€ TRAINING

Web Based Content Filtering

10 - 14 November 2024
Sharm El-Sheikh (Egypt)
Sheraton Sharm Hotel,
Resort,

Web Based Content Filtering

Introduction:

Web filtering is a technology that stops users from viewing certain URLs or websites by preventing their browsers from loading pages from these sites. Web filters are made in different ways and deliver various solutions for individual, family, institutional, or enterprise use.

In general, Web filters work in two distinct ways. They can block content as determined by the quality of the site, by consulting known lists which document and categorize popular pages across all genres of content. Or, they can evaluate the content of the page live and block it accordingly. Many Web filter tools work off of a constantly updated URL database that shows which websites and domains are associated with hosting malware, phishing, viruses, or other tools for harmful activities.

On the surface, web filtering is pretty simple, but like all things, as you start to learn more, everything becomes more complex. With close to a billion active websites on the internet, there's is no way that every website can be included on a web filtering program exclusion list.

Course Objectives:

At the end of this course the participants will be able to:

- Improve security by blocking access to malicious and risky websites
- Prevent malware downloads from malicious or hacked websites
- Keep their defense current with automatic intelligence tools, targeted threat analysis, and continuous updates
- Control access through policy-based controls with highly granular blocking and filtering

Targeted Audience:

- Network Managers
- IT Managers
- Security Managers
- Site Administrators
- Network Administrators
- Technical Support Engineers
- Systems Engineers
- Government Agencies

Course Outlines:

Unit 1:

- What is Content Filtering and Why is It So Important?
- Internet Content Filtering Solution Architecture
- SSL/TLS Traffic
- How SSL/TLS interception works

Unit 2:

- The Security Impact of HTTPS Interception
- HTTP/HTTPS sites
- HTTPS Content Filtering Solution
- Traffic detection, Traffic management, Signature Library

Unit 3:

- Asymmetric Traffic Handling
- Types of Routing Asymmetry
- Considerations and Potential Solutions
- Evaluation Criteria
- Ignore the problem
- Network/external approaches
- Intersect all paths with one box
- Ensure core affinity

Unit 4:

- Different solutions to content filtering
- How to Evaluate Internet Content Filter Solutions
- Client-Based Internet Content Filter Solutions
- Server-Based Internet Filtering Solution
- Gateway-Based Internet Access Control Solution
- Cloud-Based Internet Content Filtering Solution

Unit 5:

- Digital Certificate Management system
- Digital certificates overview
- Digital certificate management considerations
- Z/OS PKI Services
- Smart Certificate Distribution System
- Other related topics of content filtering