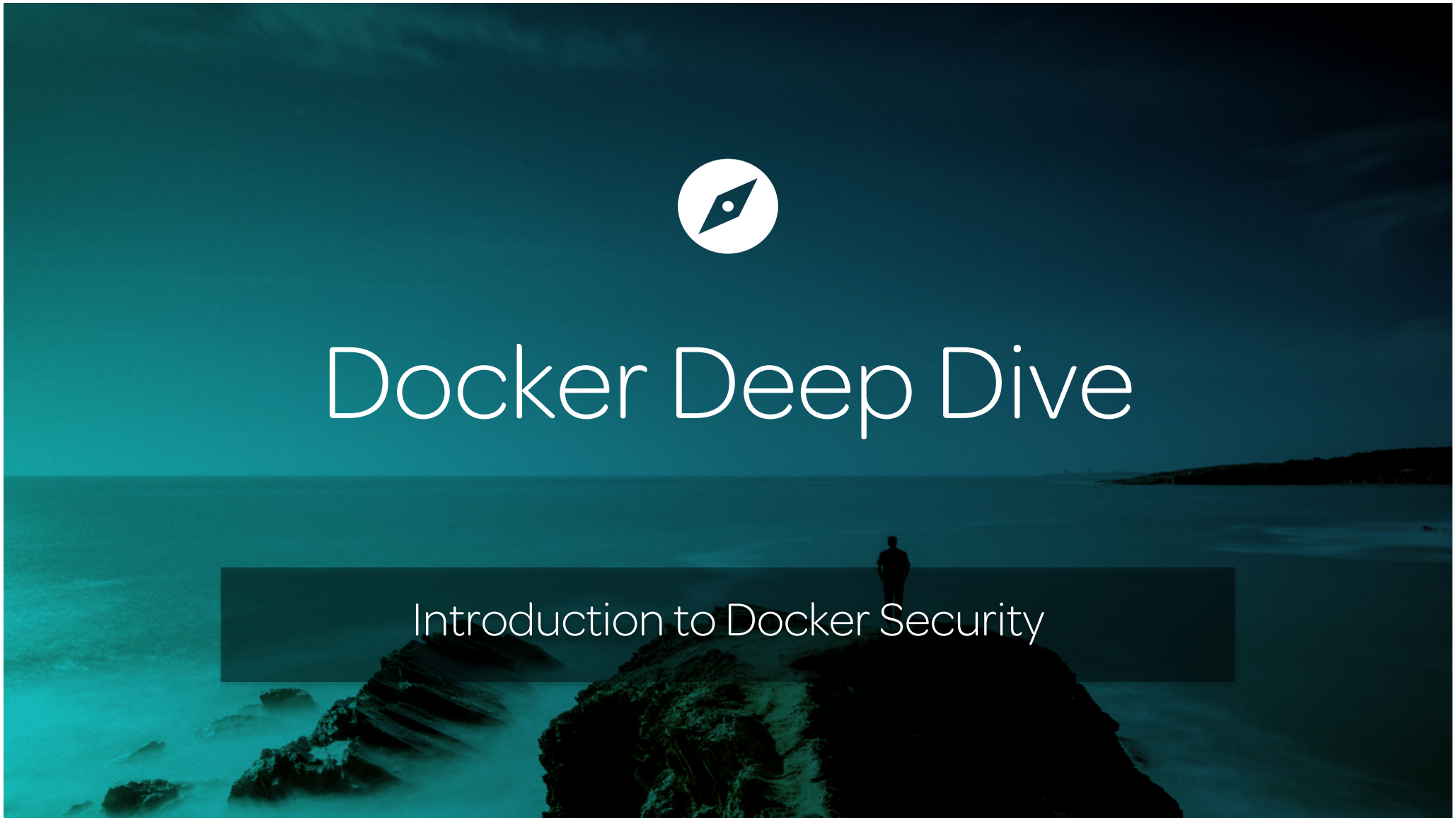
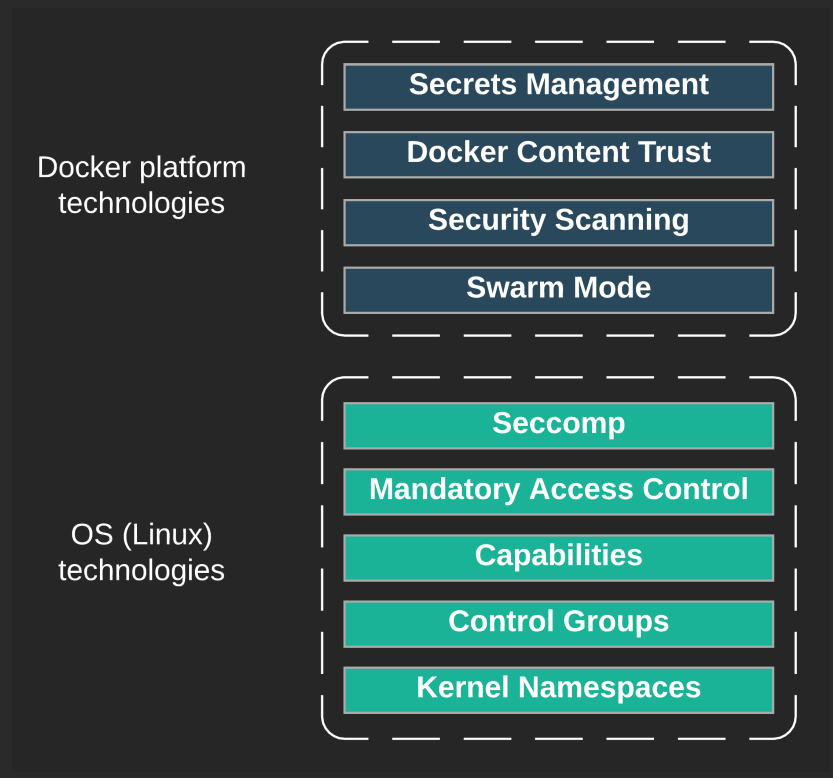

Docker Deep Dive
Introduction to Docker Security

Docker Security 101



Namespaces

- Docker on Linux Namespaces:
  - Process ID (pid)
  - Network (net)
  - Filesystem/mount (mount)
  - Inter-process Communication (ipc)
  - User (user)
  - UTS (uts)

Docker Swarm

- Cryptographic node Ids
- Mutual authentication via TLS
- Secure join tokens
- CA configuration with automatic certificate rotation
- Encrypted cluster store
- Encrypted networks

Docker Secrets

Secrets Workflow:

- A secret is created and posted to the Swarm.
- The secret is encrypted and stored.
- A service is created and the secret is attached.
- Secrets are encrypted in-flight.
- The secret is mounted into the container of a service.
- When the task is complete, the in-memory is torn down.

Docker Security 101 (cont.)