Getting Started

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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Bitnami Launchpad for Windows Azure

The Launchpad for Windows Azure is a web-based interface for launching Azure images with ease. When you visit the Launchpad, you will have access to the entire Bitnami Library.

launchpad-home.png

Mouse over a image to reveal two options: Launch in Account and Free 1 hour Demo. You do not need an Azure account to launch a demo, however you will need to sign up for Windows Azure to run a production server.

Enter Bitnami admin password by clicking the sign in link in the top right. Next, you will create a Management Certificate in order to give Bitnami permission to launch applications in your Azure account. Just sign in to Azure.

service_Form.png

A customized pub file will automatically download to your computer, which you can drag from your desktop into the console. Now just click to create a service. Once you do, you'll be able to set your server size, select a region and create a virtual machine

select-region.png

Add Bitnami Image

All Bitnami images are also 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.

azure-console-images-vmdepot-1.png

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:

azure-console-images-vmdepot-create-server-0.png

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

azure-console-images-vmdepot-create-server-1.png

azure-console-images-vmdepot-create-server-2.png

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.

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

azure-machine-add-new-endpoint.png

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

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 AbanteCart
- Bitnami ActiveMQ
- Bitnami Akeneo
- Bitnami Alfresco
- Bitnami Ametys
- Bitnami Artifactory
- Bitnami Backendless Enterprise
- Bitnami Canvas LMS
- Bitnami Cassandra
- Bitnami Chyrp
- Bitnami CiviCRM
- Bitnami CMS Made Simple
- Bitnami Code Dx
- Bitnami Codiad
- Bitnami concrete5
- Bitnami Coppermine
- Bitnami CouchDB
- Bitnami CraftBukkit
- Bitnami CrushFTP
- Bitnami Custom Java Application
- Bitnami Custom Node.js Application

- Bitnami Custom PHP Application
- Bitnami Custom Python Application
- Bitnami Custom Ruby on Rails application
- Bitnami Diaspora*
- Bitnami Discourse
- Bitnami DokuWiki
- Bitnami Dolibarr
- Bitnami DreamFactory
- Bitnami Drupal
- Bitnami Elasticsearch
- Bitnami EnanoCMS
- Bitnami ERPNext
- Bitnami EspoCRM
- Bitnami eXo Platform
- Bitnami eZ Publish
- Bitnami Fat Free CRM
- Bitnami Gallery
- Bitnami Ghost
- Bitnami GitLab
- Bitnami Gitorious
- Bitnami Horde Groupware Webmail
- Bitnami Invoice Ninja
- Bitnami JasperReports Server
- Bitnami Jenkins
- Bitnami Joomla!
- Bitnami Kafka
- Bitnami Let's Chat
- Bitnami Liferay
- Bitnami LimeSurvey
- Bitnami Live Helper Chat
- Bitnami Magento
- Bitnami Mahara
- Bitnami Mantis
- Bitnami Mautic
- Bitnami MediaWiki
- Bitnami MODX
- Bitnami MongoDB
- Bitnami Moodle
- Bitnami Multicraft
- Bitnami MyBB
- Bitnami MySQL
- Bitnami ocPortal
- Bitnami Odoo
- Bitnami Open Atrium
- Bitnami Open edX

- Bitnami OpenCart
- Bitnami OpenERP
- Bitnami OpenProject
- Bitnami OrangeHRM
- Bitnami OroCRM
- Bitnami OSClass
- Bitnami OSQA
- Bitnami ownCloud
- Bitnami OXID eShop
- Bitnami Phabricator
- Bitnami phpBB
- Bitnami PhpCompta
- Bitnami phpList
- Bitnami Pimcore
- Bitnami Piwik
- Bitnami Pootle
- Bitnami PostgreSQL
- Bitnami Precurio
- Bitnami PrestaShop
- Bitnami ProcessMaker
- Bitnami ProcessWire
- Bitnami RabbitMQ
- Bitnami Radiant
- Bitnami Railo
- Bitnami Redis
- Bitnami Redmine
- Bitnami RefineryCMS
- Bitnami ReportServer
- Bitnami ResourceSpace
- Bitnami Review Board
- Bitnami Roller
- Bitnami Roundcube
- Bitnami SEO Panel
- Bitnami Sharelock
- Bitnami SilverStripe
- Bitnami Simple Machines Forum
- Bitnami SimpleInvoices
- Bitnami Sitecake
- Bitnami Spree
- Bitnami Squash
- Bitnami SugarCRM
- Bitnami SuiteCRM
- Bitnami TestLink
- Bitnami Tiki Wiki
- Bitnami Tiny Tiny RSS

- Bitnami topLog
- Bitnami Trac
- Bitnami Tracks
- Bitnami TYPO3
- Bitnami TYPO3 Neos
- Bitnami Venga Connector
- Bitnami Weblate
- Bitnami WebMail Pro PHP
- Bitnami WordPress
- Bitnami WordPress Multisite
- Bitnami X2CRM
- Bitnami X-Cart
- Bitnami XOOPS
- Bitnami YouTrack
- Bitnami Zurmo

Components

- Apache
- Apache Solr
- Apache Tomcat
- Bitnami Configuration Tool - bnconfig
- Bitnami console
- Bitnami info page
- Cheat Sheet
- Django
- Elasticsearch
- Gradle
- HHVM
- JBoss
- Libreoffice
- Logrotate
- Manager Tool
- MongoDB
- Monit
- MySQL
- New Relic
- Nginx
- Node.js
- PHP
- PHP Frameworks
- PHP-FPM
- phpMyAdmin and phpPgAdmin
- phpPgAdmin

- Phusion Passenger
- PostgreSQL
- Python
- Redis
- RockMongo
- Ruby on Rails
- Subversion
- Varnish
- Vsftpd
- 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.lo
130114 16:01:06 mysqld_safe Starting mysqld.bin daemon with databases fro
/opt/bitnami/mysql/scripts/ctl.sh : mysql  started at port 3306
Syntax OK
/opt/bitnami/apache2/scripts/ctl.sh : httpd started at port 80
```