#### Firewalls and load balancers

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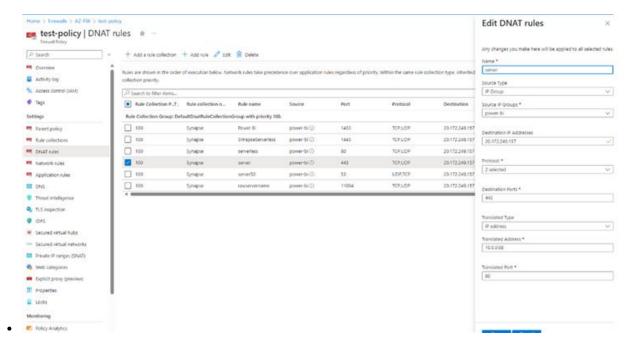
- Azure firewall
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### need to prepare

- subnet delegation, can we add NSG's and route tables.
- VPN gateways use route based or policy based.
- In the NSG's we are not writing any outbound rules, how the traffic goes outside
- #ACL-Access\_Control\_List in switches.
- #stateful\_firewalls (next gen firewalls) and #stateless\_firewalls .
- If we give an outbound, no need to give an inbound called stateful firewalls
- the 3-way hand shake concept can be an example of stateful architecture.
- IDS and IPS source

## **Azure firewall**

- source
- We can use layer 3 Ip address rules in NSG's.
- We can also use IP, urls and main more as rules.
- L3-L7, we can inspect the traffic.
- 3 types of Azure firewalls
  - Basic
  - Standard
  - Premium
- need to do subnet delegation for firewall.
- AzureFirewallSubnet
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- We have a public Ip for a firewall
- We can use NAT rules, Network rules, Application rules concepts using firewalls.



• SNAT, DNAT

#### priority of DNAT, SNAT...

Rule collection Group

DNAT (more priority)

N/W (medium priority)

Application (less priority).

# **Route table limitations**

• cannot associated to a different subscription subnet.

### **Load-Balancers**

public-Load-balancers