

# Certified Network Defender

## Module 19 : Threat Assessment with Attack Surface Analysis

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## Attack Surface Analysis Steps

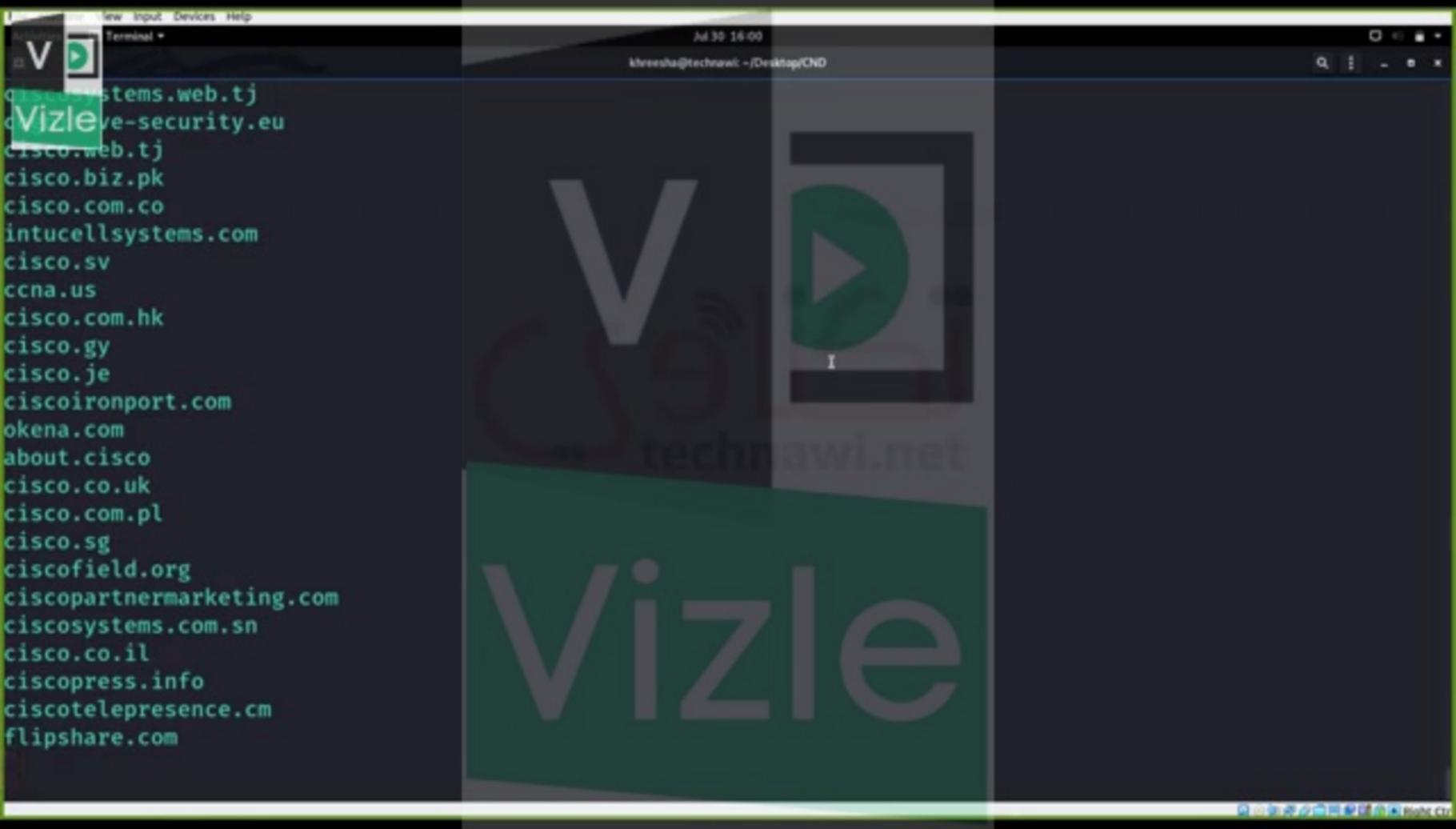
Attack surface analysis is an assessment of all possible exploitable vulnerabilities in an organization's potential attack target.

- Network defenders should conduct attack surface analysis continuously to discover all possible security risk exposures before attackers attempt to exploit.
- Steps to analyze the attack surface include the following :
  - 1. Understand and Visualize the Attack Surface:** This step involves mapping out all devices, paths, and networks.
  - 2. Identify the Indicators of Exposures (IoEs):** In this step, potential risk exposures that attackers can use to breach the security of an organization are identified.
  - 3. Simulate the Attack:** This step involves recognizing how the identified IoE could turn to exploit.
  - 4. Reduce the Attack Surface:** This step involves implementing appropriate security controls and countermeasures to reduce the attack surface of a system.

# Cloud Attack Surface

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Attack Surface	Description	Examples of Attacks
Service to User Service interface exposed to User	Server to client interface. It covers all attacks possible in a client-server architecture.	Buffer overflow, SQL Injection, and Privilege Escalation
User to Service User exposed to Service	A common interface provided by the client application to the server that covers browser-based application attacks.	SSL Certificate spoofing, Phishing
Cloud to Service Cloud resources or interfaces exposed to Service	Cloud resources interacting with the services. Covers attacks run by services on Cloud infrastructure.	Resource exhaustion, DoS
Service to Cloud Service interface exposed to Cloud	Service interface exposed to the Cloud. Covers attacks performed by the service provider against a service running on their infrastructure.	Privacy attacks, Data integrity attacks, Data confidentiality attacks
Cloud to User Cloud interface exposed to User	Cloud interface exposed to the user to manage Cloud services. Covers attacks to the services from the users.	Attacks on Cloud control
User to Cloud User exposed to Cloud	User exposed to the Cloud. Covers attacks targeting the user and originating at the Cloud such as manipulating Cloud-provided services by phishing attempts.	Presenting the user a faked usage bill of the Cloud provider



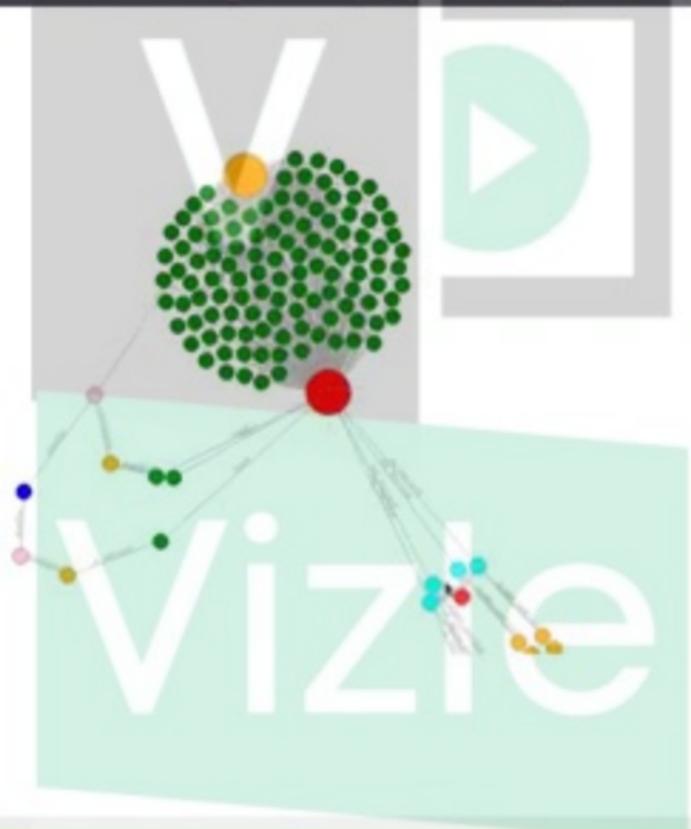
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