DDOS Attack Mitigation with RTBH

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MYANMAR NETWORK OPERATORS GROUP



How to prevent DDOS?

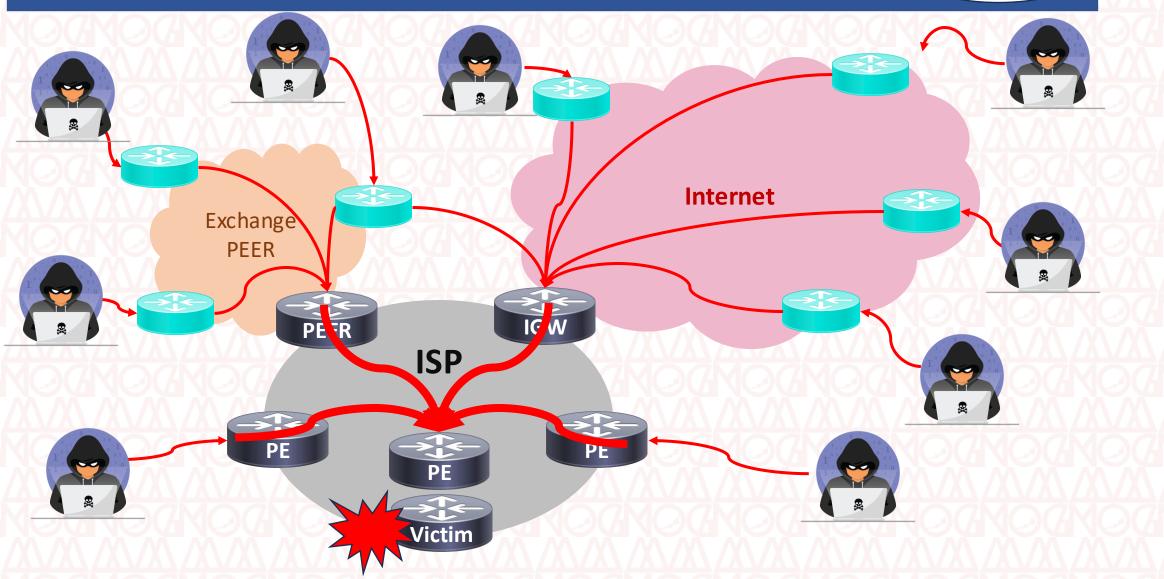
- Cloud-based DDoS protection services
- CDNs to absorb and distribute traffic
- rate limiting to control request volume
- web application firewalls (WAFs) to protect against application-layer attack

How to prevent DDOS?

- Anycast
- Scaling network capacity
- Traffic filtering
- Blackholing (or null routing)
- Sinkholing

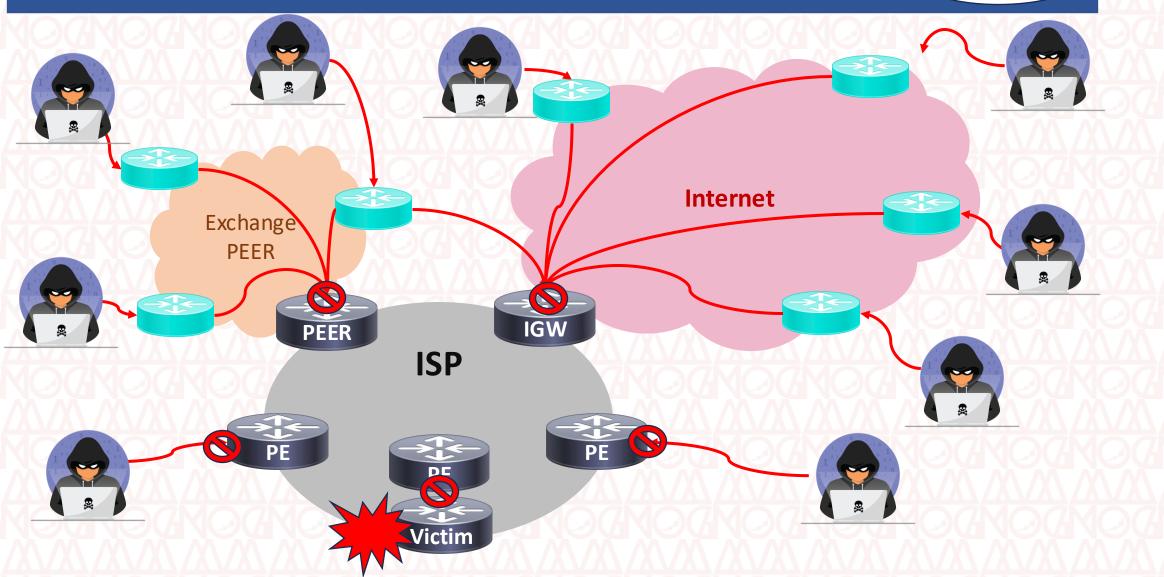
DDOS Attach from all direction





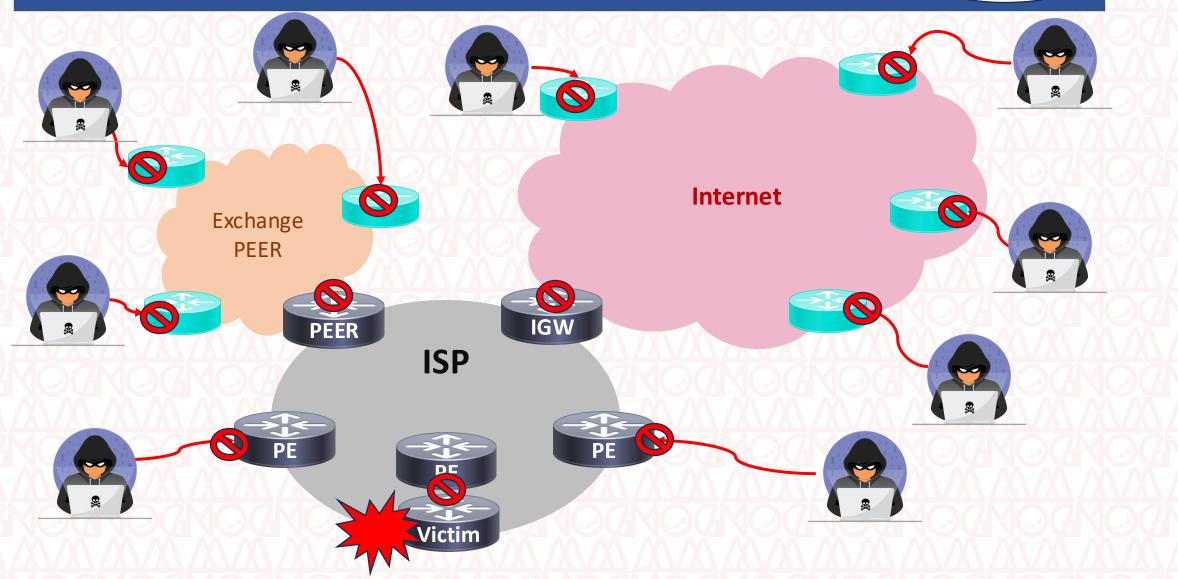
DDOS Self-Prevention





DDOS Prevention – drop nearest to sources





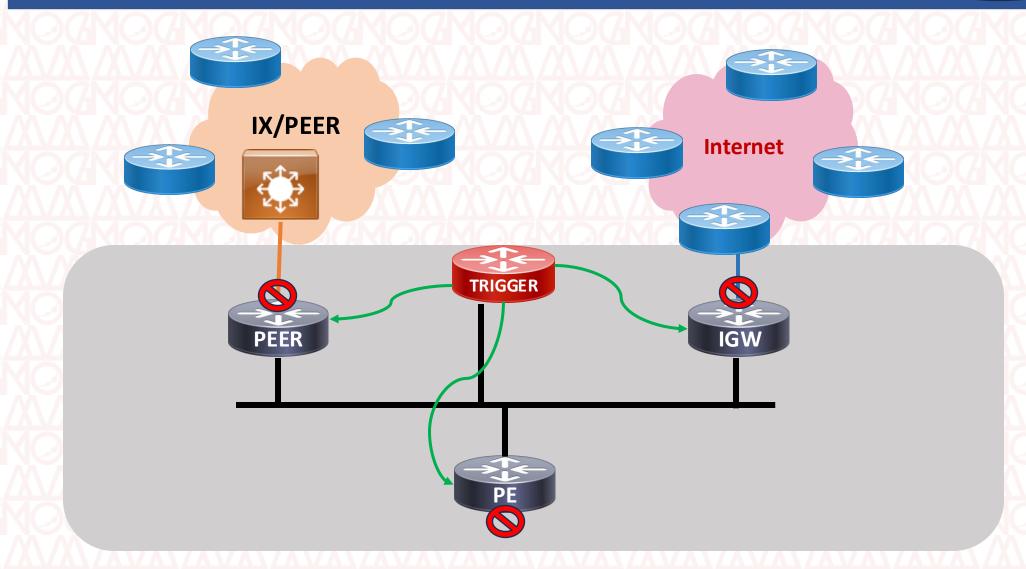


Zero Cost Protection RTBH/UTRS

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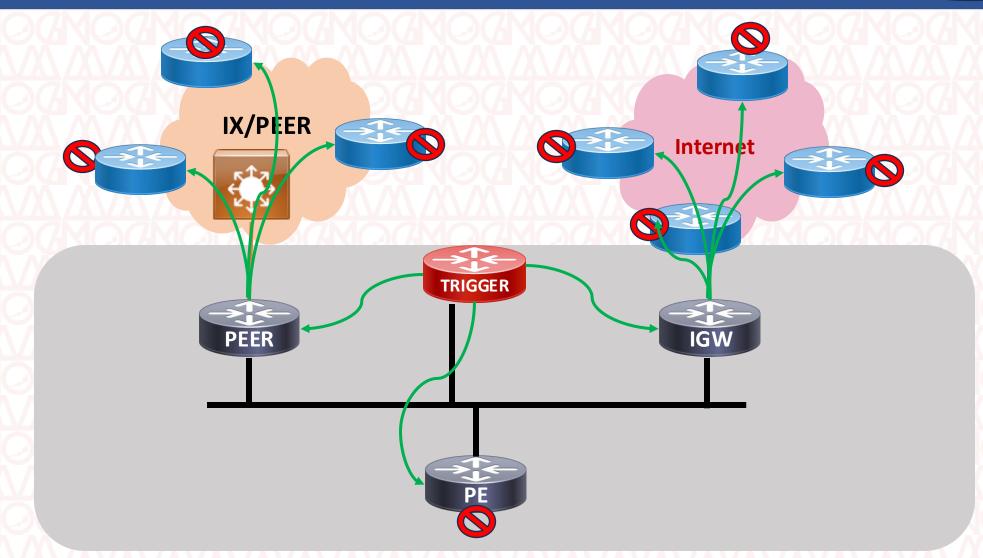
Prevention with RTBH





Dealing with Others





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RTBH Prons & Cons



Pros	Cons
Efficient for large volumetric attacks	Indiscriminate traffic dropping: can impact legitimate traffic.
Simple and fast deployment	Ineffective against certain attacks: can't solve Application-level attack.
Protects shared infrastructure	Can cause more problems: If attacks are directed at multiple IP
Flexible	Limited control: If a customer relies on an ISP to trigger RTBH, they lose some control and reactiveness in an emergency.

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Thank you

Q&A

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