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IIS: Advanced Optimization and Best Practices

**Instructor Workbook**

**Version 10.50**

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# ****History****

## Change Management

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| **Name** | **Microsoft Subsidiary** | **Version** | **Date** | **References** |
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| Laurent VAN ACKER | Microsoft France | 8.52 | 01/01/1970 | Some updates … |
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## Second Reading

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| John DOE | Microsoft France | 1.0 |  |

## Thanking

I’d like to thank the following people:

* John DOE (PFE) for reviewing the initial version of this workbook.
* Jane DOE for the precisions about …
* John SMITH (SE) and Jane DOE (EE) for the precisions about …

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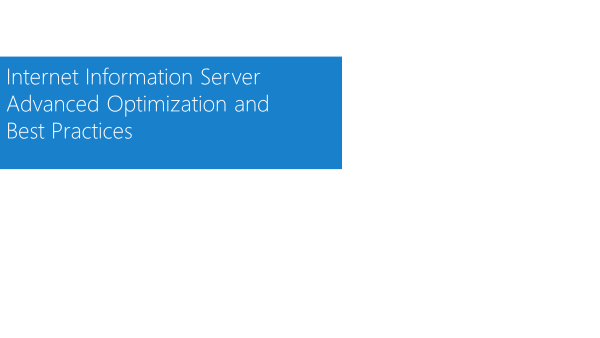
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# Internet Information Server Best Practices



# Instructor: Prerequisites

**Note(s) for the trainer:**

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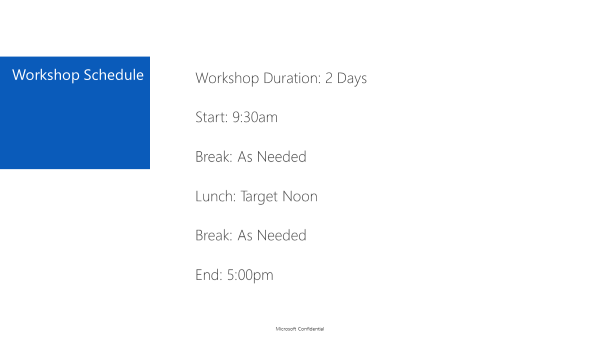
# Meet your trainer



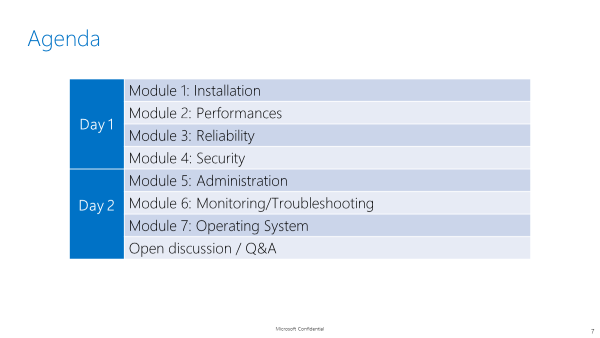
# Introductions



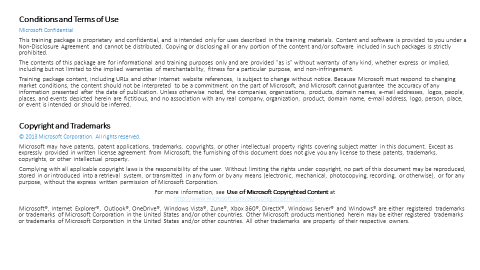
# Workshop Schedule



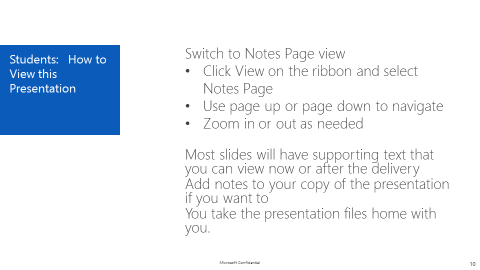
# Agenda



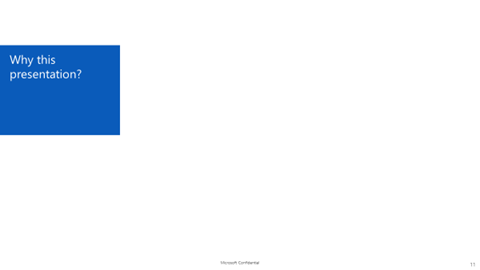
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# Why this presentation?



### Notes

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### References

Best Practices Analyzer for Internet Information Services

<http://technet.microsoft.com/en-us/library/dd378819(v=ws.10)>

IIS Best Practices by Cenk Iscan

<https://aka.ms/iisbestpractices>

Clint Huffman's Windows Troubleshooting in the Field Blog

<http://blogs.technet.com/b/clinth/>

Performance Analysis of Logs (PAL) Tool

<http://pal.codeplex.com>

Perfmon Log Translator (PLT)

<https://laurentvanacker.com/index.php/2019/11/13/plt/> s

Free ebook: Introducing Windows Server 2012

<http://blogs.msdn.com/b/microsoft_press/archive/2012/06/04/free-ebook-introducing-windows-server-2012.aspx>

Free ebook: Introducing Windows Server 2012 R2

<https://download.microsoft.com/DOWNLOAD/4/8/A/48A3ADA5-063D-4C7F-AA11-F9A3AE8C8B55/MICROSOFT_PRESS_EBOOK_INTRODUCING_WINDOWS_SERVER_2012_R2_PDF.PDF>

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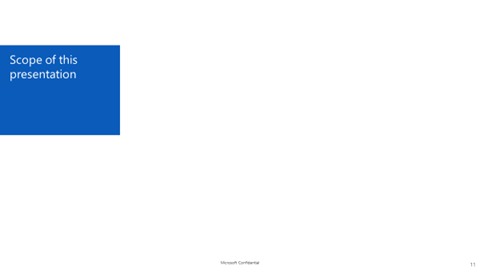
<https://info.microsoft.com/rs/157-GQE-382/images/IntroducingWindowsServer2016_ebook.pdf>

Securing Microsoft IIS  
<https://www.cisecurity.org/benchmark/microsoft_iis/>

Windows Server 101: Hardening IIS via Security Control Configuration

[https://techcommunity.microsoft.com/t5/itops-talk-blog/windows-server-101-hardening-iis-via-security-control/ba-p/329979](https://nam06.safelinks.protection.outlook.com/?url=https%3A%2F%2Ftechcommunity.microsoft.com%2Ft5%2Fitops-talk-blog%2Fwindows-server-101-hardening-iis-via-security-control%2Fba-p%2F329979&data=02%7C01%7CLaurent.VanAcker%40microsoft.com%7Ca7729215916349aa041208d7f09299c0%7C72f988bf86f141af91ab2d7cd011db47%7C1%7C0%7C637242385185866023&sdata=zd5Fv7R2pWPlhxPTqgmTjs4jK3YjyyWPpyQCz96GfvM%3D&reserved=0)

# Scope of this presentation



### Notes

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### References

What's New in IIS 7.5?

<https://technet.microsoft.com/library/dd939979(v=ws.10).aspx>

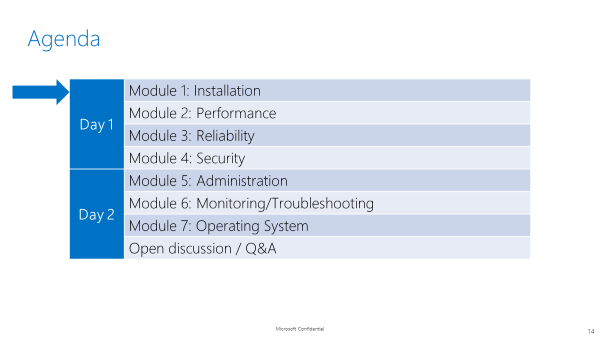
What's New in IIS 8?

<http://www.iis.net/learn/get-started/whats-new-in-iis-8>

What's New in IIS 8.5?

<http://www.iis.net/learn/get-started/whats-new-in-iis-85>

# Agenda



# Module 1: Installation



### Introduction

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## Installation



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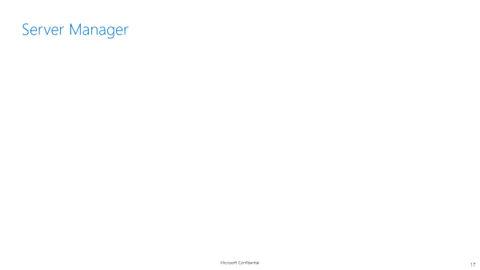
Understanding Setup in IIS 7

<http://learn.iis.net/page.aspx/130/understanding-setup-in-iis/>

How to set up your first IIS Web site

<http://support.microsoft.com/kb/323972/en-us>

## Server Manager



### Notes

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### References

Server Manager

<http://technet.microsoft.com/en-us/library/cc732131(v=ws.10).aspx>

Server Manager Technical Overview

<http://technet.microsoft.com/en-us/library/cc753319(WS.10).aspx>

How to Customize Server Manager in Windows Server 2012 and 2012 R2 – Get Creative!

<http://blogs.technet.com/b/askpfeplat/archive/2014/01/27/how-to-customize-server-manager-in-windows-server-2012-and-2012-r2-get-creative.aspx>

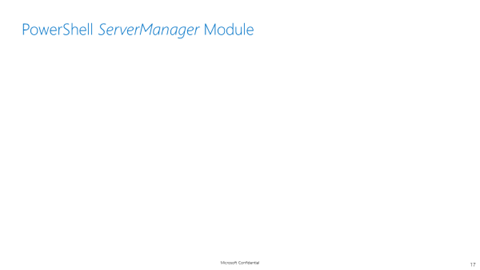
Manage Multiple, Remote Servers with Server Manager

<https://technet.microsoft.com/en-us/library/hh831456.aspx>

Server Manager Blog

http://blogs.technet.com/b/servermanager/

## PowerShell ServerManager Module



### Notes

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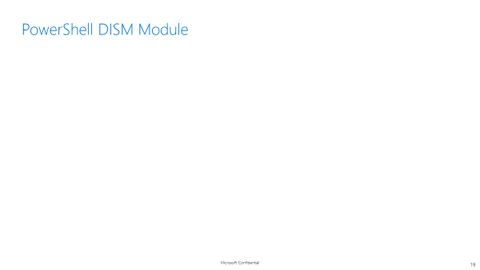
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### References

Server Manager Command-line Tools

<http://technet.microsoft.com/en-us/library/cc731774.aspx>

## PowerShell DISM Module



### Notes

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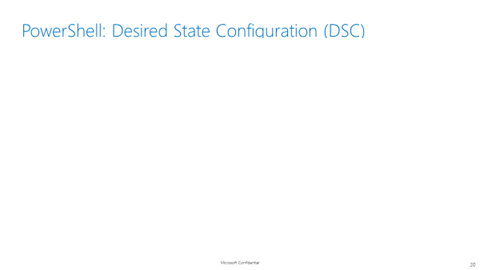
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### References

Use DISM in Windows PowerShell

<https://technet.microsoft.com/en-us/library/hh825010.aspx>

## PowerShell: Desired State of Configuration



### Notes

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### References

xWebAdministration Module – PowerShell Desired State Configuration Resource Kit

<https://gallery.technet.microsoft.com/xWebAdministration-Module-3c8bb6be>

The DevOps Collective, Inc.

<https://leanpub.com/u/devopscollective>

Getting Started with PowerShell Desired State Configuration (DSC)

<https://mva.microsoft.com/en-US/training-courses/getting-started-with-powershell-desired-state-configuration-dsc--8672>

## Best Practices Analyzer



### Notes

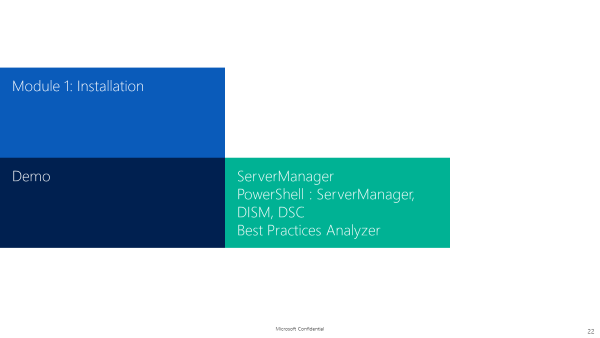
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### References

Best Practices Analyzer for Internet Information Services

<http://technet.microsoft.com/en-us/library/dd378819(v=ws.10)>

## Demonstration: Installation: IIS Server Setup



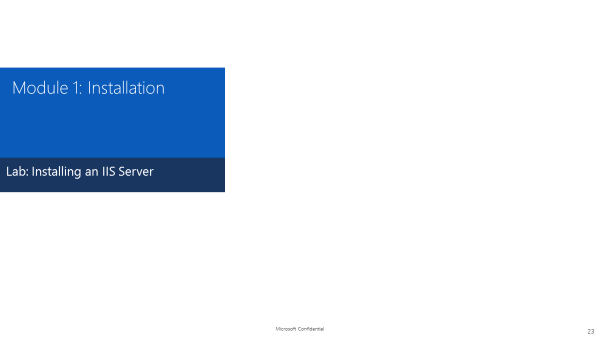
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**Note(s) for the trainer:**

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## Lab: Installing an IIS Server



**Time: 30 min (on IIS01)**

Login: Administrator – Password: P@ssw0rd

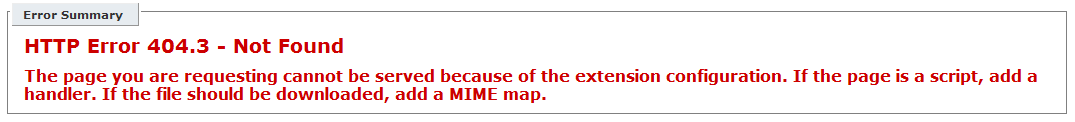
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To achieve this lab you have to do the following tasks:

* Step #1
* Step #2
* Step #3

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* Step #4
* Question #1



* Question #2

Answer: Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

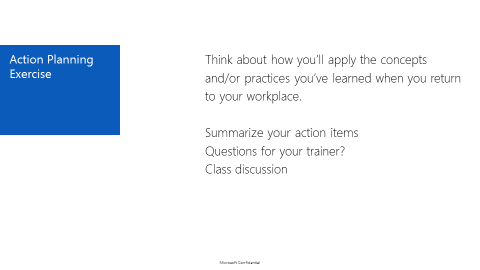
* Question #3

Answer: Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

* Step #5
* Step #6
* Question #4

Answer: Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

## Action Planning Exercise



When you return to your workplace, you‘ll want to use the concepts and practices you‘ve learned to positively impact your IT environment. In this exercise you‘ll think about what you‘ve learned and create action items that you can follow up on when you return to your workplace.

### Step 1: Summarize Your Action Items (5 Minutes)

How can you apply what you‘ve learned to your workplace?

|  |  |
| --- | --- |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |

### Step 2: Questions for your trainer? (5 Minutes)

Record any questions you have about accomplishing the Action Items you listed above. The trainer will allow time for discussion before moving to the next module.

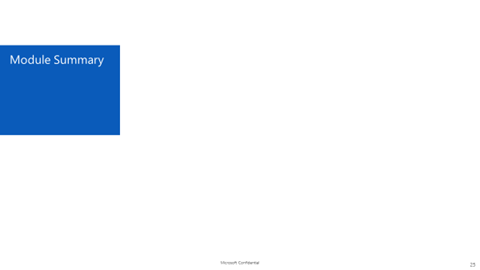
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### Step 3: Class Discussion

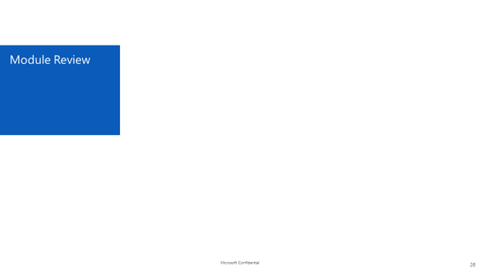
Notes:

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## Module Summary



## Module Review



Take a few minutes to answer the questions on the above slide.

## Module Review (Answers)

