Gigamon Education Services

Gigamon Professional Bootcamp (GPB)

Elevate your expertise in network visibility and security with the Gigamon Professional Bootcamp, designed to provide comprehensive training for implementation across your physical, virtual, and hybrid cloud environments.

Course Overview

The Gigamon Professional Bootcamp (GPB) is a 5-day, instructor-led course that teaches security, network, cloud and sales engineers security fundamentals for implementing Gigamon technologies to feed the right network traffic to the right security tools to monitor data-in-motion as part of a comprehensive security strategy.

The course illustrates the concepts needed by a network visibility specialist, as well as provides hands-on experience in implementing the Gigamon Deep Observability Pipeline to harnesses actionable network-derived intelligence and insights to amplify the power of your cloud, security, and observability tools. This course also provides instruction into the knowledge, skills and attitudes needed for implementing deep observability into physical, hybrid, and cloud networks.

Course Delivery

This five-day course is delivered through a variety of methods, including:

- Instructor Led Training (ILT)
- Instructor Led Online (ILO)

This course is scheduled regularly by our Authorized Training Partners (ATPs) as publicly scheduled classes.

Alternatively, a private ILT class can be arranged. When purchasing a private ILT class, the instructor's travel and expenses (T&E) are included in the price of the class. The organization is responsible for providing the training venue for any private class delivery.

Who Should Attend

The primary target audiences for the course are:

- All end users of Gigamon products
- Security operations professionals and architects
- Network operations professionals and architects
- Professional service and system integrations specialists
- Network and security administrators and architects
- Participants of the Gigamon Partner Program and Gigamon Support Partner Program (GSPP) or Gigamon Professional Services Program (GPSP)

Prerequisites

IMPORTANT: It is recommended that you have the following pre-requisites prior to taking the GPB course:

- Basic working knowledge of Gigamon products and configuration
  - Gigamon Foundations I course
  - Gigamon Foundations II course
  - Gigamon Inline Bypass course
  - Gigamon Inline TLS/SSL Decryption course

Course Objectives

A specialist providing network visibility must have a basic level of knowledge in four major categories in order to assist and advise management and the various network and security tool operators in how to provide complete and trustworthy network traffic and flow summary data to meet the organization's monitoring and security needs. This course focuses on Gigamon products, basic networking, security, and cloud as they relate to network visibility solutions. The course provides instruction in support of the following:

- Understand approaches and considerations for out-of-band packet access
- How to select a trustworthy traffic source
- How to implement a packet access solution in a physical network infrastructure
- Methods and options for matching traffic volume with tool capacity
- How to implement packet optimization for analysis
- Connectivity requirements for inline and out-of-band tools
- Approaches and considerations for packet access for inline tools
- How to replicate traffic to out-of-band tools for augmenting inline security
- How to implement tool groupings and load sharing for inline processing
- Traffic sizing for inline security and network analysis tools
- Approaches and considerations for packet access in the cloud
- How to implement a packet access solution in a cloud or hybrid network infrastructure
- How to extract virtualized traffic for use with virtualized and physical tools
- How to perform visibility solution maintenance and operations

Course Modules

The course includes approximately 4.5 days of instruction time, hands-on labs and several discrete, sequential modules that walk you through the materials covered:

- Module 1 — Networking Technology
- Module 2 — Visibility Architectures
- Module 3 — Security Essentials
- Module 4 — Implementing Security
- Module 5 — Cloud Technology
- Module 6 — Visibility in the Cloud
- Module 7 — Gigamon Maintenance and Operations

Detailed Course Outline

Module 1: Networking Technology

A review of how the network affects packet characteristics and packet-level access.

- OSI Model and Visibility
- Traffic Access
- Tap Selection
- Applying OSI Model Knowledge

Module 2: Visibility Architectures

Implementing good visibility provides all tools access to the right traffic, and optimizes that traffic to reduce tool processing requirements.

- Visibility Supports Good Cybersecurity Architecture
- Installation and Configuration
- Port Types
- Map Rules
- Traffic Intelligence
- Solution Sizing

Module 3: Security Essentials

The challenges faced by SecOps cannot be met without good physical and cloud visibility.

- OSI Model and Security
- Visibility Supports Good Cyber-Security
- Perimeter Defense
- Zero Trust
- Threats and Risk Mitigation
- Migrating to the Cloud
- Deep Packet Inspection
- Security Tools
- Traffic Fidelity
- Stakeholders

Module 4: Implementing Security

Security tools depend on receiving the right traffic at a consumable rate. Unreliable traffic or too much traffic puts security at risk.

- Inline Bypass
- Security Protocols
- Inline Decryption
- Redundant Networking Arrangements
- Traffic Sources

Module 5: Cloud Technology

Evolving cloud functionality continues to present challenges for a good observability solution to overcome.

- Evolution of Virtualization
- Cloud Traffic Visibility
- OSI Model and the Cloud
- Virtual Traffic Access
- Virtual Traffic Access Concerns
- Cloud Security

Module 6: Visibility in the Cloud

Cloud visibility demands a dynamically scalable solution that is consistent across multiple cloud providers.

- Cloud Visibility
- GigaVUE Cloud Suite™
  - Monitoring Domain
  - Monitoring Session
  - Automatic Target Selection
  - Traffic Delivery Review
- Accessing Cloud Traffic
  - VMware ESXi
  - VMware NSX-T
  - OpenStack
  - Azure
  - AWS

Module 7: Maintenance and Operations

Gigamon Deep Observability Pipeline administration.

- Installation and Configuration
- Power Management
- Backup and Restore
- GigaVUE-FM
- Role Based Access Control (RBAC)
- Clustering
- Licensing
- Moving or Replacing Modules
- Software Upgrade

Labs

- Lab 1 - Traffic Forwarding Discussion 1
- Lab 2 - Traffic Forwarding Discussion 2
- Lab 3 - Traffic Forwarding Discussion 3
- Lab 4 - Wireshark Trace File Activity – Identifying Filter Rule Elements
- Lab 5 - Wireshark Trace File Activity – Command Prompt Ping
- Lab 6 - Chassis and Port Prep
- Lab 7 - GigaSMART Tunneling Configuration Lab
- Lab 8 - GigaSMART De-Duplication Configuration Lab
- Lab 9 - GigaSMART NetFlow/IPFIX Configuration Lab
- Lab 10 – Inline Bypass Configuration Lab
- Lab 11 – Flexible Inline Bypass Configuration Lab
- Optional – Inline SSL Decryption
- Lab 12 – Resilient Inline Arrangement Configuration Lab
- Lab 13 - VMware ESXi Configuration Lab
- Lab 14 - VMware ESXi De-duplication Configuration Lab
- Lab 15 - Clustering Configuration Lab

For more information or questions

If you have additional questions, please contact your Gigamon Sales Account Manager. Channel Partners please contact your Channel Account Manager or email EdServices@gigamon.com.

Gigamon®

Worldwide Headquarters
3300 Olcott Street, Santa Clara, CA 95054 USA
+1 (408) 831-4000 | gigamon.com

10.24_02