

Distributed Denial of Service Attacks: Characterization and Defense

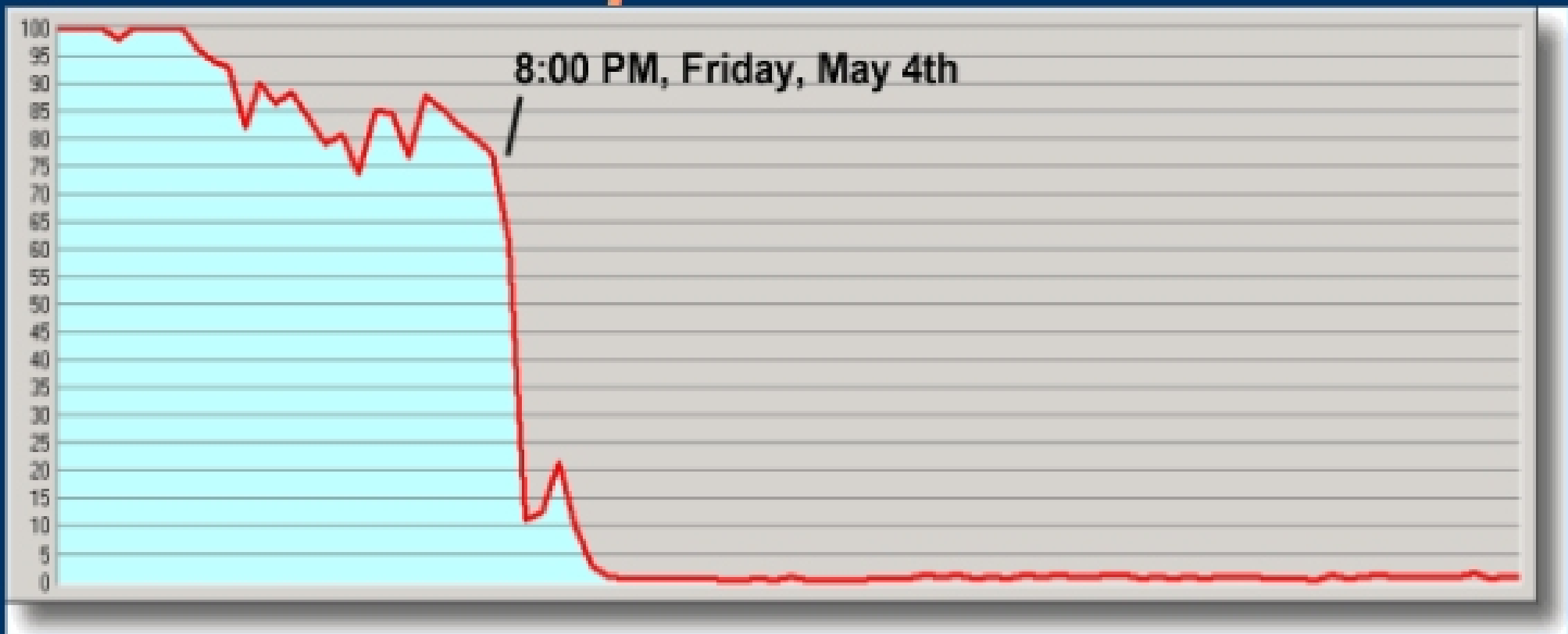
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Outline

Anatomy of a DDoS Attack: Gibson
Research Corporation
DDoS Attack Characterization
Advanced DDoS with Traffic Reflection
Attack Taxonomy
Potential DDoS Defenses
Defense Taxonomy
Initiatives at UCCS
Next?

Anatomy of a DDoS: Gibson Research Corporation



- May 4th, 2001, two direct-line 1.54Mb T1's flooded
 - 1500B UDP packets bound for port 666, plus some ICMP and a little TCP; ISP didn't filter any of it
 - 17 hours initial downtime, then 5 more attacks
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