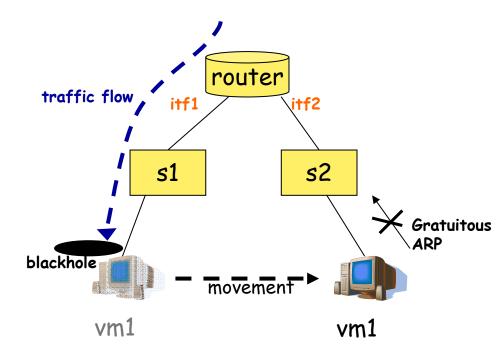


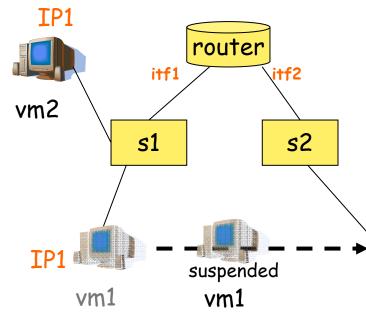
Vulnerability Issues (1) – ARP packet loss



- Address resolution: IP + MAC + SInterface
- Blackhole issue: gratuitous ARP lost due to congestion
- Severe consequence, esp when traffic is uni-directional
- Normal congestion control mechanisms (re-trans, reducing sending rate) do not help
- Recovered by next successful gratuitous ARP or ARP reply



Vulnerability Issues (2) – DAD (duplicate address detection)





- Suspension time always exists when vm moves
- Suspension time = vm's nonresponding time
- Not able to respond to DAD
- Late comer (vm2) may take over IP (vm'1 IP) legally
- Mess up the address allocation

Solicit the feedback

- ARMD covers "vulnerability issues" too?
- Suggestions? Scalibility issues

Vulnerability issues

