ABOUT THE COURSE

Mastering Docker Security (MDS) is the definitive Docker security course that you have been looking for. It empowers you with in-depth knowledge of securing containers, Docker's architecture, and operations. This comprehensive program focuses on best practices for securing Docker environments, using practical hands-on teaching approach, teaching you how to set up, manage, and fortify your containerized applications.

You'll learn to perform VAPT assessments and apply advanced penetration testing techniques specific to container infrastructures. By mastering these skills, you'll be equipped to protect and maintain secure Docker deployments in today's evolving threat landscape.

Instructor- Led Online

Duration: 20 Hours

WHO SHOULD ATTEND ?

DARKRELAY

• Cybersecurity Enthusiasts

• Developers

• Security Researchers

• DevOps Engineers

• QA Engineers

• Web Penetration Testers

• Application Security Engineers

• Bug Bounty Hunters

MASTERING DOCKER SECURITY (MDS)

For more information

Visit: www.darkrelay.com
Email: training@darkrelay.com

COURSE OUTLINE

Introduction

- Course Pre-requisites
- Introduction To Linux
- Taking Notes

Lab Setup

- Creating Local Setup
- Docker Setup
- Setting Up Targets
- Cloud Setup for Labs

Introduction to Containers

- Overview of Containerization
- Containers vs Virtual Machines
- Benefits of Containerization
- Use-cases & Industry adoption
- Container Lifecycle Management

Introduction to Docker

- Overview of Docker Fundamentals
- Docker Architecture
- Docker Components
- Docker Namespace & Cgroups
- Docker Images, Hub & Containers
- Docker Networking & Compose

Docker Swarm

- Container Orchestration
- Understanding the Architecture
- Creating Swarm Cluster

Docker Pentesting

- Information Gathering
- Pentesting Containerized WebApps

Docker Security Assessments

- Docker Daemon Security
- Docker Bench
- Docker Image Security & Tools
- Checking Docker Volumes
- Checking Docker Networks

Container Runtime Security

- Privileged Containers & Root
- Leveraging Container Capabilities
- Inspecting Environment Variables

Attacks on Docker

- Container Enumeration
- Escaping Containers
- Privilege Escalation
- Leveraging Real-World Exploits

Advanced Docker Security

- AppArmor For Docker Security
- Seccomp & DCT
- Securing Docker Engine

Securing Docker Environments

- Threat Modelling
- OWASP Top 10 For Docker
- Best Practises & Risk Management

Conclusion

- CVSS Scoring & Report Writing

ABOUT DARKRELAY

Founded in 2019, DarkRelay is led by Cybersecurity veterans who are **SANS 760, GXPN, GPEN, OSCP, OSCE,** and **CISSP certified** with **over 20 years** of experience in cyber security research and development.

DarkRelay uses global its perspective to build valuable security programs for its clientele.

Whether you are a beginner or an experienced cyber security professional, our training will address your every learning need, challenge, and career goal.

OUR TRAININGS

- Professional Penetration Testing
- Attacking Web Applications
- Fuzzing & Exploit Development
- Software Development Security
- Advanced Penetration Testing
- Mastering Kubernetes Security
- Red Teaming
- Ethical Hacking
- Malware Analysis
- Cloud Security
- Mobile Security

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