# 2011



# **USER GUIDE**

**Azure Factory** 

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In this article, you will learn how to set up your Code On Time application with SQL Azure as a backend.

#### Setting up a Windows Azure Account

The first thing you have to do is head over to <u>http://www.microsoft.com/windowsazure/free-trial/</u> and press *Get the free trial!* Sign in with your Windows Live ID, or sign up if you don't have one.



Next, you will need to enter your contact information for *Windows Azure*. Accept the conditions and enter your credit card information. No charges will be made. Finally, accept the *Online Subscription Agreement* and press purchase. You will have to wait up to 15 minutes for your subscription to become enabled.



#### Setting up your Server

Navigate to <u>http://windows.azure.com</u>. You will need to enter service administrator information – this is the person managing the subscription. Confirm, and navigate to the server *Management Portal*. In the bottom left corner, select *Database*.

You will first need to create a server. Select your subscription and press Create under Server.



Select a region for your server, and specify the administrator account.

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Accourt	Azure server.	par of your exe	Subscription-1						
Servic	Administrator Login		Account Administrator						
Status	-,		Dennis.Bykkov@officeliveusers.com						
	Password:		Service Administrator						
Server Name Adm	Repeat Password:		Dennis.Bykkov@officeliveusers.com						
a7xke2fa8y sqlar			Status						
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Service Bus, Access Control & Caching			rtal © 2010 Microsoft			Help and Support Feedback

Next, specify a firewall rule to allow your IP to access the server.

Press *Finish*, and you will have a server listed under your subscription.

## **Creating a Database**

Select your subscription and press Create under Database.

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🔺 🧰 Subscriptions	Subscription Home: Su	ibscription-1				> Properties
Subscription-1						Subscription ID
		ription Information				12442ab9-b3f5-4081-b074-d88c2c
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	Account	administrator: De	nnis.Bykkov@officeliveuse	ers.com		Subscription-1
	Service :	administrator: De	nnis.Bykkov@officeliveuse	ers.com		Account Administrator
	Status:	Re	ady			Dennis.Bykkov@officeliveusers.com
		All reg	ons			Service Administrator
FT Home	Server Name 🔺 🛛 Admini	istrator User Region	Fully Qualified S	erver Name	Dennis.Bykkov@officeliveusers.com	
Home	a7xke2fa8y sqladm	nin South Central	JS a7xke2fa8y.data	abase.windows.net		Status
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New Manage User Certificates Managene Subscription	ent Create Drop Server	Reset Admin Password	Create	Drop Test Connectivity Database	<b>Manage</b>	Refresh View		
<ul> <li>Subscriptions</li> </ul>	Server Home: w1cd	Bec0zk						> Properties
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	Admin		e		0			Subscription ID
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	Database Name 🔺	Editi			•			Fully Qualified DNS Name
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Give your database a name. Leave *Edition* and *Maximum size* unchanged.

Press OK, and the database will be created.

### Manage the Database

For the sake of this tutorial, we will use a database called *HR*, with two tables, *Employees* and *Jobs*. You can use the table generation tool in *Code On Time Generator* to create it. Alternatively, you can create it using the *Database Manager*. This section will explain how to use the *Database Manager* to create the tables.

Select your server from the list, and press *Manage* under *Database*.

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New Manage Certificates		Create Drop	Test Connectivity	Vanage Refresh		
Subscription	Server	Da	atabase Ma	nage the selected database wi	th Database Manager	
<ul> <li>A 🗀 Subscriptions</li> </ul>	Server Home: a7xke2	fa8y				> Properties
🔺 🔙 Subscription-1						Name
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Northwind		trator Login: sqla Firewall Rules: 2	amin			12442ab9-b3f5-4081-b074-d88c2c
						Administrator Login
		P All e	editions			sqladmin
	Database Name 🔺	Edition	Max Size	Current Size		Fully Qualified DNS Name
FT Home	master	Web	1 GB	456 KB		a7xke2fa8y.database.windows.net
Home	Northwind	Web	1 GB	2.4 MB	Region	
Hosted Services, Storage						South Central US
Accounts & CDN						Database Quota
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						2
Service Bus, Access Control & Caching						
Virtual Network						·
Ready		Take me back to the old p	ortal © 2010 f	Microsoft Corporation Privacy S	Statement Terms of Use	Help and Support Feedback 🔃

This will take you to the *Database Manager*. Enter your password and press *Connect*.

← ∰ https://manage-sn1.sql.azure.com/	agement Portal – Window 🥝 Database Manager 10.0.0.0 🛛 🗙	nt ★ ¤
	Database Manager	
	Server w1cd8ec0zk.database.windows.net	
	Database HR	
	Login cotadmin	
	Passwolu	
	() Connect	
	Terms Of Use   Privacy Statement	

On the ribbon, press *New Table*. Name the table *Jobs*, with the fields *JobID*, *Title*, and *Description*, as shown below.

									<b>X</b>
Https://manage-sn1.sql.azure.com	n/	nagement Portal – Window	<i>e</i> Database Manag	er 10.0.0.0 ×				ŵ	☆戀
Database Table			Connected to:w1cd	8ec0zk.databa	Database:HR	Logged in as:cotadmin	Support ID: FDAB8AF8	Send Feedback	<u>Logout</u>
Save Design Data New Delete Column Column									
Search	Start Page X	+dbo.Jobs x							
• Tables (1)	Schema: dbo v	Name: Jobs							
⊙ Views (0)	Column * JobID	Select type	Default Value I	s Identity? √	Is Required?	In Primary Key?			
Stored Procedures (0)	* Title	nvarchar = 50							
	* Description	ntext 🔻							
	+ Column								
v									

Press *Save* to save the table. Switch back to the *Start Page*, and press *New Table* again. This table will have the name *Employees*, and the fields *EmployeeID*, *LastName*, *FirstName*, *JobID*, *Salary*, *Notes*, *Photo*, and *HireDate* as shown below.

https://manage-sn1.sql.azure.com	/ 🎗 ד 🗟 ד 🍳 י	Management Portal – Win		e Manager 10.0.0.				
Database Table			Connected	to:w1cd8ec0zk.d	ataba Database:	HR Logged in as:cotadmir	Support ID:FDAB8AF8	Send Feedback Logout
Save Design Data Column Column								
Search	Start Page X	dbo.Jobs X 🛃	dbo.table1 x					
Tables (2)	Schema: dbo v	Name: table1						
Views (0)	Column	Select type	Default Value	Is Identity?	Is Required?	In Primary Key?		
0	* EmployeeID	int 👻		$\checkmark$	~	$\checkmark$		
Stored Procedures (0)	🗰 LastName	nvarchar = 30						
	✤ FirstName	nvarchar = 50						
	* JobID	int 👻						
	* Salary	money 🔻						
	* Notes	ntext 👻						
	🗰 Photo	image 🔻						
	* HireDate	datetime 🔻						
	+ Column							

Press *Save* to save the table. Currently, *Database Manager* does not have a tool to create foreign key relationships, so a query must be used. Switch back to *Start Page* and press *New Query*. Enter the following code to add the foreign key relationship:

```
alter table Employees
add constraint Employees_Jobs_FK
foreign key(JobID)
references Jobs(JobID)
```



Press *Execute*, and click on *Message* to confirm the success of the query.

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Database Query	Connected to:w1cd8ec0zk.databa Database:HR Logged in as:cotadmin Support ID:FDAB8AF8 Send Feedback Logout
Save New Open Query Query File Run Editing	
Search	Start Page x dbo.Jobs x dbo.Employees x 🛊 untitled1.sql x
• Tables (2)	alter table Employees add constraint Employees_Jobs_FK foreign key(JobID) references Jobs(JobID)
<ul> <li>Views (0)</li> </ul>	references Jobs(JobID)
<ul> <li>Stored Procedures (0)</li> </ul>	
	Command(s) completed successfully.

## **Generating the Azure Factory Project**

Launch Code On Time Generator, and create a new project. Select Azure Factory.



Give the project a name. In our example, we called it "HRDemo".

Create Project - Code OnTime	_ <b>D</b>
	Blog   Community ww.codeontime.com
Please enter the project name and click the Createbutton.	
New Project	
Vendor: Code OnTime LLC http://www.codeontime.com	
Azure Factory Create an Azure Cloud solution from your SQL Azure database. Includes a Web Role and class library implementing a web site with navigation system, role-b membership manager, built-in data export, reporting, and much more. Have it online in 15 minutes.	ased security,
Review a complete feature list of this project. Try a live demo now.	
Name: HRDemo	
Language: C∉ ▼	
Create	Cancel
© 2011 Code OnTime LLC. All rights reserved.	

Press Next to reach the Database Connection page. Click on the "…" button next to the Connection String to access the Connection String Assistant. You can find your server name by navigating to <a href="http://windows.azure.com">http://windows.azure.com</a> and clicking on Database. Select your subscription, and copy the Fully Qualified Server Name from the list.



Enter the server name under Server, and enter your credentials. Also enter your database name.



Add a User and Role Manager to your application by pressing Add under Membership.

SQL Server Connection - Code OnTime	
	YouTube   Blog   Community http://www.codeontime.com
Please specify SQL Server name and database.	
SQL Server Connection	
Server:	
w1cd8ec0zk.database.windows.net	
Windows authentication	
SQL Server authentication	
User name: cotadmin	
Password:	
Database:	
Northwind	
Sample Tables:	
You can popluate the application database with sample tal	ves.
Membership:	
Your application can be configured to implement user and If you own Unlimited edition they you may consider implem	
Status Add Remove	Message from webpage
Session State: It is recommended to execute Azure applications on more	
a dedicated server. If you plan to store application varial	Click OK to create tables and stored procedures required to support
need to enable support for Session State in application de	ASP.NET Membership and Role Manager in the database.
Status Add Remove	
	OK Cancel
	Cancel
7/20/2011 3:48:37 PM if test="not(file/@name='DataAquariur	n Project vml'i'
7/20/2011 3:48:37 PM test passed	na hoject xim" /
7/20/2011 3:48:37 PM end if	
7/20/2011 3:48:37 PM navigate url="\Data Aquarium\Data/	Aquarium.Start.htm?webServer2=false&splash=AzureFactory"

By default, *Azure Factory* applications will run on two instances of Compute servers, as recommended by Microsoft to ensure fault tolerance. This requires *Session State* management in your database. Install *Session State Manager* by pressing *Add* under *Session State*.

(a) SQL Server Connection - Code OnTime		×
	og   Community w.codeontime.com	
Please specify SQL Server name and database.		
SQL Server Connection		
Server:		
w 1cd8ec0zk.database.windows.net		
Windows authentication		
SQL Server authentication		
User name: cotadmin		
Password:		
Database:		
Northwind		
Sample Tables:		
You can popluate the application database with sample tables. (select)		
Membership:		
Your application can be configured to implement user and role manager based on Microsoft ASP.NET Membership.		
If you own Unlimited edition then you may consider implementing custom membership and role providers instead.		
Status Add Remove		
Session State: It is recommended to execute Azure applications on more than one role instance. Role instance is equivalent to		
a dedicated server. If you plan to store application variables in Session object of your application than you will need to enable support for Session State in application database.		
Status Add Remove	x	
Status Auu Kemove		
Click OK to create tables and stored procedures required to suppor	2	
ASP.NET Session State in application database.	cel .	_
7/20/2011 3:48:37 PM if test="notfile/@name="DataAquarium.Project x		
7/20/2011 348:37 PM test passed OK Cancer Control Cont	el	
7/20/2011 3/48/37 PM not at it "		Ļ

Press *OK* to confirm your connection string options. Press *Next* until you reach the *Reporting* page. Check the checkbox to enable reporting.



Press *Next* until you reach the *Authentication and Membership* page. If you added *User and Role manager* to your application, *ASP.NET Membership* will be automatically configured.



On the next page, enable Permalinks and Interactive History.



Continue pressing *Next* until code generation begins. Once complete, a web page will load with your generated application. The application will be running locally, but is using *SQL Azure* to access the database.

← →  ♦ http://localhost:40570/Pages/Home.aspx P ~  ♦ C ×  Ø start	× <sup>™</sup>
History   Permalink	Welcome admin, Today is Wednesday, July 20, 2011   My Account   Logout   Help <sup>^</sup>
🙀 MyCompany	
Home Jobs • Membership	Site Actions *
Home > Home	
Start	
Please select a page link in the table of contents below.	Sign in to access the protected site content.
Site Map	Instructions
Home	Two standard user accounts are automatically created when application is initialized if membership option has been selected for this application.
Employees Membership	The administrative account <b>admin</b> is authorized to access all areas of the web site and membership manager. The standard <b>user</b> account is allowed to access all areas of the web site with the exception of membership manager.
	Move the mouse pointer over the link <i>Login to this web site</i> on the right-hand side at the top of the page and sign in with one of the accounts listed below.
	Administrative account: admin / admin123%
	Standard user account: user / user123%
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## **Publishing to Azure**

Go back to Code On Time Generator. Next to the project name, press Publish.



Once publishing is complete, a folder will appear with the published files.

						x
Code OnTime	Azure Factory  HRDemo CloudApp	bin ▶ Release ▶ Publish		👻 🍫 Search Publish		Q
Organize 🔻 Include in library 👻 Shar	e with 🔻 Burn New folder					3
📕 Code OnTime 🧳	Name	Date modified	Туре	Size		
Backups	G CloudApp.cspkg	7/20/2011 4:26 PM	Service Package file	19,121 KB		
Library	ServiceConfiguration.cscfg	7/20/2011 4:25 PM	Cloud Service Con	1 KB		
Azure Factory						
\mu HR						
HRDemo AjaxControlToolkit						
🖟 bin						
2 items						

Go to <u>http://windows.azure.com</u>, and select *Hosted Services, Storage Accounts & CDN* in the bottom left corner. In the top left corner, press *New Hosted Service*. Enter a name and URL for your service, choose a region, and specify a deployment name.

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Mindows Azure Platform	English	Billing   I	Dennis Bykkov   Sign Out 🔷 🙆
New Hosted New Production New Staging Deployment Deployment		Connect	
Deployment Health     Affinity Groups     Name	Enter a name for your service	nt	Properties
Management Certificates     Subscr     Subscr     Subscr	Enter a URL prefix for your service HRDemo .cloudapp.net		dennis.bykkov@live.com Created
Storage Accounts (0)     Du User Management     Du VM Images	Choose a region or affinity group           Image: Anywhere US         Image: Create or choose an affinity group		7/17/2011 8:24:15 PM UTC Name
ST Home	Deployment options           Opploy to stage environment		Subscription-1 Quota
Hosted Services, Storage Accounts & CDN	<ul> <li>Deploy to production environment</li> <li>Do not deploy</li> <li>Start after successful deployment</li> </ul>		Cores: 0 / 20 Hosted Services: 0 / 6 Storage: 0 / 5
Database	Deployment name		Status Active
Service Bus, Access Control & Caching	Package location Browse Locally Browse Storage		Service administrator dennis.bykkov@live.com
, Virtual Network		•	Subscription ID e3367041-c02d-4cd2-8e4b
Data refresh paused	© 2011 Microsoft Corporation Privacy Statement	Terms of Use H	elp and Support Feedback 😫

Select the *CloudApp.cspkg* for *Package Location*, and *ServiceConfiguration.cscfg* for the *Configuration File*. Press *OK* to deploy your application to the cloud. This step will take several minutes.

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Mindows Azure Platform	English Billing   De	annis Bykkov   Sign Out 🌰 🙆
New Hosted New Production New Staging Upgra	HRDemo .cloudapp.net Access	
Deployment Health Choose Colum	Choose a region or affinity group	Properties
Affinity Groups Affinity Groups Affinity Groups Annee Subscri	Deployment options nt	Account administrator dennis.bykkov@live.com Created 7/17/2011.8:24:15 PM UTC Name Subscription-1
Hosted Services, Storage Accounts & CDN	Package location CloudApp.cspkg Browse Locally Browse Storage	Quota Cores: 0 / 20 Hosted Services: 0 / 6
Database Reporting	Configuration file ServiceConfiguration.cscfg Browse Locally Browse Storage	Storage: 0 / 5 Status Active
Service Bus, Access Control & Caching	Add Certificate OK Cancel	Service administrator dennis.bykkov@live.com Subscription ID e3367041-c02d-4cd2-8e4b
Data refresh paused	© 2011 Microsoft Corporation Privacy Statement Terms of Use Hel	p and Support Feedback

Once deployment is complete, you can click on the deployment and access the website from the *DNS name* on the right side.

+ > Attps://windows.azure.c	com,	igement Portal – Wind ×				× 🗖 🗕 🚽
S Windows Azure Platform				English	Billing	Dennis Bykkov   Sign Out 🔺 🌘
New Hosted New Production New Service Deployment Deployment	Staging Upgrade Configure	Delete Start Stop VI		Reimage	nable Connect	
New		Deployments	In	stances F	emote Access	
🗅 Deployment Health	Choose Columns			Filter hosted ser	vices	Properties
🖿 Affinity Groups	Name	Туре	Status	Envi	onment	Created
🗀 Management Certificates	4 🛄 Subscription-1	Subscription	Active			7/20/2011 11:43:06 PM UT
Hosted Services (1)	4 🧬 HR	Hosted Service	Created			Cores used
Storage Accounts (0)	Certificates					2
🗀 User Management	4 🧊 HR	Deployment	Ready	Stag	ing	-
🖿 VM Images	4 🏹 WebRole1	Role	Ready	Stag	ing	DNS name
💦 Home	WebRole1_I	-	Ready	Stag	-	http://fa26319e85234040a4
<u></u>	WebRole1_I	N_ Instance	Ready	Stag	ing	Environment
Hosted Services, Storage					-	Staging
Accounts & CDN						ID
🚺 Database						fa26319e85234040a4990a1
						Input endpoints
Reporting						WebRole1:157.55.197.229:
Service Bus, Access Control						Last operation
Virtual Network	4					Status: Succeeded Last operation: Create depl Time started: 7/20/2011 11
Done. 28s to next refresh.		C	2011 Microsoft Corporat	ion Privacy Stateme	nt Terms of Use	Help and Support Feedback

As the environment is still staging, the URL displays the ID of the deployment.

🤆 🔶 🧭 http://fa26319e85234040a4990a134abd980e.cloudapp.net/Pages/Home.aspx 🖉 🖓 👻 🗟 🕻	🗴 🦉 Management Portal – Window 🦉 Start 🛛 🗙 👘 🛧 🌣
History   Permalink	Welcome admin, Today is Wednesday, July 20, 2011   My Account   Logout   Help 👌
🗱 MyCompany	
Home Jobs • Membership	Site Actions *
Home > Home Start	
Please select a page link in the table of contents below.	Sign in to access the protected site content.
Site Map	Instructions
Home	Two standard user accounts are automatically created when application is initialized if membership option has been selected for this application.
Employees Membership	The administrative account <b>admin</b> is authorized to access all areas of the web site and membership manager. The standard <b>user</b> account is allowed to access all areas of the web site with the exception of membership manager.
	Move the mouse pointer over the link <i>Login to this web site</i> on the right-hand side at the top of the page and sign in with one of the accounts listed below.
	Administrative account: admin / admin123%
	Standard user account: user / user123%
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There is one more step to fully deploying your application – you must change the environment to *Production*. This can be done by pressing the *Swap VIP* button on the ribbon.

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Mindows Azure Platform			E	inglish 💽 Billing	Dennis Bykkov   Sign Out 🌰 🕐
New Hosted New Production New Stagin Service Deployment Deployment		e Delete Start Stop Swap Configure OS	Reboot Reimage	Configure	
New		Deployments	Instances	Remote Access	
🖿 Deployment Health 💙 🕻	Choose Columns 🔽	Swap VIPs		ed services	
Affinity Groups	ame	Move the bits deployed in Staging to Producti		Environment	Created
Management Certificates	Subscription-1	Production to Staging slots. After this operation will point to the bits currently deployed in the	on the Production VIP		7/20/2011 11:43:06 PM UT
Hosted Services (1)	4 🧬 HR	Staging VIP will point to the bits currently dep Production slot.	oloyed in the		Cores used
Storage Accounts (0) User Management	Certificates	More info on VIP swaps		Staging	
VM Images	WebRole1	Swap		Staging	DNS name
a viri images	WebRole1	HR		Staging	http://fa26319e85234040a4
Home	WebRole1	From		Staging	Environment
Hosted Services, Storage		HR (Staging)			Staging
Accounts & CDN		<empty> (Production)</empty>			ID
Database					fa26319e85234040a4990a1
Database			K Cancel		
. Reporting					Input endpoints
Consider Dura Assess Constant					
Service Bus, Access Control & Caching					Last operation
Two Virtual Network					Status: Succeeded Last operation: Create depl Time started: 7/20/2011 11
Data refresh paused		© 2011 Microsoft	Corporation Privacy St	tatement Terms of Use	Help and Support Feedback 🔫

Press *OK* to confirm, and your application will become accessible from the URL specified earlier.

( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	ρ - B C X @ Management Portal - Window @ Start × A ★ Φ
History   Permalink	Welcome admin, Today is Wednesday, July 20, 2011   My Account   Logout   Help
MyCompany	recente durini, rougi la reancadi par sa sex i ri recourci cagouci ricip
Home Jobs  Membership	Site Actions *
Home > Home Start	
Please select a page link in the table of contents below.	Sign in to access the protected site content.
Site Map	Instructions
Home 🖃 Jobs	Two standard user accounts are automatically created when application is initialized if membership option has been selected for this application.
Employees Membership	The administrative account <b>admin</b> is authorized to access all areas of the web site and membership manager. The standard <b>user</b> account is allowed to access all areas of the web site with the exception of membership manager.
	Move the mouse pointer over the link <i>Login to this web site</i> on the right-hand side at the top of the page and sign in with one of the accounts listed below.
	Administrative account: admin / admin123%
	Standard user account: user / user123%
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## **Changing Instance Count and Virtual Machine Size**

By default, *Azure Factory* applications use two extra small instances. This can be changed using Visual Studio. In Code On Time Generator, next to your project name, press Design.

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	CODE TIME						YouTube   Blog   Community http://www.codeontime.com
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= Down = Reque = Buy a	est help with product edi	uide and Cookbook your project.					Azure Factory Tutorial Thursday, July 21, 2011 12:27 AM   Customer Service Learn how to create an Azure Factory application, and deploy this application to the doud. Watch at http://www.youtube.com/watch? v=GYFJ8r Read at http://codeontime.com/Documents/UG-Az Global Record Updates Wednesday, July 20, 2011 10:38 PM   Simon Bunce Hi I have a field which refers to "Last Updated"
© 2011 C	ode OnTime	LLC. All rights rese	rved.	-	-	_	

*Visual Studio* needs to run in administrative mode to use the cloud emulator, and this will set off the *User Account Control* screen. Confirm that you want *devenv.exe* to run. Once *Visual Studio* opens, navigate to *CloudApp* | *Roles* | *WebRole1*.

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Double click on *WebRole1*, and the *Configuration* page will appear. Under *Instances*, you can change the number count and size of the virtual machines of your cloud application. Be sure to check the pricing for the instances, as you will be charged more for larger instances.

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