# Install IIS8 on Windows 2012 Server

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### **Building Our Own Web Server**

We can build our own web server by utilizing the Internet Information Services (IIS) Manager which we will load and setup on the Windows 2012 Server.



# **Setup Security Policies**

To add a new role such as Internet Information Services on the Windows 2012 Standard Server, we select the Server Manager button from the Task Bar and select Manage from the Dashboard. From the list we choose Add Roles and Features.



<b>B</b>	Server Manager			
🕞 🕘 🕌 애 Dashb	Dard • 🕝   🚩 Manage Tools View Help			
🔛 Dashboard	WELCOME TO SERVER MANAGER  Remove Roles and Features  Add Servers			
Local Server All Servers	1 Configure this local s Create Server Group Server Manager Properties			
<ul><li>Image: AD DS</li><li>Image: BNS</li><li>Image: Biller and Storage Services</li></ul>	QUICK START     2     Add roles and features       3     Add other servers to manage       WHAT'S NEW     4     Create a server group			
	LEARN MORE Hide			
	ROLES AND SERVER GROUPS Roles: 3   Server groups: 1   Servers total: 1			
	Image AD DS     1       Image AD DS     1			

### **Before You Begin**

Before we add a role to Windows the 2012 Standard Server, we will want to have a smart password on our administrator account, to configure our network connections with a static IP address and we want to have the most current Service Packs and Windows Updates loaded. If this is done, then we can go ahead press the and Next command button.

2	Add Roles and Features Wizard
Before you begin Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	Add Roles and Features Wizard       X         DESTINATION SERVER charm2.cha
Results	<ul> <li>Network settings, such as static IP addresses, are configured</li> <li>The most current security updates from Windows Update are installed</li> </ul>
	If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.
	To continue, click Next.
	Skip this page by default
	< Previous Next > Install Cancel

# Installation Type

Then we opt for the installation type which is either Role based or Remote Desktop Services Installation. For a stand alone server, we will choose the Role based option.

Press the Next button to continue.

<b>B</b>	Add Roles and Features Wizard		
Select installatior	type DESTINATION SERVER charm2.charm.local		
Before You Begin Installation Type	Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).		
Server Selection	<ul> <li>Role-based or feature-based installation</li> <li>Configure a single server by adding roles, role services, and features.</li> </ul>		
Features Confirmation	<ul> <li>Remote Desktop Services installation         Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based         or session-based deskton deployment.     </li> </ul>		
Results			
< Previous Install Cancel			

#### **Select Destination Server**

Now we will select a server from the server pool. This can be a physical or virtual server. We opt to choose a server from the server pool and we highlight our server name from the list.

Press the Next button to advance.

<b>b</b>	Add Roles and Features Wizard			
Select destination server				
Before You Begin Select a server or a virtual hard disk on which to install roles and features.				
Installation Type	Select a server from the server pool			
Server Selection	Select a virtual hard disk			
Server Roles	Server Pool			
Features	Eitar			
Confirmation				
Results	Name IP Address Operating System			
	charm2.charm.local 192.168.10.231 Microsoft Windows Server 2012 Standard			
	1 Computer(s) found This page shows servers that are running Windows Server 2012, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.			
	< <u>P</u> revious <u>N</u> ext > <u>I</u> nstall Cancel			

### Select Server Role

The Add Roles and Features Wizard window shows the multitude of functions a 2012 server can provide. We annotate the Web Server (IIS) checkbox and press the Next button.

A smaller dialogue box will appear and we then press the Add Features button on that pop up window.



# Web Server Role Checked

The Windows Deployment Services role is now checked on the roles list and we push the Next button to continue.

<b>B</b>	Add Roles and Features Wizard	_ <b>D</b> X		
Select server roles Before You Begin	Select one or more roles to install on the selected server.	DESTINATION SERVER charm4.charm.local		
Installation Type	Roles	Description		
Server Selection Server Roles	Active Directory Rights Management Services     Application Server	Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.		
Features	DHCP Server			
Web Server Role (IIS)	DNS Server (Installed)			
	Fax Server      File And Storage Services (Installed)			
Results	<ul> <li>P Prile And Storage Services (Installed)</li> <li>Hyper-V</li> <li>Network Policy and Access Services</li> <li>Print and Document Services</li> <li>Remote Access</li> <li>Remote Desktop Services</li> <li>Volume Activation Services</li> <li>Volume Activation Services</li> <li>Web Server (IIS)</li> <li>Windows Deployment Services</li> <li>Windows Server Update Services</li> </ul>	Activate Windows		
< <u>P</u> revious <u>N</u> ext > <u>Windows.</u> Cancel				

#### **Features Window**

Next, the Features window comes up and we will not add any features at this time.

Press the Next button to go on.

<b>a</b>	Add Roles and Features Wizard	_ <b>D</b> X
Select features	Select one or more features to install on the selected server.	DESTINATION SERVER charm4.charm.local
Installation Type	Features	Description
Server Selection Server Roles Features Web Server Role (IIS) Role Services	INET Framework 3.5 Features      INET Framework 4.5 Features (Installed)      Background Intelligent Transfer Service (BITS)      BitLocker Drive Encryption      BitLocker Network Unlock      BranchCache	.NET Framework 3.5 combines the power of the .NET Framework 2.0 APIs with new technologies for building applications that offer appealing user interfaces, protect your customers' personal identity information, enable seamless and secure communication, and provide
Results	<ul> <li>Client for NFS</li> <li>Data Center Bridging</li> <li>Enhanced Storage</li> <li>Failover Clustering</li> <li>Group Policy Management (Installed)</li> <li>Ink and Handwriting Services</li> </ul>	the ability to model a range of business processes.
	Internet Printing Client IP Address Management (IPAM) Server	Activate Windows Go to Action Center to act

#### Server Manager

We should review the Introduction to Web Server (IIS) and then depress the Next button.

<b>b</b>	Add Roles and Features Wizard
Web Server Role	(IIS) DESTINATION SERVER charm4.charm.local
Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS)	<ul> <li>Web servers are computers that let you share information over the Internet, or through intranets and extranets. The Web Server role includes Internet Information Services (IIS) 8.0 with enhanced security, diagnostic and administration, a unified Web platform that integrates IIS 8.0, ASP.NET, and Windows Communication Foundation.</li> <li>Things to note:</li> <li>Using Windows System Resource Manager (WSRM) can help ensure equitable servicing of Web server traffic, especially when there are multiple roles on this computer.</li> </ul>
Role Services Confirmation Results	<ul> <li>The default installation for the Web Server (IIS) role includes the installation of role services that enable you to serve static content, make minor customizations (such as default documents and HTTP errors), monitor and log server activity, and configure static content compression.</li> </ul>
	More information about Web Server IIS Activate Windows Go to Action Center to act
	< <u>P</u> revious <u>Next</u> Cancel

#### **Select Roles Services**

We can accept the basic HTTP features or we can augment the services with additional application and diagnostic software. After adding more services, we push the Next button to advance.

<b>B</b>	Add Roles and Features Wizard	_ <b>□</b> X	
Select role service	S	DESTINATION SERVER charm4.charm.local	
Before You Begin Installation Type Server Selection	Select the role services to install for Web Server (IIS) Role services	Description	
Server Roles Features Web Server Role (IIS)	▲ ♥ Web Server      ✓ Common HTTP Features      ♥ Default Document      ♥ Directory Browsing	HTML Web sites and optional support for ASP.NET, ASP, and Web server extensions. You can use the Web Server to host an internal or	
Role Services Confirmation Results	<ul> <li>✓ HTTP Errors</li> <li>✓ Static Content</li> <li>☐ HTTP Redirection</li> </ul>	external Web site or to provide an environment for developers to create Web-based applications.	
	WebDAV Publishing     ✓ Health and Diagnostics     ✓ HTTP Logging     Custom Logging		
	Logging Tools     ODBC Logging     Request Monitor		
< Previous Next >			

### **Confirm Installation Selections**

Before the installation begins, we can see a summary of our choices and if we need to change anything, we can return to the specific dialogue box using the Previous button. If we agree with all of the settings, we should choose the Install button.

2	Add Roles and Features Wizard	_ <b>D</b> X
Confirm installatic	on selections	DESTINATION SERVER charm4.charm.local
Before You Begin	To install the following roles, role services, or features on selected server, click Insta	all.
Installation Type	Restart the destination server automatically if required	
Server Selection	Optional features (such as administration tools) might be displayed on this page b	ecause they have
Server Roles	been selected automatically. If you do not want to install these optional features, c their check boxes.	lick Previous to clear
Features		
Web Server Role (IIS)	Web Server (IIS)	<u>^</u>
Role Services	Management Tools	
Confirmation		
Results	Web Server	
	Default Document	=
	Directory Browsing	
	HTTP Errors	
	Static Content	
	Health and Diagnostics	
	HTTP Logging	
	Performance	~
	Export configuration settings Specify an alternate source path	
	< <u>P</u> revious <u>N</u> ext > Inst	all Activ Cance Windo

#### **Installation Progress**

For several minutes, the Web server will be installed. When the process is complete, we close the Add Roles Wizard and the Server Manager windows.

Before You Begin	View installation progress	
Installation Type	Feature installation	
Server Selection		
Server Roles	Installation started on charm4.charm.local	
Features	Web Server (IIS)	^
Web Server Role (IIS)	Management Tools	
	Web Server	
Confirmation	Common HTTP Features	_
Results	Default Document	=
	HTTP Errors	
	Static Content	
	Health and Diagnostics	
	HTTP Logging	
		~
	You can close this wizard without interrupting running tasks. View task progress or open	this

#### **Installation Results**

The Internet Information Services (IIS) is now successfully installed. We can close the Add Roles wizard.



### Open the Internet Information Services Manager Console

We now open the Internet Information Services Manager Console. We will expand the WDS server on charm.

য্য Inter	net Information Services (IIS) Manager	_ <b>D</b> X
€ CHARM4 ►		🐱 🛛 🟠 🔞 🗸
<u>F</u> ile <u>V</u> iew <u>H</u> elp		
Connections	RM4 Home	Actions
	initia home	Open Feature
Start Page	• 🤿 Go - 👾 Show <u>A</u> ll   Group by:	Manage Server
IIS	<b>^</b> ^	Start
		Stop
Authenticati	Compression Default Directory	View Application Pools
on	Document Browsing	View Sites
404	2 👚 🧻 🖡	<ul> <li>Get New Web Platform Components</li> </ul>
Error Pages	Handler HTTP Logging Mappings Respon	Help
		Online Help
MIME Types	Modules Output Request Caching Filtering	
	<b>2</b>	
< III > Features View	🖊 🚰 Content View	
Ready	Shows the features for the selected item	• <u></u> .:

### Add Web Page

We continue to expand the folders in the left pane. We right click on Sites and we choose the Add Web Site from the popup menu.



#### Add Web Site

For the Site name, we type "Ohiodigitalart".

Add Website	? X
Site name:       Application pool:         Ohiodigitalart       Ohiodigitalart       Select         Content Directory       Physical path:          Pass-through authentication        Test Settings	
Binding   Iype: IP address:   http V     All Unassigned     Host name:   Example: www.contoso.com or marketing.contoso.com	
Start Website immediately	Cancel

### Browse for the Physical Path

We placed the Ohio digital art folder in the Inetpub folder on the web server's C: drive. We show the path to the Ohio digital art folder by picking the 3 dotted button and browsing for our ohiodigitalart folder.

Browse For Folder	Binding
Select a directory for the application.	http
	<u>H</u> ost n
DFSRoots ^	Examp
⊿ 퉲 inetpub	
D 📙 custerr	
🛛 🕒 history 🔤	
📕 logs 👘	
🌗 ohiodigitalart	Start W
Þ 퉬 temp	
\mu www.root	
Perfl.ogs 🗸 🗸	
Make New Folder OK Cancel	

Add Website	? X
Site name: Application pool:	_
Content Directory     Physical path:        C:\inetpub\ohiodigitalart        Pass-through authentication	
Binding	
Iype:     IP address:     Port:       http     Image: All Unassigned     80       Host name:     Image: All Unassigned     100	
Example: www.contoso.com or marketing.contoso.com	
☑ Start Website i <u>m</u> mediately	
ОК	Cancel

### Permissions for the Web Folder

х

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Apply

Permissions for ohiodigitalart

C:\inetpub\ohiodigitalart

Security

Object name:

On the folder's Security Tab, add full control for Local Service and Network Service. Also add IIS IUSRS as read and execute.

	<b>.</b>	ohiodig	italart Properties	s	*	roup or user names:		
ohiodigitalart Properties	x	aring Security	Previous Versions	Customize	_	SYSTEM		
General Sharing Security Provinue Versions Custom	ize	e: C:\inetpub'	\ohiodigitalart			🍇 Administrators (CHARM\Adm	inistrators)	
Ceneral Shaning Coosins Previous Versions Custom	120	er names:				& LOCAL SERVICE		
Object name: C:\inetpub\ohiodigitalart		ORK SERVICE		^	1	Book (CHARM\Users)		
Group of Light pamer:		strators (CHARM	NAdministrators)			🚜 TrustedInstaller		
Group of user names.		(CHARM\Users)	)	~			L L L	Demous
	^	SRS (CHARM\I		>			A <u>a</u> a	<u>R</u> emove
Regional (christian de 1997)		permissions, clic	k Edit.	<u>E</u> dit	ī 📗	ermissions for LOCAL SERVICE	Allow	Deny
<	>	for NETWORK			- II	Full control	>	
To change permissions, click Edit			Allow	Deny	a 📗	Modify	✓	
	dit	rol	~	^		Read & execute	✓	
Permissions for IIS IUSRS Allow	Denv	wegite	~	=		List folder contents	✓	
Eull control		r contents	~			Read	<b>~</b>	
Modify			~		11			
Read & execute	=		~	~	·]	eam about access control and p	emissions	
List folder contents 🗸		permissions or a	dvanced settings,	Advanced	1	ОК	Cancel	App
Read 🗸		icea.	L		- 6			
Write	~	t access control	and permissions					
For special permissions or advanced settings, click Advanced.	anced	(	DK Cancel	Apply				
OK Cancel	Apply							

# **Binding Data**

We bind the 192.168.100.2 IP address to ohio digital art website on port 80 and type the host name as www.ohiodigtialart.com.

We keep the start web site immediately checkbox annotated. We press OK to close the Add Web Site window.

Add Website					
Site name:     Application pool:       Ohiodigitalart     Ohiodigitalart					
Content Directory         Physical path:         C:\inetpub\ohiodigitalart         Pass-through authentication         Connect as         Test Settings					
Binding       Ippe:       IP address:       Port:         http       192.168.100.2       80         Host name:       80         www.ohiodigtialart.com       80         Example: www.contoso.com or marketing.contoso.com       80					
✓ Start Website immediately	ance	I			

# Default Document

We pick the Default Document icon to establish the name of the web page that will open when people visit the <u>www.ohiodigtialart.com</u> website or search for the 192.168.100.2 IP address.



# Identifying the Index Page

We delete the other documents and keep the index.htm page. This is the page that is opened when the website is visited.



#### Checking the Website with the Web Browser

We can type 192.168.100.2 in the address bar of the Internet Explorer window and the Ohio Digital Art homepage will We test appear. computers on our network and they get the same results.

