DrawBridge Demo

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Basics

• GENI testbed
• 4 different sites (ASes)
  • Stanford
  • Cornell
  • NYU
  • Here (UCSD eduroam)
• Video streaming demo:
  • Video traffic as the desired traffic
  • Video stream client as the victim
  • Streaming at around 512 kbps from server to client
• Link saturation attacks
  • 2 Mbps inter-AS links
  • 4 Mbps large packets generated by hping3
Demo Setup

Video Server

UCLA
C3
S3
2 Mbps link

Cornell
C2
S2
2 Mbps link

NYU
C1
S1
2 Mbps link

Video Client

512 Kbps video traffic
Local Attack and Defense
Local Attack

Video Server

Attacker Machines

Video Traffic

DDoS Traffic

Video Client
Defense Against Local Attack
Remote Attack (1)
Remote Attack (1)
Defense against Remote Attacks (1)
Defense against Remote Attacks (1)
Remote Attack (2)
Defense against Remote Attacks (2)
Defense against Remote Attacks (2)
Defense against Remote Attacks (2)