

DDOS demystified

A 1 day training course



Description

This course covers DDOS attacks and how to defend against them. The course starts by studying DOS attacks and then DDOS attack. Reflectors, booters and stressers are followed by reflection and amplification. Once the various DDOS attacks have been covered we then study the ways to defend against DDOS attacks.



Key outcomes

By the end of the course delegates will be able to:

- ✓ Describe DDOS.
- ✓ Explain how DDOS attacks work..
- ✓ Recognise DDOS attack types.
- ✓ Describe how to defend DDOS attacks.



Training approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning.



Details

Who will benefit?

Anyone involved in network security.

Prerequisites

Network fundamentals.

Duration: 1 day

Overall rating:



Generic training



Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".

"Friendly environment with expert teaching that teaches the why before the how."
G.C. Fasthosts

Small class sizes



We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.

"Excellent course. The small class size was a great benefit..."
M.B. IBM

Hands On training



The majority of our courses use hands on sessions to reinforce the theory.

"Not many courses have practice added to it. Normally just the theoretical stuff is covered."
J.W. Vodafone

Our courseware



We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.

"Comprehensive materials that made the course easy to follow and will be used as a reference point."
V.B. Rockwell Collins

Customise your course



Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.

"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."
S.R. Qinetiq

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Course content

What is DOS?

Denial Of Service, outages, Attackers, Command and control, Bots. Why DOS?

What is DDOS?

Distributed, reflectors, botnets, botnet topologies, amplification, attack bandwidth, attack vectors, booters, stressers, backscatter, DirtJumper, XOR. RUDY. High and Low orbit Ion Cannon.

Attack types

Application layer attacks, HTTP flood, protocol attacks, SYN floods, teardrop, volumetric attacks, slowloris, DNS cachebusting, fraggle, smurf. IP address spoofing.

Reflectors

Reflector attacks, amplification attacks, quotients, embedded devices, DNS, NTP, SSDP.

DDOS defence

Protecting devices from becoming bots. Onsite, outsourced scrubbing, Defending self, defending the Internet, Black hole routing, rate limiting, intelligent application firewalls, anycast, IPS, upstream filtering, BCP38, BCP 140. uRPF.

What our customers say

"Absolutely brilliant, very knowledgeable and helpful trainer would recommend to teach anyone. Kept me interested 100% of the time which is very impressive as this does not happen often, if at all!"

O. B. Network Rail

"The best technical course I've been on!."

L. W. Fujitsu Telecoms Europe

"Very well thought out and structured course. Would recommend 100%. Lots of equipment, good quality."

A.R. Unipart

"Course content is interesting. Relevant to current systems and presented well."

S.S-T. Arqiva

