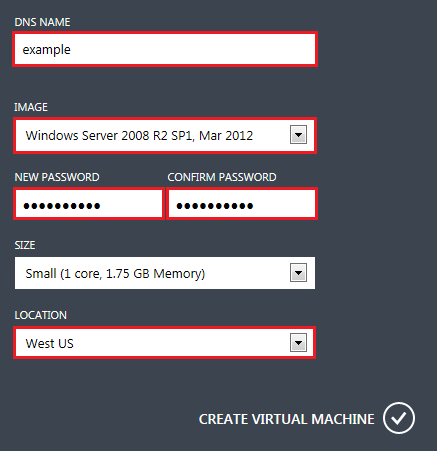
To create a virtual machine

1. Log in to the [Windows Azure Management Portal](https://manage.windowsazure.com/).
2. Click **New**.
3. Click **Virtual machine**.
4. Click **Quick create**.
5. In the **Create virtual machine** screen, enter a value for **DNS name**.
6. From the **Image** dropdown list, select an image, such as **Windows Server 2008 R2 SP1**.
7. Enter a name for the administrator in the **User Name** field. Remember this name and the password you will enter next, you will use them when you remotely log in to the virtual machine.
8. Enter a password in the **New password** field, and re-enter it in the **Confirm** field. This is the Administrator account password.
9. From the **Location** drop down list, select the data center location for your virtual machine. Your screen will look similar to the following.



1. Click **Create virtual machine**. Your virtual machine will be created. You can monitor the status in the **Virtual machines** section of the management portal.

To remotely log in to your virtual machine

1. Log on to the [Management Portal](https://manage.windowsazure.com/).
2. Click **Virtual machines**.
3. Click the name of the virtual machine that you want to log in to.
4. Click **Connect**.
5. Respond to the prompts as needed to connect to the virtual machine. When prompted for the administrator name and password, use the values that you provided when you created the virtual machine.

To install a JDK on your virtual machine

You can copy a Java Developer Kit (JDK) to your virtual machine, or install a JDK through an installer.

For purposes of this tutorial, a JDK will be installed from Oracle's site.

1. Log in to your virtual machine.
2. Within your browser, open <http://www.oracle.com/technetwork/java/javase/downloads/index.html>.
3. Click the **Download** button for the JDK that you want to download. For purposes of this tutorial, the **Download** button for the Java SE 6 Update 32 JDK was used.
4. Accept the license agreement.
5. Click the download executable for **Windows x64 (64-bit)**.
6. Follow the prompts and respond as needed to install the JDK to your virtual machine.

To install a Java application server on your virtual machine

You can copy a Java application server to your virtual machine, or install a Java application server through an installer.

For purposes of this tutorial, a Java application server will be installed by copying a application file from Apache's site.

1. Log in to your virtual machine.
2. Within your browser, open <http://tomcat.apache.org/download-70.cgi>.
3. Double-click **32-bit/64-bit Windows Service Installer**
4. When prompted, choose to save the application.
5. When the application is saved, open the folder that contains the application and double-click on it.
6. Install the application. For purposes of this tutorial, the path used was **C:\program files\apache-tomcat-7.0.27-windows-x64**.

Start Tomcat:

On the left side of taskbar press show hidden icons, then you see the tomcat icon, click on it with right mouse button and press start service.

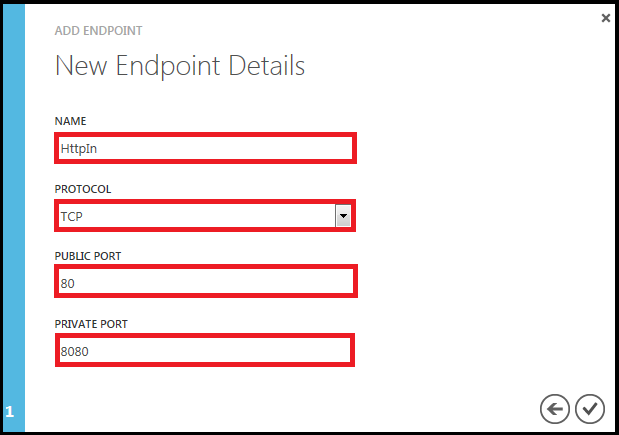
You should now see Tomcat running if you run the virtual machine's browser and open [http://localhost:8080](http://localhost:8080/).

To see Tomcat running from external machines, you'll need to create an endpoint and open a port.

To create an endpoint for your virtual machine

1. Log in to the [Management Portal](https://manage.windowsazure.com/).
2. Click **Virtual machines**.
3. Click the name of the virtual machine that is running your Java application server.
4. Click **Endpoints**.
5. Click **Add endpoint**.
6. In the **Add endpoint** dialog, ensure **Add endpoint** is checked and click the **Next** button.
7. In the **New endpoint details** dialog
   * Specify a name for the endpoint; for example, **HttpIn**.
   * Specify **TCP** for the protocol.
   * Specify **80** for the public port.
   * Specify **8080**for the private port.

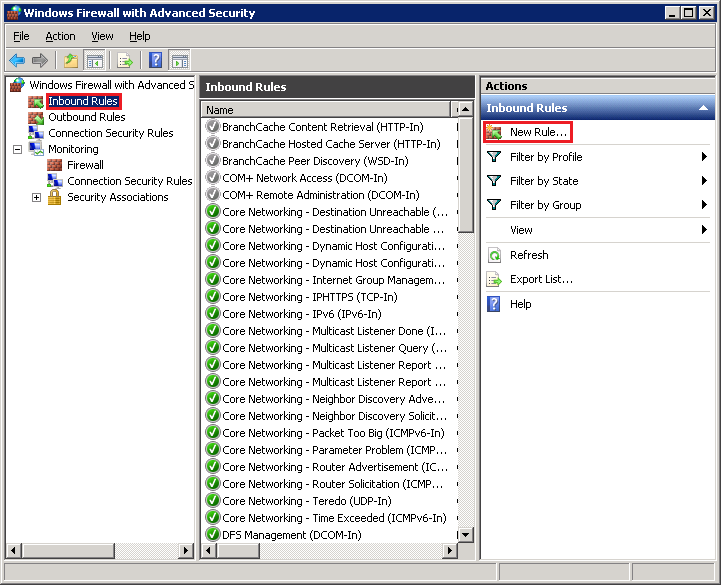
Your screen should look similar to the following:



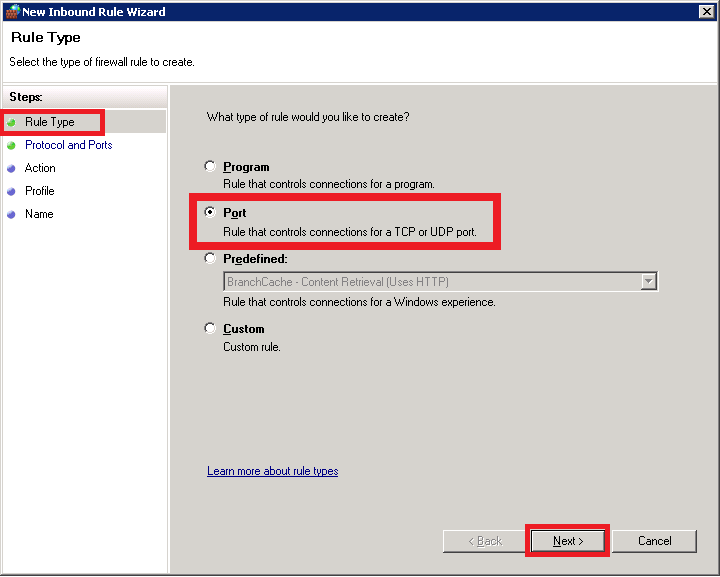
* + Click the **Check** button to close the dialog. Your endpoint will now be created.

To open a port in the firewall for your virtual machine

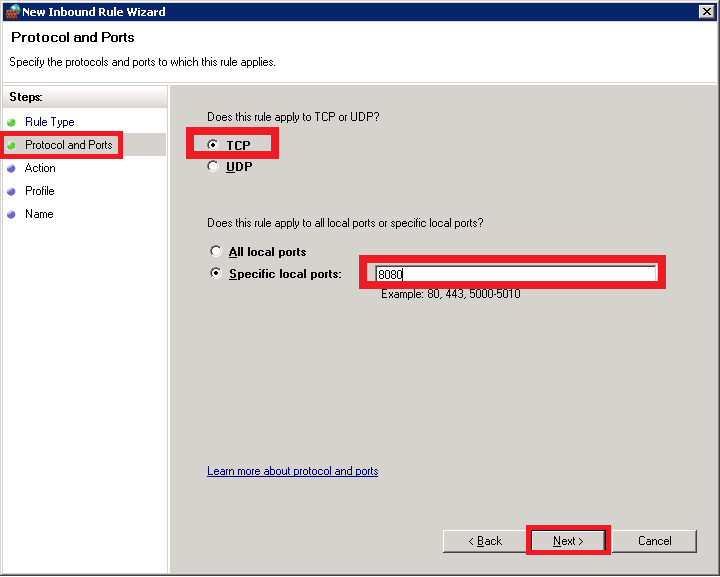
1. Log in to your virtual machine.
2. Click **Windows Start**.
3. Click **Control Panel**.
4. Click **System and Security**, click **Windows Firewall**, and then click **Advanced Settings**.
5. Click **Inbound Rules** and then click **New Rule**.



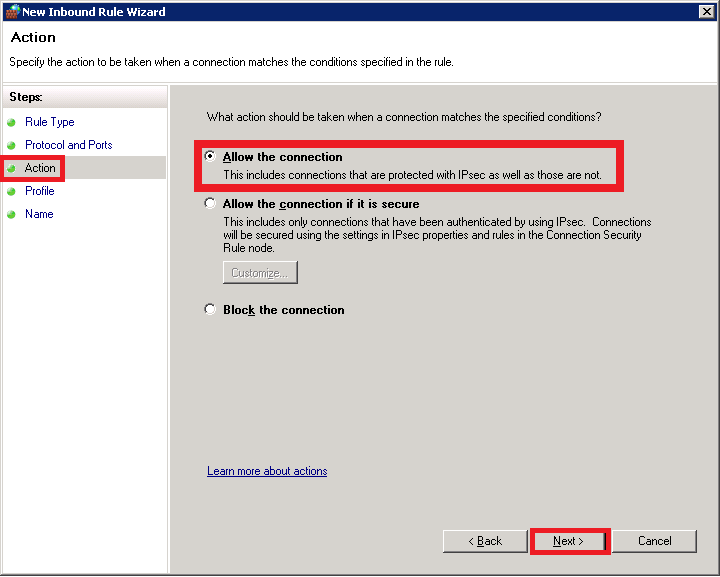
1. For the new rule, select **Port** for the **Rule type** and click **Next**.



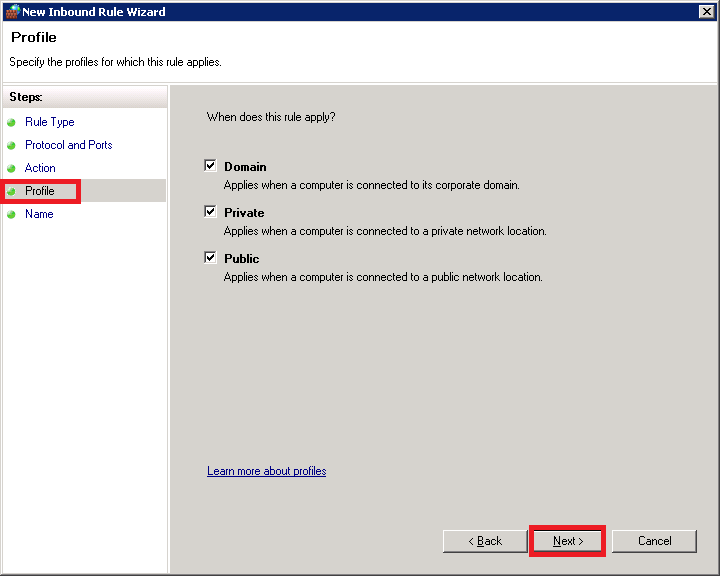
1. Select **TCP** for the protocol and specify **8080** for the port, and click **Next**.



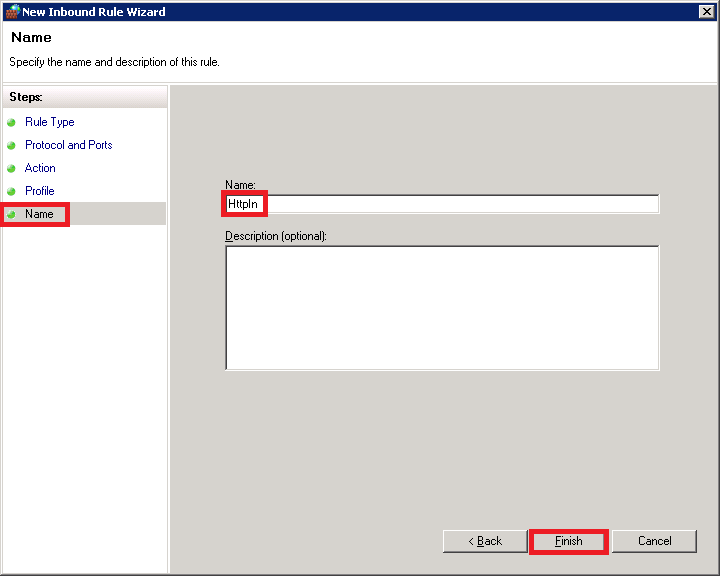
1. Choose **Allow the connection** and click **Next**.



1. Ensure **Domain**, **Private**, and **Public** are checked for the profile and click **Next**.



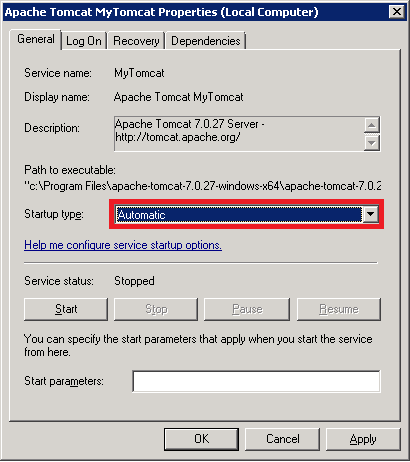
1. Specify a name for the rule, such as **HttpIn** (the rule name is not required to match the endpoint name, however), and then click **Finish**.



At this point, your Tomcat web site should now be viewable from an external browser, using a URL of the form**http://*your\_DNS\_name*.cloudapp.net**, where ***your\_DNS\_name*** is the DNS name you specified when you created the virtual machine.

**Tip**

 To set it to start automatically, double-click the service in the Services snap-in and set **Startup Type** to **Automatic**, as shown in the following.



Deploy

* Go to tomcat main directory -> config -> tomcat-users.xml , open it with notepad and add permissions.

My example looks like it.

<role rolename="manager-gui"/>

<role rolename="manager-script"/>

<role rolename="manager-jmx"/>

<role rolename="manager-status"/>

<role rolename="admin-gui"/>

<role rolename="admin-script"/>

<user username="manager-gui" password="tomcat" roles="manager-gui"/>

<user username="manager-script" password="tomcat" roles="manager-script"/>

<user username="manager-jmx" password="tomcat" roles="manager-jmx"/>

<user username="manager-status" password="tomcat" roles="manager-status"/>

<user username="admin-gui" password="tomcat" roles="admin-gui"/>

<user username="admin-script" password="tomcat" roles="admin-script"/>

* After that go to the <http://yourName.cloudapp.net/manager/html/list>

type name manager-guy, password tomcat (like in my example).

* And here you can deploy your war file.