This article describes how to get started using the Windows Azure images developed by BitNami. We will use the BitNami WordPress image for the examples below.

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Add BitNami Image

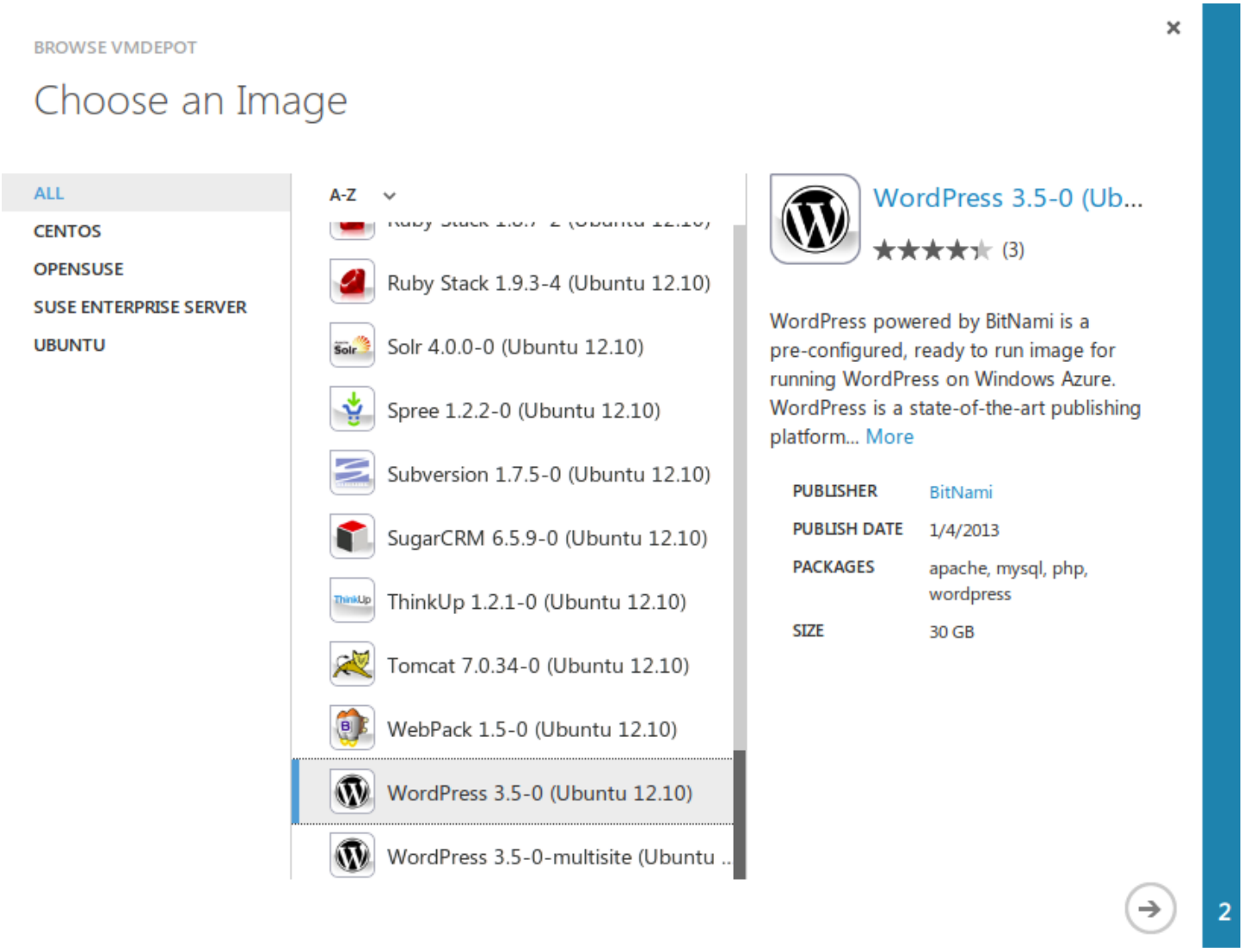
We have prepared several BitNami images for Windows Azure and will continue to release more.

Azure free trial

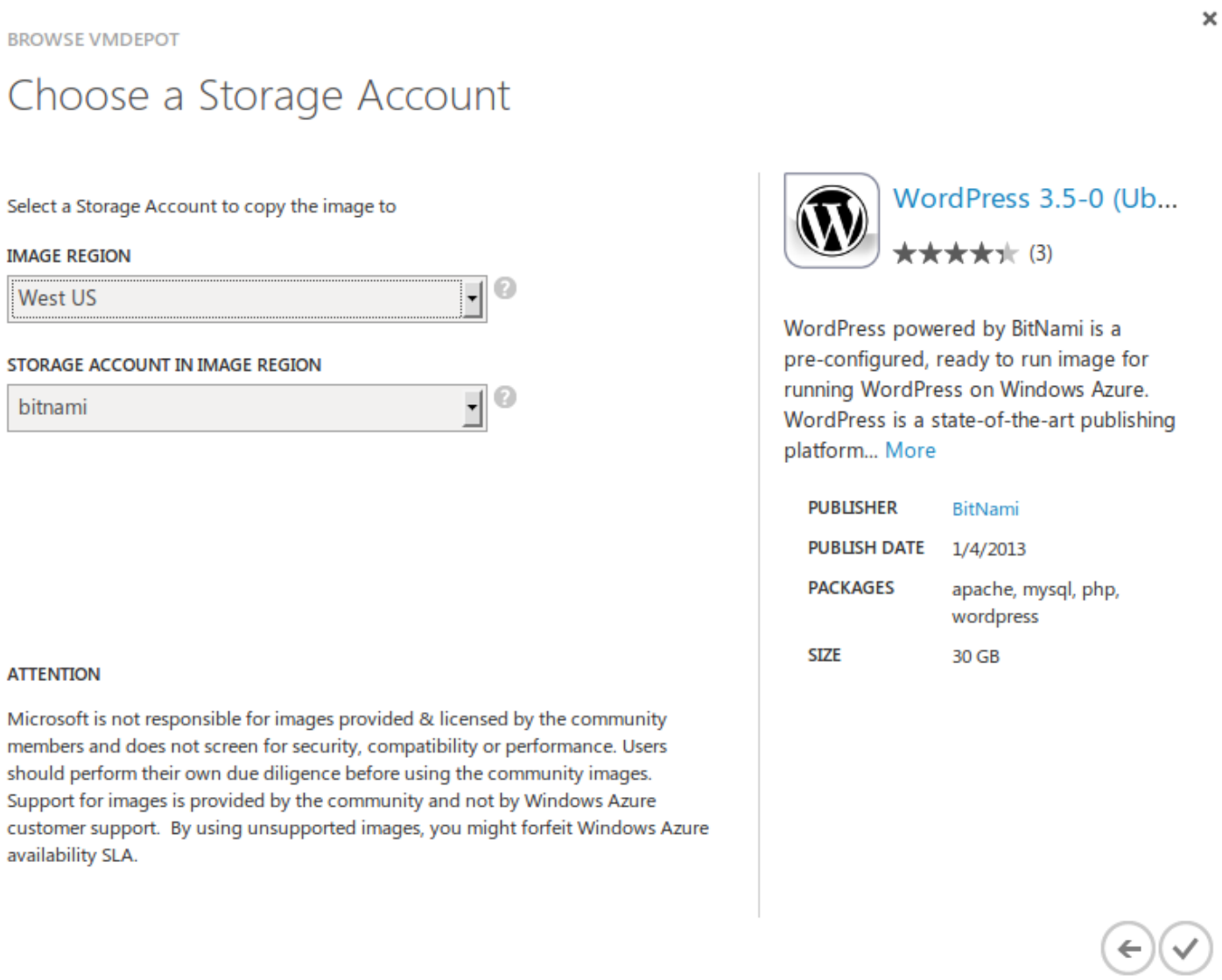
All BitNami images are listed in the Azure Community Portal VM Depot and in the Windows Azure web console.

You can manage all your Windows Azure resources via the WIndows Azure web console. To do so, go to **https://manage.windowsazure.com** and sign in with your Windows Azure login and password.

First, go to the "Virtual Machines" section and then "Images" tab" and click "Browse VMDepot" at the bottom of the page.



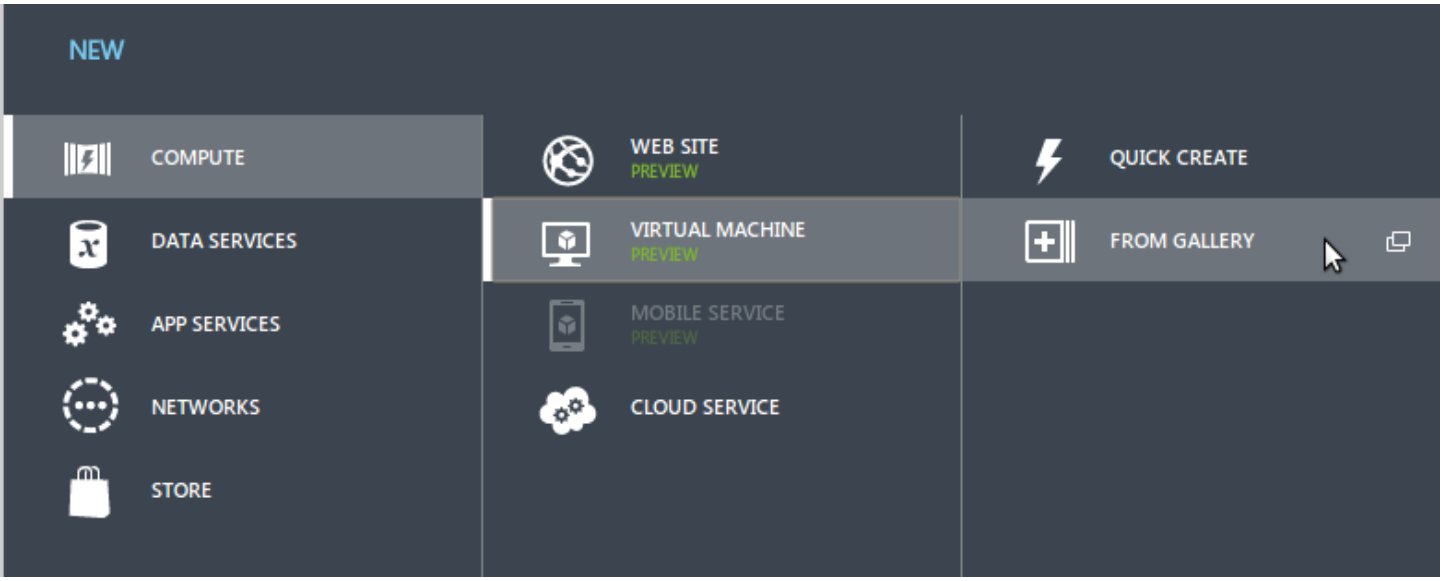
Select the BitNami image which you want to add to your Windows Azure Account. We choose WordPress in this tutorial. Each Windows Azure Image powered by BitNami has a detailed description of the included application. The listing also provides the default application login and password. Click "More" to show the image description.

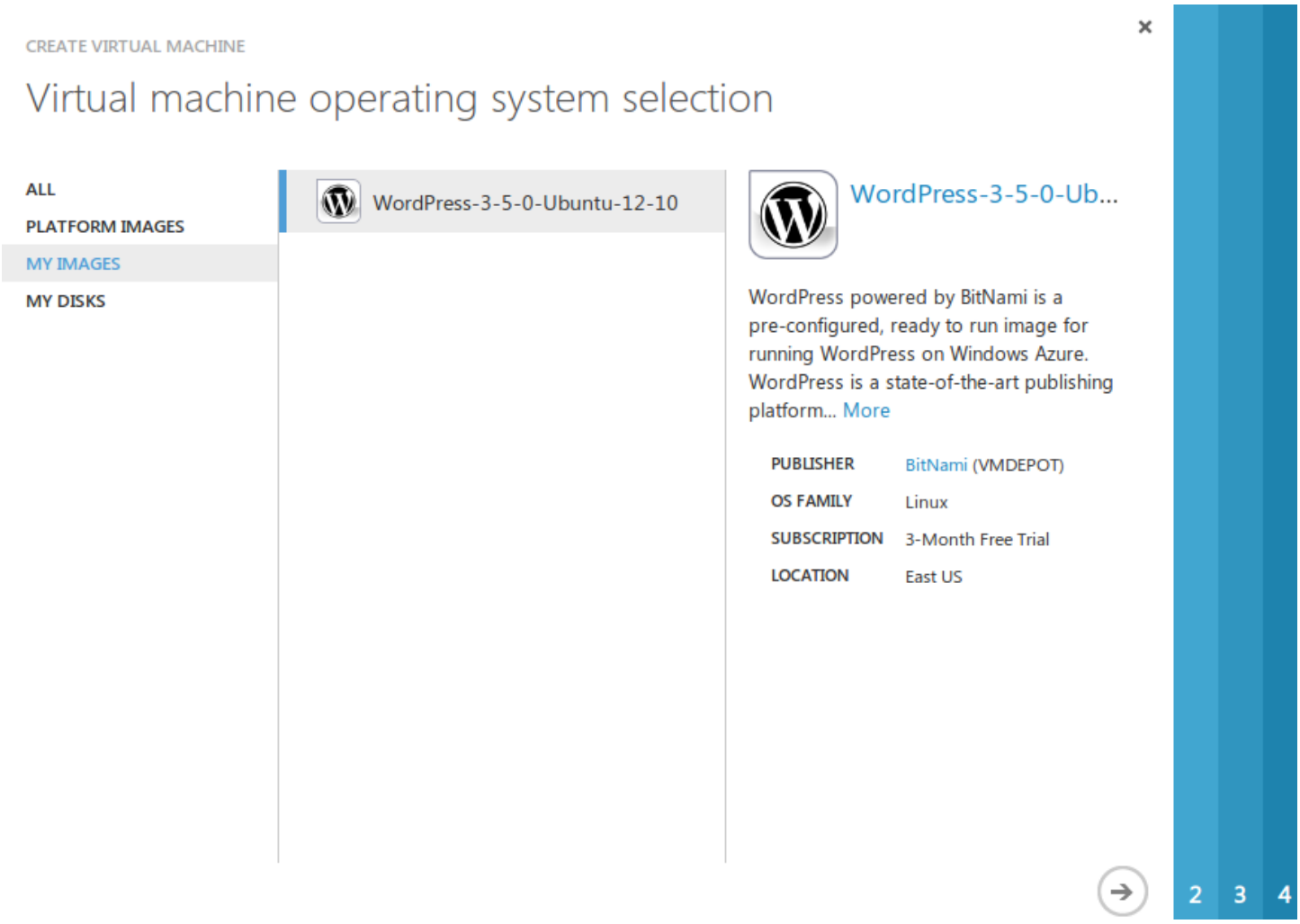


Click OK. Now your new image (in our case "WordPress-3-5-0-Ubuntu-12-10") will show up in the Images section. Select it and click the "Register" button at the bottom. In the new pop-up window you will be able to choose the name for your image. Then click OK.

Launch your machine

Once the new image is added, click New in the left bottom corner. Select "Virtual Machine" and then "From Gallery" option. Go to "My Images" in the new pop-up window and select your new image:





Enter your machine name, login, password, instance type and DNS name in the machine configuration wizard.

CREATE VIRTUAL MACHINE

Virtual machine configuration

VIRTUAL MACHINE NAME

my-wordpress

NEW USER NAME

wpuser

NEW PASSWORD

••••••••••

CONFIRM

••••••••••

SIZE

Small (1 core, 1.75 GB Memory)

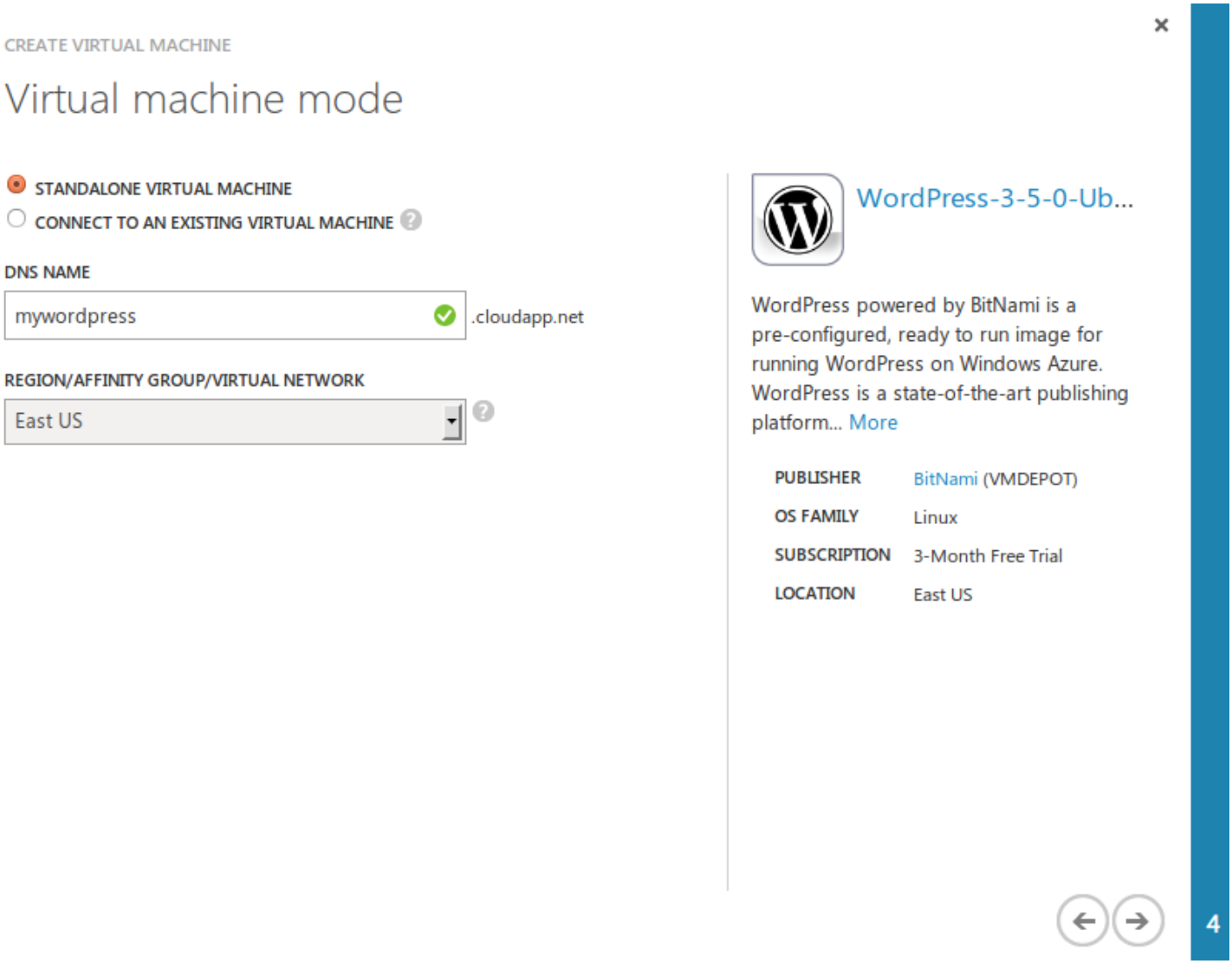
UPLOAD SSH KEY FOR AUTHENTICATION

WordPress-3-5-0-Ub...

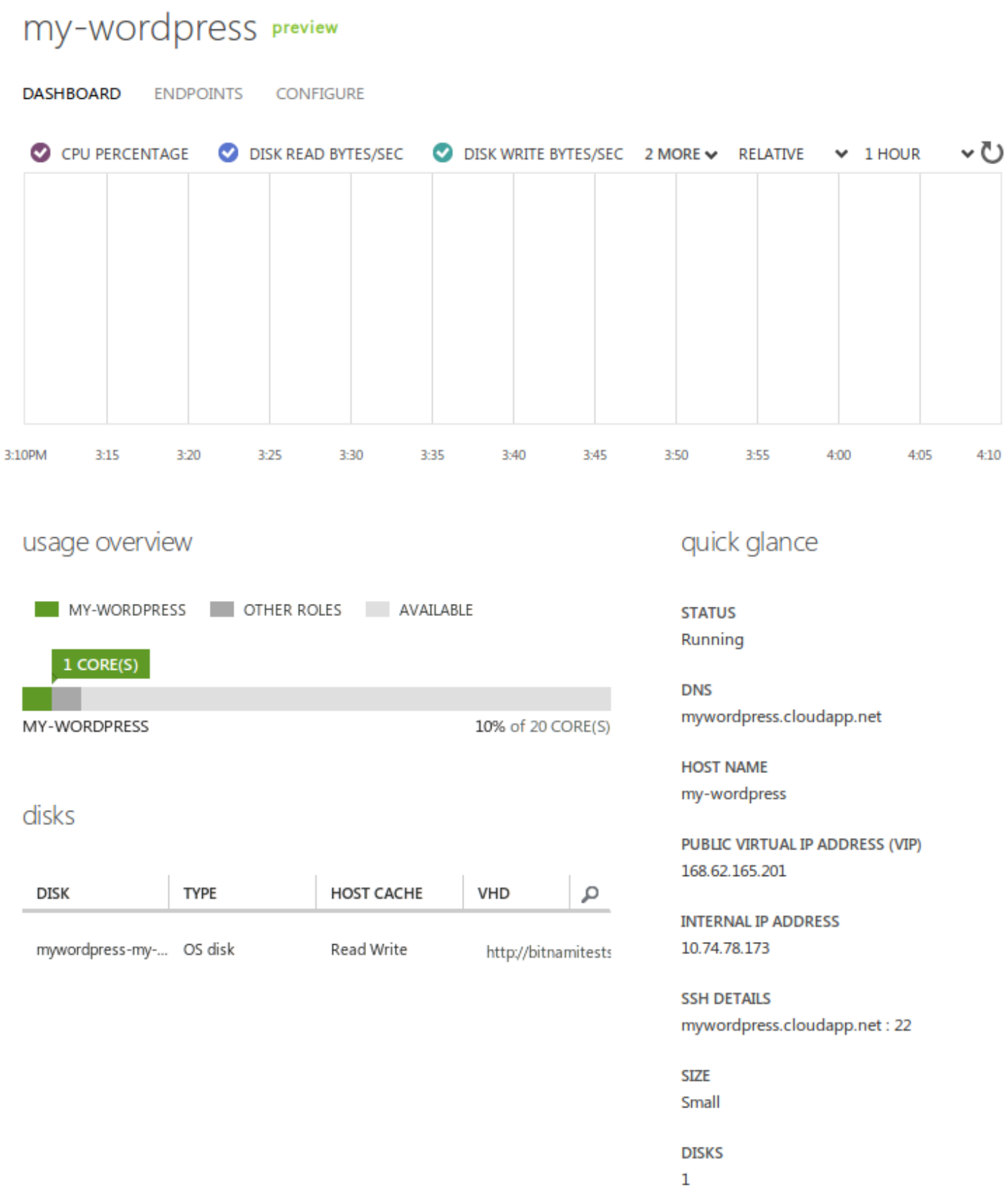
WordPress powered by BitNami is a pre-configured, ready to run image for running WordPress on Windows Azure. WordPress is a state-of-the-art publishing platform... More

PUBLISHER	BitNami (VMDEPOT)
OS FAMILY	Linux
SUBSCRIPTION	3-Month Free Trial
LOCATION	East US

3 4



Once the new machine wizard is completed, click "Virtual Machines" in the left menu, and select your new server. Wait till your machine is running.



Open network ports

This dashboard gives you an overview of all server attributes, possible operations and also allows you to modify your instance configuration.

We can check which network ports are open in the "Endpoints" section.

DASHBOARD ENDPOINTS CONFIGURE

NAME	PROTOCOL	PUBLIC PORT	PRIVATE PORT
SSH	TCP	22	22

You need to add port 80 (HTTPS) here. Click "Add Endpoint" at the bottom of the page and fill in the form below:

ADD ENDPOINT

Specify endpoint details

NAME

http

PROTOCOL

TCP

PUBLIC PORT

80

PRIVATE PORT

80

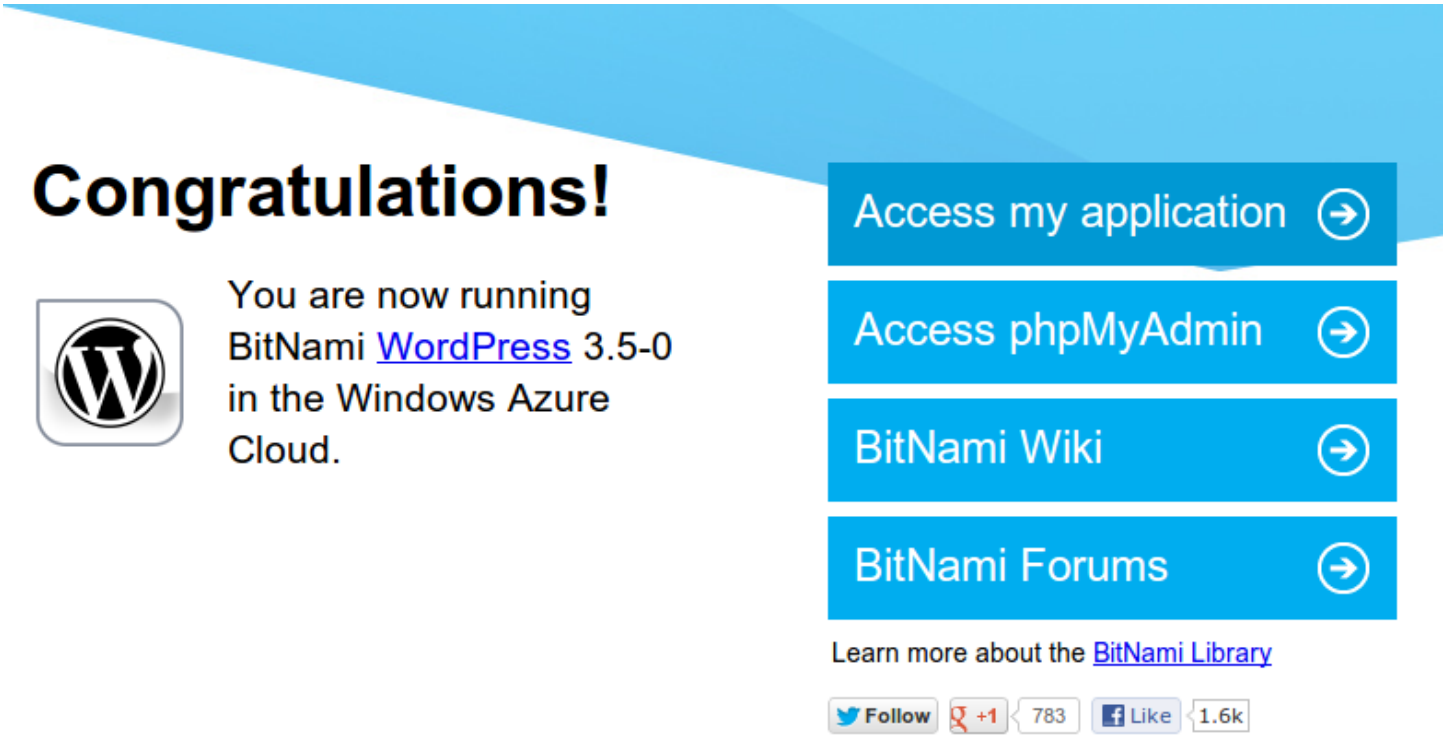
Please note that it may take some time before the new port is available.

DASHBOARD ENDPOINTS CONFIGURE

NAME	PROTOCOL	PUBLIC PORT	PRIVATE PORT
http	TCP	80	80
SSH	TCP	22	22

Access your application

Once your machine is running and port 80 (HTTP) is opened, you can enter its domain name in your web browser. In our example, it is *mywordpress.cloudapp.net*. You can find the domain in the main dashboard,



Click "Access my application" to get access to your WordPress application.

Please note that in most cases, the default application login and password are:

login: user

password: bitnami

You can find the default login and password in the Windows Azure VMDepot portal, in the Azure image description.

WARNING: Please login to your application immediately after launching your server and change the default password.

Connect to your machine

You have full control over your machine and you can connect to it with any SSH/SFTP/SCP client. The system account login and password were chosen with the server creation command. Learn more about how to connect to your server. Here is an example of SSH session for our demo machine below:

```
ssh wpuser@mywordpress.cloudapp.net
wpuser@mywordpress.cloudapp.net's password:
```

```
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

Welcome to Ubuntu 12.10 (GNU/Linux 3.5.0-21-generic x86_64)

      ___ _ _   _ _            _
     | _ |_) |_| \| |__ _ _ __ (_)
     | _ \ |  _| .` / _` | '  \| |
     |___/_|\__|_|\_\__,_|_|_|_|_|

  *** Welcome to the BitNami WordPress 3.5-0 ***
  *** BitNami Wiki:   http://wiki.bitnami.com/ ***
  *** BitNami Forums: http://answers.bitnami.com/ ***
wpuser@my-wordpress:~$
```

Basic operations

All of the BitNami base stack components, such as Apache, MySQL, PHP, etc., are located in the **/opt/bitnami** directory.

Configuration files

The most important configuration files are located in the following locations:

Apache web server:

/opt/bitnami/apache2/conf/httpd.conf

Apache web server application secific configuration file

/opt/bitnami/apps/<application-name>conf/<application-name>.conf

example: */opt/bitnami/apps/wordpress/conf/wordpress.conf*

PHP configuration file

/opt/bitnami/php/etc/php.ini

Log files

- /opt/bitnami/apache2/log/error.log
- /opt/bitnami/apache2/log/access.log
- /opt/bitnami/mysql/data/mysqld.log

Applications

All of the BitNami applications are installed in the **/opt/bitnami/apps** directory. If you want to learn more about a specifc BitNami Application, see the following articles:

- Bitnami Alfresco
- BitNami concrete5
- Bitnami CraftBukkit
- BitNami Custom PHP application
- Bitnami Custom Ruby on Rails application
- BitNami Diaspora*
- BitNami Discourse
- BitNami DokuWiki
- BitNami Drupal
- BitNami Ghost
- BitNami GitLab
- BitNami Gitorious
- BitNami Horde Groupware Webmail
- BitNami JasperReports Server
- BitNami Jenkins
- BitNami Joomla!
- BitNami Liferay
- BitNami LimeSurvey
- BitNami Magento
- BitNami Mantis
- BitNami MediaWiki
- BitNami Moodle
- BitNami OpenERP
- BitNami OSClass
- BitNami OSQA
- BitNami ownCloud
- BitNami OXID eShop
- BitNami PhpCompta
- BitNami Piwik
- BitNami Pootle
- BitNami PrestaShop
- Bitnami ProcessWire
- BitNami Redmine
- Bitnami ResourceSpace
- BitNami Review Board
- BitNami Roundcube
- Bitnami SiteCake
- BitNami Spree
- BitNami SugarCRM
- BitNami TestLink
- BitNami Trac
- BitNami Tracks
- BitNami TYPO3
- BitNami Weblate
- BitNami WordPress

- BitNami WordPress Multisite
- BitNami Zurmo

Components

- Apache
- Apache Solr
- Apache Tomcat
- BitNami console
- Django
- JBoss
- Logrotate
- Manager Tool
- MongoDB
- Monit
- MySQL
- Nginx
- Node.js
- PHP
- PHP Frameworks
- PHP-FPM
- phpMyAdmin and phpPgAdmin
- Phusion Passenger
- PostgreSQL
- RockMongo
- Ruby on Rails
- Subversion
- Varnish
- WildFly

Managing Services

The BitNami Stack is managed with the **ctlscript.sh** tool. You can use it to check the state of your services (Apache, MySQL, etc.), start, stop or restart them.

```
wpuser@my-wordpress:~$ sudo /opt/bitnami/ctlscript.sh status
apache already running
mysql already running
wpuser@my-wordpress:~$ sudo /opt/bitnami/ctlscript.sh restart
Syntax OK
/opt/bitnami/apache2/scripts/ctl.sh : httpd stopped
/opt/bitnami/mysql/scripts/ctl.sh : mysql stopped
130114 16:01:05 mysqld_safe Logging to '/opt/bitnami/mysql/data/
mysqld.log'.
130114 16:01:06 mysqld_safe Starting mysqld.bin daemon with databases
from /opt/bitnami/mysql/data
/opt/bitnami/mysql/scripts/ctl.sh : mysql  started at port 3306
Syntax OK
/opt/bitnami/apache2/scripts/ctl.sh : httpd started at port 80
```