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## RabbitMQ for Windows: Introduction

5 March, 2012. It was a Monday.

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If you're interested in getting started with distributed programming and you develop on the Microsoft Windows platform, [RabbitMQ](#) may be what you're looking for. RabbitMQ is an open source, standards-based, multi-platform message broker with client libraries available for a host of development platforms including .Net.

This series will provide a gentle introduction to getting started with RabbitMQ for .Net developers, including a Windows environment installation guide along with an introduction to basic concepts and features through the use of examples in C#. In this first installment, we'll cover installation and basic configuration.

## Installation

The first thing to know about RabbitMQ installation is that RabbitMQ runs on the [Erlang](#) virtual runtime. *"What is Erlang", you ask, and "Why should I ask our admins to install yet another runtime engine on our servers"?* Erlang is a functional language which places a large emphasis on concurrency and high reliability. Developed by Joe Armstrong, Mike Williams, and Robert Virding to support telephony applications at Ericsson, Erlang's flagship product, the Ericsson AXD301 switch, is purported to have achieved a reliability of nine "9"s.

A popular quote among Erlang adherents is Verding's "First Rule of Programming":

*"Any sufficiently complicated concurrent program in another language contains an ad hoc informally-specified bug-ridden slow implementation of half of Erlang." – Robert Verding*

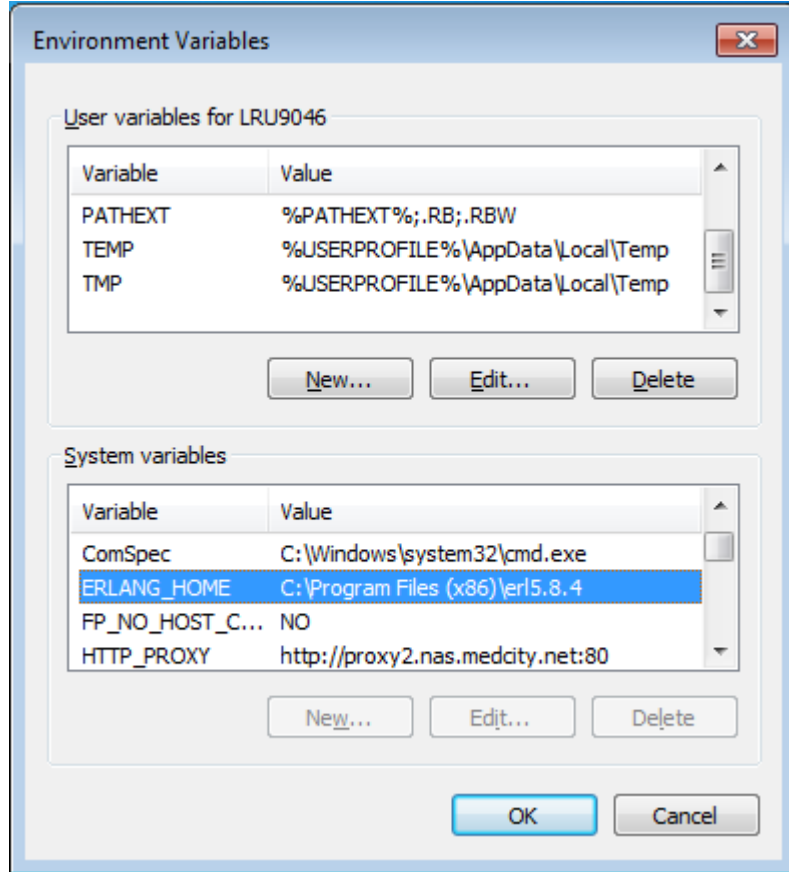
Sound like the perfect platform to write a message broker in? The authors of RabbitMQ thought so too.

With that, let's get started with the installation.

### Step 1: Install Erlang

The first step will be to download and install Erlang for Windows. You can obtain the latest installer from [here](#) (version R15B at the time of this writing) .

After downloading and completing the Erlang installation wizard, you should have a new ERLANG\_HOME environment variable set. If not, you'll want to set this now so RabbitMQ will be able to locate your installation of Erlang.



## Step 2: Install RabbitMQ

Next, download and install the latest version of RabbitMQ for Windows from [here](#) (version 2.7.1 at the time of this writing).

## Step 3: Install the RabbitMQ Management Plugin

By default, the RabbitMQ Windows installer registers RabbitMQ as a Windows service, so technically we're all ready to go. In addition to the command line utilities provided for managing and monitoring our RabbitMQ instance, a Web-based management plugin is also provided with the standard Windows distribution. The following steps detail how to get the management plugin up and going.

First, from an elevated command prompt, change directory to the sbin folder within the RabbitMQ Server installation directory (e.g. %PROGRAMFILES%\RabbitMQ Server\rabbitmq\_server\_2.7.1\sbin).

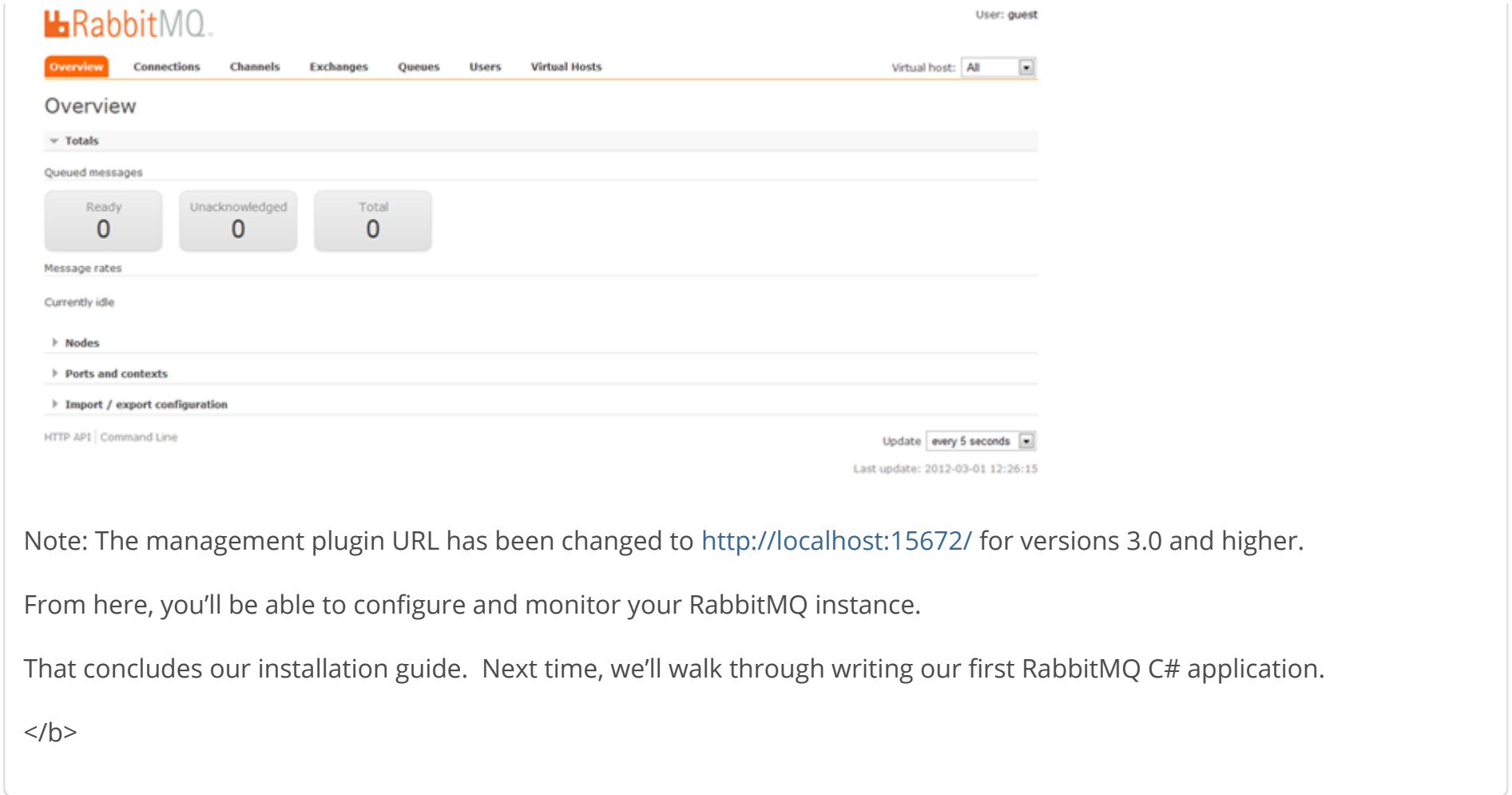
Next, run the following command to enable the rabbitmq management plugin:

```
rabbitmq-plugins.bat enable rabbitmq_management
```

Lastly, to enable the management plugin we need to reinstall the RabbitMQ service. Execute the following sequence of commands to reinstall the service:

```
rabbitmq-service.bat stop  
rabbitmq-service.bat install  
rabbitmq-service.bat start
```

To verify management plugin is up and running, start your favorite browser and navigate to <http://localhost:55672/mgmt/>. If everything went ok, you should see a screen similar to the following:



Note: The management plugin URL has been changed to <http://localhost:15672/> for versions 3.0 and higher.

From here, you'll be able to configure and monitor your RabbitMQ instance.

That concludes our installation guide. Next time, we'll walk through writing our first RabbitMQ C# application.

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**23 Comments**   **Los Techies**   **Disqus' Privacy Policy****1 Login** ▾ **Recommend**   **Tweet**   **Share****Sort by Best** ▾**Dmytro Kudryavtsev** • 9 years ago

To use the web UI you will need to authenticate as a RabbitMQ user (on a fresh installation the user "guest" is created with password



"guest").

<http://www.rabbitmq.com/man...>

8 ^ | v • Share ›



**derekgreer** Mod → Dmytro Kudryavtsev • 9 years ago

Yes, I should have included that in the article. Thanks.

^ | v • Share ›



**Josh** • 7 years ago

Just a note that the management port for RabbitMQ versions 3.0+ is now 15672 instead of 55672

5 ^ | v • Share ›



**sagar handore** → Josh • 7 years ago

Thanku...

^ | v • Share ›



**Kaushal** → Josh • 7 years ago

Thanks for sharing this.

^ | v • Share ›



**Purandar** • 7 years ago

Port number in the URL should be 15672

<http://localhost:15672/>

1 ^ | v • Share ›



**Joel** • 8 years ago

Hey Derek, ran across this researching .net amqp options. Nice to see that you're using rabbit. It seems like the canonical amqp impl. You rock bud..

1 ^ | v • Share ›



**derekgreer** Mod → Joel • 8 years ago

Thanks, Joel. Hope all is well in The Great State.

^ | v • Share ›



**Himanshu Kumar Verma** • 6 years ago

how to check that my rabbitmq-auth-backend-http plugin is enable or not??

^ | v • Share ›



**babu** • 6 years ago

Hi I followed the steps as mentioned but I have weird problem when I login , I see the following problem : Config filec:/Users/java/AppData/Roaming/RabbitMQ.config (not found)Please help me

^ | v • Share ›



**csharper** • 7 years ago

I've see that Erlang quote before, but I've never seen anyone mention it's almost a complete ripoff of Greenspuns tenth rule.

<http://en.wikipedia.org/wiki...>

^ | v • Share ›



**derekgreer** Mod → csharper • 7 years ago

It's certainly derivative and it's probably true that many aren't aware of the origin, but I don't think it was originally set forth as an original idea. Some within the Haskell and Closure communities have also re-purposed this rather tongue-in-cheek description for themselves as well. It's probably more accurate to think of it in the vein of a meme than a marketing slogan ripoff.

^ | v • Share ›



**Jayanth** • 8 years ago

fantastic explanation on how to setu[ the UI for rabbitmq.

^ | v • Share ›



**.Netnewbie** • 8 years ago

I am having an issue running rabbitmq-plugins.bat enable rabbitmq\_management .Its throwing an error Unable to create cookie file h:/ . I am working on my work pc and corporate policy sets the homedrive to h: which is not accessible. Is there any workaround ? ! Thanks !

^ | v • Share ›



**Rithish Saralaya** • 8 years ago

Wonderful tutorial. The web UI auth part is missed out; otherwise everything works as stated. :)

^ | v • Share ›



**david** • 8 years ago

thanks for your article it helps me a lot to enable the management plugin. I was using first RabbitMQ service (re) install on the start->all programs but only the sequence of commands you mentionned lastly enable the plugin.

^ | v • Share ›



**Bryan Nehl** • 9 years ago

Thanks for this post. I was trying to get the management console working with no luck and came across this post. The key thing I was missing was to run from an elevated command prompt. Did that and got the server working! Without that, everything looked like it was working and installed but the web server wasn't up. Thanks. :)

^ | v • Share ›



**Fernando Zamora Jimenez** • 9 years ago

Thanks for sharing. Can't wait for your next post. You kinda left me hanging! Just Kidding. Thanks again for sharing.

^ | v • Share ›



**Joe** • 9 years ago

Derek,

Can you cover when and why you'd use a message queue solution (be it RabbitMQ or any other)?

^ | v • Share ›



**derekgreer** Mod ➔ Joe • 9 years ago

Hey, Joe. Most situations where you have a point-to-point connection (e.g. client/server, RPC, Web Services, etc.) can be facilitated by messaging and often with more ease, so you might consider it for that reason alone.

Some situations where you should consider using messaging are:

- When you have a heterogeneous development environment
- When you have asynchronous workflow needs
- When you need to monitor communication
- When you have high reliability needs
- When you need scalability
- When you hate XML

^ | v • Share ›





**Fernando Zamora Jimenez** → derekgreer • 9 years ago

hmmm... I always thought one of the big reasons for message queueing service was because both systems sender and receiver are not necessarily connected at the same time. This would allow the receiver and sender to send and receive on independent schedules from one another.

^ | v • Share ›



**Fernando Zamora Jimenez** → Fernando Zamora Jimenez • 9 years ago

In other words the receiver may be down but it can pickup the messages once it comes backup since they are in a queue. I'm not sure if the "asynchronous workflow" covers this already.

^ | v • Share ›



**derekgreer** Mod → Fernando Zamora Jimenez • 8 years ago

Yep.

^ | v • Share ›

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