Be the expert

Security operations analyst training program

Train and retain

Training and retaining security resources is an integral piece of any security operations organization. HPE recognizes this need and has developed an analyst training program that prepares an analyst to be fully capable of operational security monitoring without immediate supervision. Areas covered in the training include:

- Intrusion analysis

- Information security principles (defense and offense)

- Network (TCP/IP)

- UNIX®, Windows®

- Security tools and research

SOC Analyst training program

The basic mission of security operations is to recognize and respond to critical information security events in a timely and effective manner. In the face of very high event volumes, an analyst is rapidly overwhelmed without the appropriate supporting technology and most importantly, the right training and experience. It is critical that HPE Security Products train personnel with a cost-effective mix of internal training, formal classroom training, external training, and on-the-job training.

The HPE security operations center (SOC) Analyst training program is designed to take a reasonably technical person and train them in skills required of a security operations analyst. The training program combines classroom lecture, reading assignments, research assignments, and practical exercises.

All exercises are graded and may involve multiple iterations until an acceptable product is produced by the trainee. Another area of focus for the training method is to help ensure that all analysts can effectively communicate verbally, in writing and in front of an audience.

This training is designed to challenge the analyst to conceive their own approaches and to cement their understanding of one topic before the next is started. This is critical to train analysts to teach themselves and how to operate with incomplete information.

Training contents

The typical time to complete the entire training program is approximately three months, as this training is completed while the analyst is also undergoing on-the-job training.

Areas of emphasis include:

- Analytical thinking (psychology)

- Communications (written, verbal, presentation)

- Intrusion analysis

- Information security principles

- UNIX fluency

- Windows fluency

- Network fluency

- Research skills

- Tools (Wiki, security information event monitoring (SIEM))

- Use cases and business context

- SANS training preparation

Benefits

The HPE Analyst training program provides several benefits, including:

- Consistency in analysts and analysis

- Shared baseline for analysts

- Repeatable program that can be used with new analysts in the future (promotions, attrition, or other employee turnover)

- Security intelligence skills assessment to identify or measure coverage and gaps

- Security intelligence job certification program (optional)

Training plans

HPE Security Products will catalog and preview all training plans using self-study, on-site training, and on-the-job training to produce a training syllabus for security analysts. HPE Security Products will track analyst progress and introduce appropriate classroom work to reinforce the lessons learned in the customer's environment. All of the training resources and plans will be maintained on the collaboration server to provide repeatability, transparency, and ease of access.

HPE Security Products will provide and populate a skills proficiency matrix for the SOC analysts, identifying where strengths and development opportunities exist for each member of the analyst team.

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