Syllabus of Zero Trust Security

We are glad you have joined us for this course! Here is some information that will help you to navigate your learning platform and locate course content.

Joining the Session

Before the first live session please confirm that you can access Zoom:

1. Visit https://support.zoom.us and click on Getting Started.

2. Attn Percipio Users - The Join live course option is available where you registered for the session in Percipio 15 minutes prior to the start of class.

Course Description

Zero Trust Security has rapidly emerged as a significant global trend for all types of organizations. Practically all enterprises have historically implemented some form of zero trust components without officially adopting the architecture. However, there is still quite a bit of confusion as to exactly what the initiative is and how to best implement it. In this live 4-hour crash course, security industry expert Michael J. Shannon demystifies the various architectures and offers real-world guidance for launching or continually improving your Zero Trust initiative while avoiding common pitfalls.

Audience

Candidates preparing for the Cloud Security Alliance (CSA) exam to get the Certificate of Zero Trust Knowledge (CCZT).

Agenda

In this course the following topics are covered:

- **Session 1: Zero Trust Architectures** ○ Defining Zero Trust and related concepts ○ History and progression ○ Core principles ○ Expanded principles ○ Requirements for a platform ○ Components of a ZT architecture ○ The NIST Zero Trust Model (SP 800-207) ○ The Garbis/Chapman conceptual model ○ Resource-based model ○ Enclave-based model ○ Cloud-routed model ○ Microsegmentation model

15 Minute Break

- **Session 2: Zero Trust in Practice** ○ Google BeyondCorp ○ PagerDuty ZT Network ○ Software Defined Perimeters ○ IAM and Privileged Access Management ○ Network infrastructure and NAC
  ○ Next-generation IDS/IPS and Firewalls ○ VPNs
  ○ Security Operations ○ Data protection and DLP ○ Cloud services ○ IoT and Zero Trust

15 Minute Break

- **Session 3: Zero Trust Policies, Scenarios, and Strategies** ○ Common constraints and roadblocks ○ Zero Trust components ○ Applied policies and scenarios ○ VPN alternatives ○ Third parties using access controls
  ○ Migrating to the cloud

- o DevSecOps
- o Service-to-Service Access o Full Zero Trust network transformation o Mergers and acquisition considerations o Strategic top-down approach o Tactical bottom-up approach o Examples of Zero Trust deployments
- o Overview of the CSA CCZT exam