

Platform Choices on Windows Azure

(It's not just ASP.NET and SQL Server)



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Windows Azure

Compute

Storage

SQL

Services

Web
Worker

Blobs
Tables
Queues

SQL
Azure
Reporting
Services

Service Bus
Caching
ACS



Windows Azure

Web Roles

Windows Server 2008 R2

IIS 7.5

For running applications

Worker Roles

Windows Server 2008 R2

No IIS

For running anything



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For running applications

Worker Roles

Windows Server 2008 R2

No IIS

For running anything*

*Well, almost anything



Windows Azure Platform Services

- Storage:
 - Blobs, Tables & Queues
 - CDN
 - SQL Azure and Reporting Services
- AppFabric Services:
 - Service Bus (relay, pub/sub, queues)
 - Caching
 - Access Control Service
- Media Services (coming soon)
 - **Streaming, transcoding, etc.**



Developer Center

Windows Azure is an open cloud platform that enables you to quickly build, deploy and manage applications across a global network of Microsoft-managed datacenters.

You can build applications using any language, tool or framework.

Languages

- 
- [.net](#) 
 - [node.js](#) 
 - [java](#) 
 - [php](#) 
 - [other](#) 

www.windowsazure.com/develop



.NET

- Visual Studio 2010 integration
- Windows Azure SDK

Node.js

- PowerShell commands
- Windows Azure SDK for Node.js

Java

- Eclipse integration
- Windows Azure SDK for Java

PHP

- Command line tools
- phpazure.codeplex.com

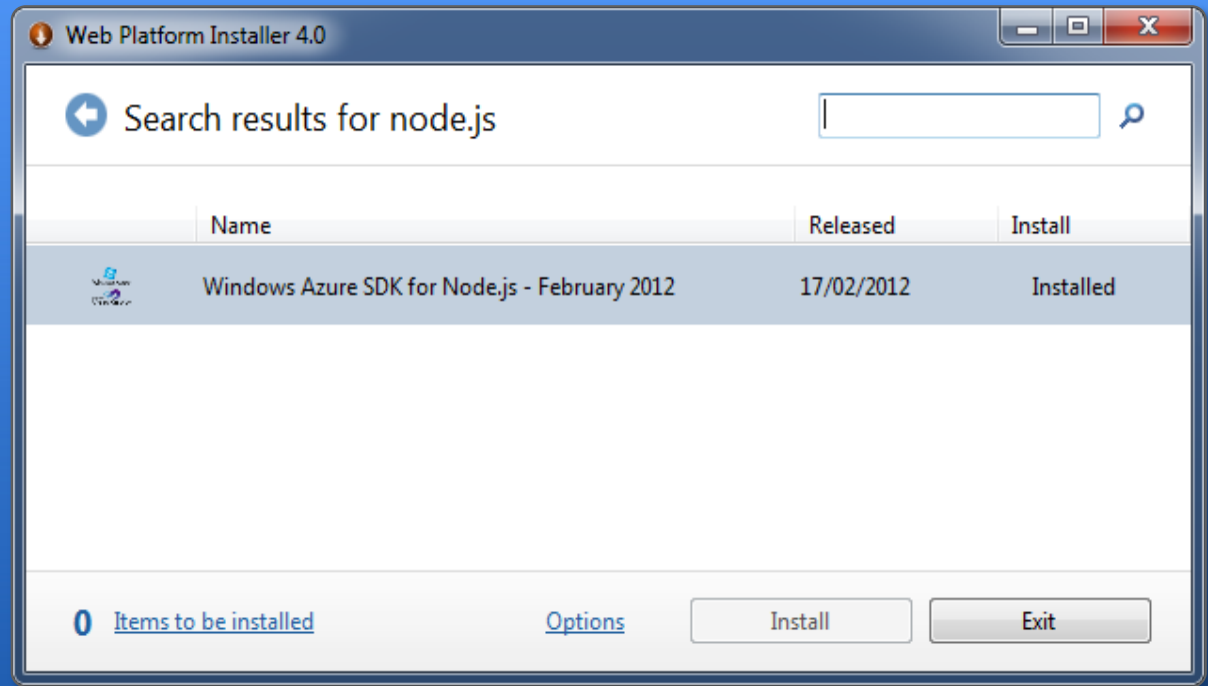
Ruby

- No official support
- `waz-storage` gem

Python

- No official support
- `winazurestorage.py`





Demo

Node.js SDK



For non-Windows people

Cloud9 IDE integration



Third-party applications

- You can run anything on Azure



Third-party applications

- You can run anything on Azure as long as:
 - It can run load-balanced
 - It has a “silent” installer
 - You control its disk access



Why load-balanced?

- Must have two instances of each role to get 99.95% SLA
- Roles will be recycled for patches, upgrades etc.



Why the “silent” installer?

- Installation has to be run automatically as part of role startup
- Can't RDP in to install software as it won't be there after a recycle



What about disk access?

- Persistent disk storage available via CloudDrive.
- CloudDrive API tells you the drive letter, not the other way around



CloudDrive

- Simulated NTFS volume
- Persisted to a VHD stored in a Paged Blob
- Beware of Blob Service charges!
 - \$0.01 per 10,000 requests
= \$1 per 1m disk writes



Demo

RavenDB on Azure



Things I run on Azure

- ASP.NET MVC 4 + ASP.NET WebApi
- Nancy & Simple.Data (.NET)
- Node.js + Express
- RavenDB
 - github.com/markrendle/AzureRavenDB
- MongoDB
 - www.mongodb.org/display/DOCS/MongoDB+on+Azure
- JRuby/Sinatra



Q&A

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