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	Worker Roles
Windows Server 2008 R2 IIS 7.5 For running applications	Windows Server 2008 R2 No IIS For running anything

Windows Azure

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*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
  - **Streaming, transcoding, etc.**

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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

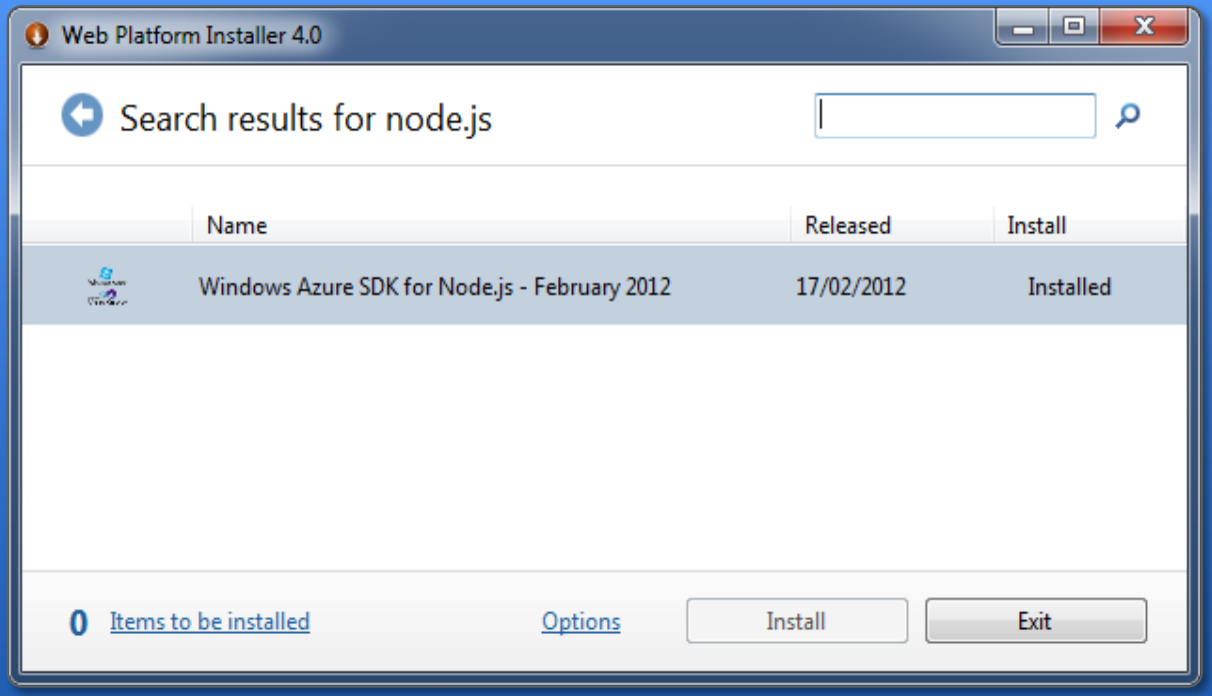
- Command line tools
- phpazure.codeplex.com

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
- Simple.Web + Simple.Data
- Node.js + Express
- RavenDB
  - github.com/markrendle/AzureRavenDB
- MongoDB
  - Officially supported by 10gen
- JRuby/Sinatra

Q&A

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