Deploy ASP.NET Application to IIS

This blog guides you how to deploy your ASP.NET/MVC application to IIS web server. And make it public to internet. There are totally 4 steps:

- Install required components in IIS.
- Publish files to IIS: copy files to server and create website in IIS.
- Add Port Exception to Windows Firewall.
- Assign public IP Address to your website.

1. Install required components in IIS

Control Panel-> Programs and Features

Control Panel\All Control Panel Items\Programs and Features

← → → ↑ 👩 → Control Panel → All Control Panel Items → Programs and Features

File Edit View Tools Help

Control Panel Home

View installed updates

Uninstall or change a program

To uninstall a program, select it from the list and then click Uni

•	Turn Windows features on or		
	off	Organize 🔻	
	Install a program from the network	Name	Publisł
		🖬 7-Zip 15.06 beta (x64)	Igor Pa
		③ 360随身WiFi	360互目
		🕹 Adobe Acrobat Reader DC	Adobe
		🛃 AMD Catalyst Control Center	AMD
		Android SDK Tools	Google

Select IIS(Internet Information Services)



2. Publish files to IIS

2.1 In Visual Studio, select project - > Publish...



2.2 Create a new profile

Publish Web		?	\times
Publish Web			
Profile Connection Settings Preview	CoursePlayer Mgnage Profiles Select a publish target Microsoft Azure App Service Microsoft Azure API Apps (Preview) Import Gustom O More Options Find other hosting options at our web hosting gallery		
	< Prev Next > Publish	Cl <u>o</u> se	

2.3 Connection, configure server and website. Here we choose the default website.

Publish Web			?	×
Publish Web				
Profile	CoursePlayer			
Connection Settings	Publish <u>m</u> ethod:	Web Deploy	*	
Preview	S <u>e</u> rver:	localhost		
	Si <u>t</u> e name:	Default Web Site/CoursePlayer		
	User <u>n</u> ame:			
	Pass <u>w</u> ord:	Save password		
	Destination UR <u>L</u> :	http://localhost/courseplayer		
		<u>V</u> alidate Connection		
		< Prev Next > Publish	Cl <u>o</u> se	

2.4 Settings, choose 'Release'.

Publish Web		?	×
Publish Web			
Profile	CoursePlayer		
Connection Settings Preview	<u>C</u> onfiguration: Release → File Publish Options		~
	Oatabases		
	< Prev Next > Publish	Cl <u>o</u> se	e

2.5 Preview, check what files are to be deployed.

olish Web					?	×
Publish Web						
Profile	CoursePlayer		¥			
Connection	localhost: Default We	b Site/CoursePlayer	St	earch		
Settings	\checkmark	Name	Action	Date modified	Size	
		Charles Da	eview			
		Start Pr				
		Start Pr				

2.6 After publish, all of files are copied to 'C:\inetpub\wwwroot\CoursePlayer'.

$\leftarrow \rightarrow \checkmark \uparrow \square$ > This PC > Sy	/stem (C:) > inetpub > www.root > Cou	rsePlayer		
💱 Dropbox	^ Name ^	Date modified	Туре	Size
 One Drive 	204304	5/9/2016 10:26	File folder	
Chebrive	bin	5/9/2016 10:05	File folder	
💻 This PC	Content	5/9/2016 10:05	File folder	
Desktop	fonts	5/9/2016 10:05	File folder	
Documents	scripts	5/9/2016 10:05	File folder	
	Views	5/9/2016 10:05	File folder	
	ApplicationInsights.config	5/9/2016 09:03	XML Configuratio	5 KB
J Music	🔊 Global.asax	5/9/2016 08:40	ASP.NET Server A	1 KB
Pictures	🚯 packages.config	5/9/2016 08:40	XML Configuratio	3 KB
Videos	💿 sliderbar.html	5/9/2016 08:40	Chrome HTML Do	3 KB
🖌 🏪 System (C:)	💿 videojs.html	5/9/2016 08:40	Chrome HTML Do	2 KB
> AMD	🖹 Web.config	5/9/2016 10:05	XML Configuratio	3 KB

Your web browser is opened automatically and accesses your website.



3. Add Port Exception to Firewall

- 3.1 Control Panel -> Windows Firewall
- 3.2 Advanced setting

Control Panel\All Control Panel Ite	ms\Windows Firewall				
$\leftarrow \rightarrow \lor \uparrow \blacksquare \lor$ Control Par	el > All Control Panel Items > Windows	Firewall			
File Edit View Tools Help					
Control Panel Home	Help protect your PC with Wi	ndows Firewall			
Allow an app or feature through Windows Firewall	Allow an app or feature Therewall can help prevent hackers or malicious software from gaining access to your PC through through Windows Firewall				
🗣 Change notification settings	Private networks	Not connected \odot			
Turn Windows Firewall on or off	Guest or public netwo	orks Connected 🔿			
 Restore defaults Advanced settings 	Networks in public places such as airp	orts or coffee shops			
Troubleshoot my network	Windows Firewall state:	On			
	Incoming connections:	Block all connections to apps that are not on the list of allowed apps			
	Active public networks:	🚟 2WIRE799			
	Notification state:	Notify me when Windows Firewall blocks a new app			

3.3 Inbound Rules -> New Rule...

PWindows Firewall with Advance	ed Security					- 🗆 ×
File Action View Help						
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Windows Firewall with Advance	Inbound Rules				Actions	
Cuthound Rules	Name	Group	Profile	Enabled ^	Inbound Rules	•
Connection Security Rules	abPhotoDMCDaemon		All	Yes	🚉 New Rule	
> 🖳 Monitoring	🔮 abPhotoDMCDaemon		All	Yes	Y Filter by Profile	+
	abPhotoWindowsUpnp		All	Yes	V Filter by State	
	abPhotoWindowsUpnp		All	Yes		
	AcerPortalccd		All	Yes	Y Filter by Group	•
	AcerPortalccd		All	Yes	View	
	S BFDLANPLAYER		Public	Yes	Q Refresh	
	S BFDLANPLAYER		Public	Yes	D. Enced Link	
	Firefox (C:\Program Files (x86)\Mozilla Fir		Private	Yes	Export List	
	Firefox (C:\Program Files (x86)\Mozilla Fir		Private	Yes	🕜 Help	
	🔮 maLauncher		All	Yes		
	🕑 maUpdat		All	Yes		
	Ø Microsoft Lync		Public	Yes		
	Ø Microsoft Lync		Public	Yes		
	Microsoft Lync UcMapi		Public	Yes		
	Ø Microsoft Lync UcMapi		Public	Yes		

3.4 Rule Type

🔗 New Inbound Rule Wizar	d X
Rule Type	
Select the type of firewall rule to	xeate.
Steps:	
a Rule Type	What type of rule would you like to create?
Protocol and Ports	
Action	Program Rule that controls connections for a program.
 Profile Name 	Port
· Hullo	Rule that controls connections for a TCP or UDP port.
	○ Predefined:
	AllJoyn Router 🗸
	Rule that controls connections for a Windows experience.
	Custom Custom rule.
	(Barly News) Consel
	< <u>Back</u> <u>Next</u> > Cancel

3.5 Protocol and Ports

PNew Inbound Rule Wizard	ł		×
Protocol and Ports Specify the protocols and ports to	which this rule applies.		
Steps: Protocol and Ports Action Profile Name	Does this rule apply to TCP or U	DP? ots or specific local ports? 80 Example: 80, 443, 5000-5010 < Back Next > Cancel	

3.6 Action

Prew Inbound Rule Wizard		×
Action		
Specify the action to be taken wh	en a connection matches the conditions specified in the rule.	
Specify the action to be taken when steps: Paule Type Protocol and Ports Action Profile Name	en a connection matches the conditions specified in the nule. What action should be taken when a connection matches the specified conditions? Output Description This includes connections that are protected with IPsec as well as those are not. Output Description Allow the gonnection if it is secure This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Cuttorings Output Block the connection	
	< <u>B</u> ack <u>N</u> ext > Cancel	

3.7 Profile



3.8 Name

Provident and the Wizard Rule Wizard	1	×
Name Specify the name and description	of this rule.	
Steps:		
Rule Type		
Protocol and Ports		
Action	Manaa	
Profile	TCP	
Name		
	< <u>B</u> ack Einish Cancel	4

After the above steps, your machine is exposed to the outside world.

4. Assign Public IP address to your website.

4.1 In IIS, add Binding to web site

Services (IIS) Manager		- 🗆 X
← → ④ ► CACSWS13 ► Sites ►	Default Web Site 🔸	😰 🖂 🚱 🕶
<u>File View H</u> elp		
Connections Connections Connections Connections CACSWS13 (CSTCIS\R2HUANG) CACSWS13 (CSTCIS\R2HUANG) CACSWS13 (CSTCIS\R2HUANG) CACSWS13 (CSTCIS\R2HUANG) CACSWS13 (CSTCIS\R2HUANG) CACSWS12 CACSW	Oefault Web Site Home Filte: 	Actions Actions Actions Content of the importance of the import

4.2 Set IP Address and Port.

If you choose another port, you must add the port number to firewall exception, refer to step 3.

📬 Internet Information Services (IIS) Manager	- 0	×
← → (● → CACSWS13 → Sites → De	efault Web Site 🔸 🔤 🔯 🔯	•
<u>F</u> ile <u>V</u> iew <u>H</u> elp		
Elle View Help Connections View AcSSWS13 (CSTCIS/RZHUANG) Application Pools Application Pools Application Pools DataService O DataService O DataService O CoursePlayer O OriginalHtmlPlayer O OriginalServer O Signalsever O Wideo	Actions Performed Set Provide Site Home Filter:	
Ready	Caching Filtering Authon V	G a .:
		B

4.3 Access website with ip address, don't miss the last slash.



4.4 Try this address in another machine.