



WHAT WE DISCUSSED LAST TIME

Day 2

Module 3: Application pools

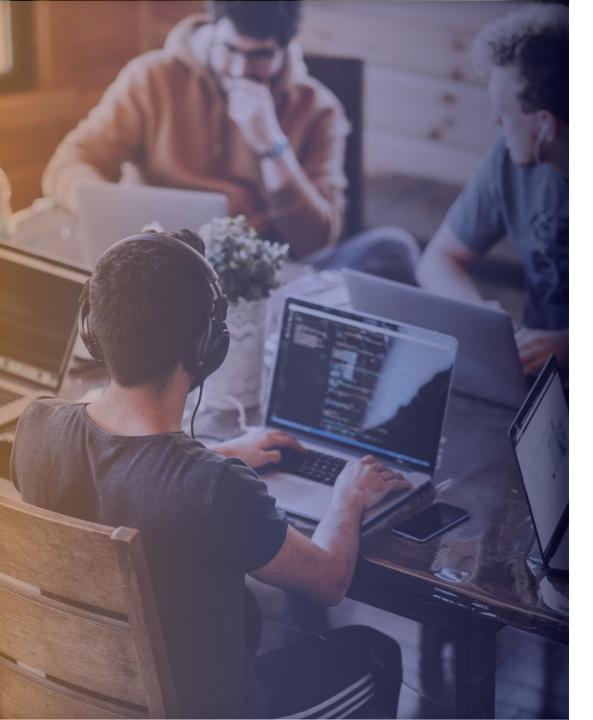
- Application pools overview
- Configure and manage application pools
- Default settings
- Advanced settings
- Labs

Module 4: Authentication

- Authentication introduction
- Anonymous authentication
- Basic and digest authentication
- Windows authentication
- Forms authentication
- Labs

Module 5: SSL encryption

- HTTPS overview



COURSE OUTLINE

Day 3

Module 5: SSL encryption | continued...

- Installing an SSL certificate
- Backup and restore SSL certificate
- Trusting a self-signed certificate
- Lab 5

Module 6: IIS monitoring

- Worker processes monitoring
- Configure logging
- Request failed tracing
- Performance monitoring tool
- Lab 6



COURSE OUTLINE

Day 3

Module 7: FTP and administration

- Administer virtual directories
- Basic administrative tasks (PowerShell)
- Install FTP
- Configure FTP
- IIS Manager for Remote Administration
- Lab 7

Module 8: Backup and load balancing

- HA vs DR
- Backup and restore IIS settings
- Lab 8

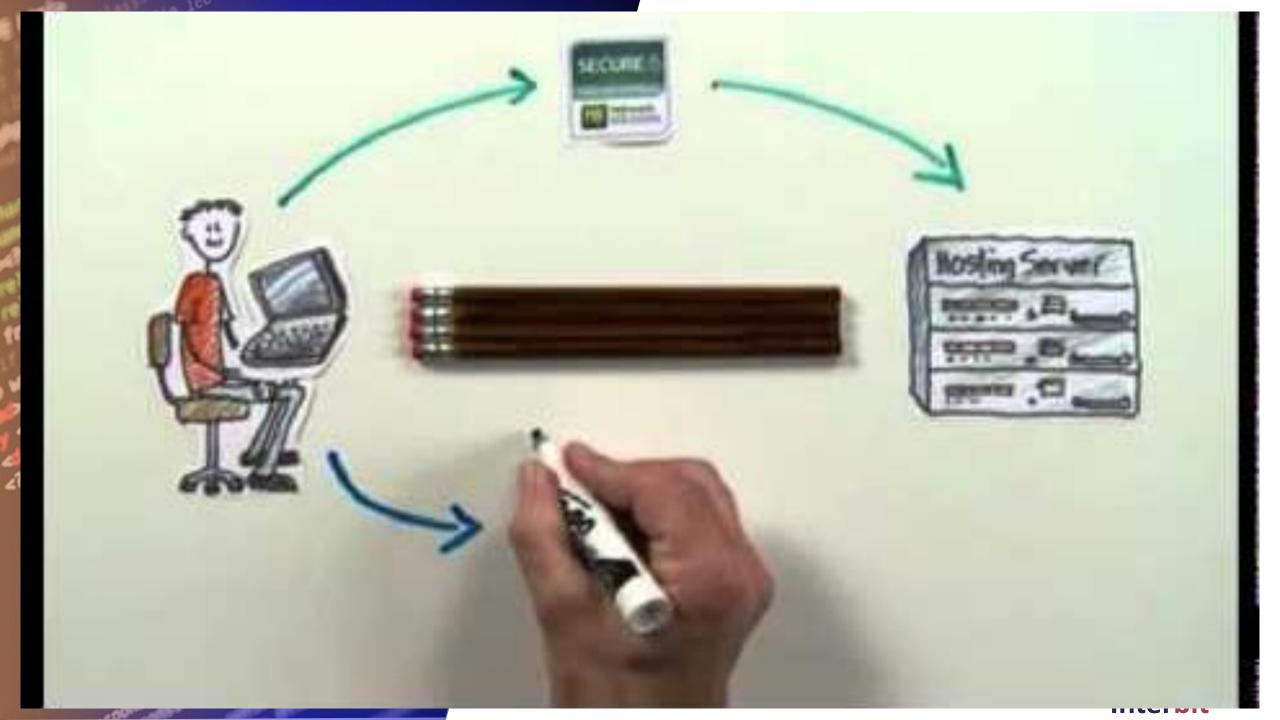




Module5-

SSL ENCRYPTION

SECURE SOCKET L?

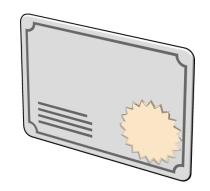


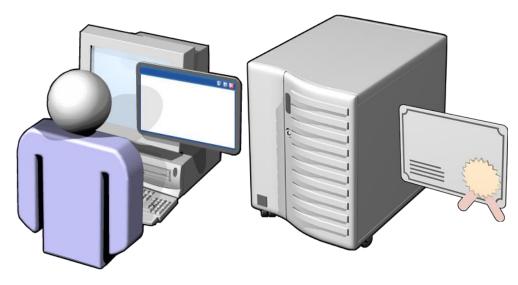
SSL CONFIGURATION

IIS SSL Configuration Steps

- 1. Get an appropriate certificate
- 2. Create an HTTPS binding on a site
- 3. Test by making an request to the site
- 4. Optionally configure SSL options, e.g. making SSL a requirement

Choose Certificate:Known Trusted CALocal CASelf-Signed







TYPES OF SSL CERTIFICATES

DOMAIN VALIDATION

- Encryption
- Validation of domain control
- Padlock in browser Issued in minutes

ORGANIZATION VALIDATION

- Authentication of organization
- Proof of applicant's right to request cert for domain
- Organization details in Certificate Info

EXTENDED VALIDATION

- Stringnet,
- industry-standardized authentication of organization
- Business-beneficial green address bar in browser

A Domain Validated SSL Certificate (DV SSL) co 256-bit encryption ar and mobile browsers. An Organization Validation

An Organization Validation assurance SSL certificate company/business/organiz

Extended Validation SSL Certificates offer a top-notch level of safety and security that ultimately enhances customer confidence.















TYPES OF SSL CERTIFICATES



Wildcard SSL Certificate

A Wildcard SSL Certificate is designed to secure a domain name along with an unlimited number of sub-domains, which means a user can protect multiple sub-domains under a single certificate.



Multi-Domain (SAN) SSL Certificate

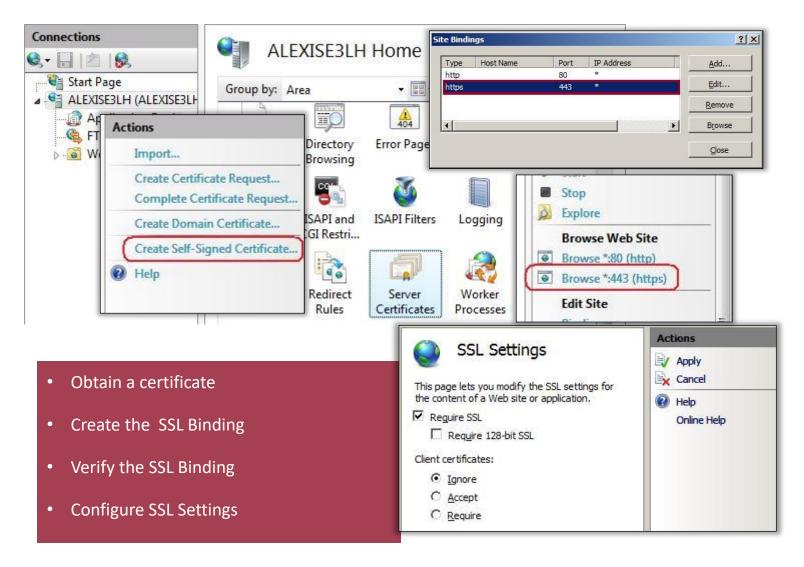
Multi-domain (SAN) is a built-in feature that comes with an SSL certificate. This lets users secure multiple domains under a single certificate.



Multi-Domain Wildcard SSL Certificate

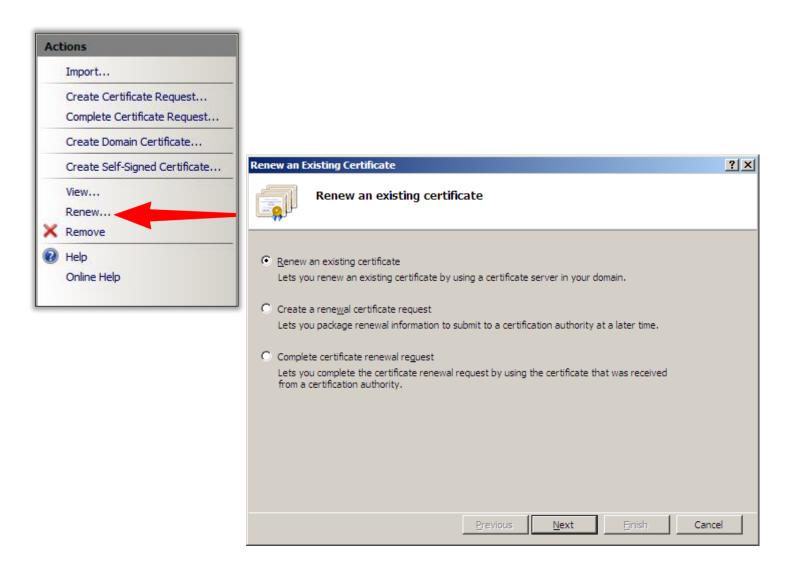
A Multi-Domain Wildcard SSL Certificate is fabricated with combined features of both wildcard and multi-domain SSL certificates.

REQUESTING SSL CERTIFICATES



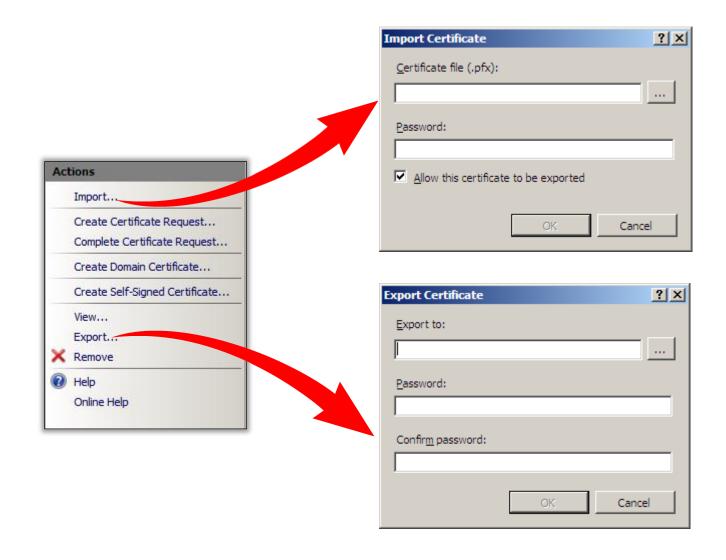


RENEWING SSL CERTIFICATES





IMPORTING AND EXPORTING CERTIFICATES







Module 6 -

IIS MONITORING

INSTALL MONITORING COMPONENTS

- Logging Tools
- Request Monitor
- Tracing
- Custom Logging

HOW TO TROUBLESHOOT SLOWNESS

- Browse to (slow) website1.com
- Open IIS Manager → Server → Worker Process
 - Review the time elapsed.

Note: A simple page request should take no longer than 1 second





LOGGING TYPES

FAILED REQUESTS TRACING

- Open IIS Manager → Server → Failed request tracing → Add
 → Choose all → All Content
- Choose when will the IIS create the log
- We will choose code 401 and 2 seconds → All providers
- Go to IIS website1.com → Edit Site Tracing → Enable
- Review trace log

LOGGING IN IIS

Open IIS Manager → Server → Logging

Is logging activated? How do we disable/enable it?

- Review Select Fields
- Review logging stored folder.
- Review logs

ADVANCED LOGGING

Open IIS Manager → Server → Web installer → Advanced logging → Install

Do you see it after you installed it in IIS Manager?

- Add log Definition → Enable
- Choose: Time UTC+Local+Taken, Status, Site Name, Server IP, Referrer,
 CPU, User Agent
- Remember to click Apply!
- Review log folder and review log



PERFORMANCE MONITORING TOOL

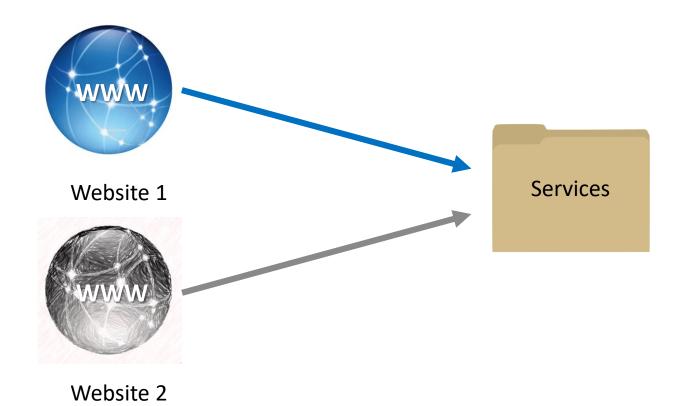
- Click on Start → Search Perfmon → Click on Performance Monitor
 What does Perfmon monitor by default?
- Add the following counters: CPU (default), Memory: % Committed Bytes
 → OK
- You can change the color of the lines
- Add the following:
 - ASP.NET Applications → Request Execution Time + Request failed + Requests/sec
 - NET CLR Exceptions → # of exceps thrown
 - NET CLR Memory → GC counters (optional, not relevant for now)
- It is possible to change the report type



Module 7 -

FTP AND ADMINISTRATION

WHAT IS A VIRTUAL FOLDER?





ADMINISTER WITH POWERSHELL

POWERSHELL COMMANDS

- Open Powershell
- Get-Website
- New-Website
- New-webBinding

How do you delete a website?

