

# 通过WNS和Windows Azure发布通知

姓名

职位

公司

# 会议内容



## 查看实时磁贴

使用Windows推送通知服务的深度研究

介绍Windows 8的Windows Azure工具箱

你会学会下面例子,如何

让你的应用程序使用推送通知 使用Windows Azure创建推送服务

## 开始的实时磁贴



# 演示

# 通过推送通知实现实时磁铁

## Start





RE: Wedding Announcement! Congratulations! I'm really excited to celebrate with you all. Thanks for the ...

























Eliza Viper Creek Club Letters





Investments ▲ 2.3%

△ 3.6% △ 2.7% 401K Fund (Fidelity)

▼ 1.4% Investment Portfolio



Desktop







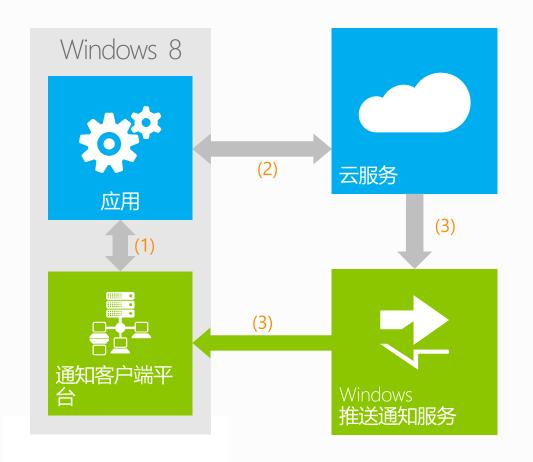
78° Anaheim, CA Tomorrow 88° / 65° Thursday 87° / 65° Friday 89° / 65° Weather

> First ever surfboard kickflip recorded in Santa Cruz by surfer Zoltan Torkos, collects \$10,000



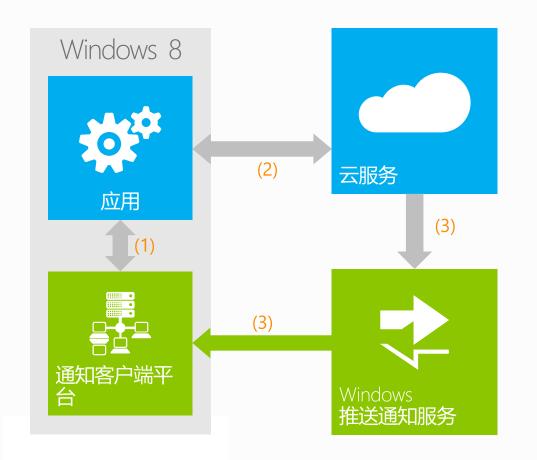
# Windows 推送通知服务 (WNS)

## 推送通知介绍



- 1. 请求渠道URI
- 2. 与你的云服务注册
- 3. 认证和推送通知

## 1. **请求渠道**URI



每个磁铁拥有一个唯一的渠 道URI

在每次执行的时候被应用程 序请求。URI会改变。

通过WNS生成

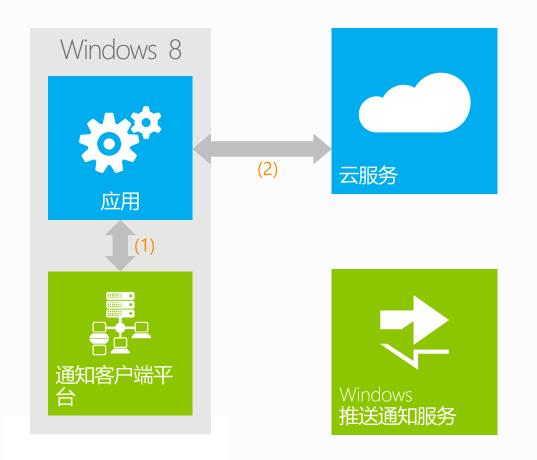
对应用透明

## 1.请求渠道URI

https://db3.notify.windows.com/?token=AQI8iP%2OtQE%3d

```
promise.then(function (ch) {
    var uri = ch.uri;
    var expiry = ch.expirationTime;
    updateChannelUri(uri, expiry);
});
```

# 2.与你的云服务注册



和你自己的云服务注册你的应用

应该被认证和安全

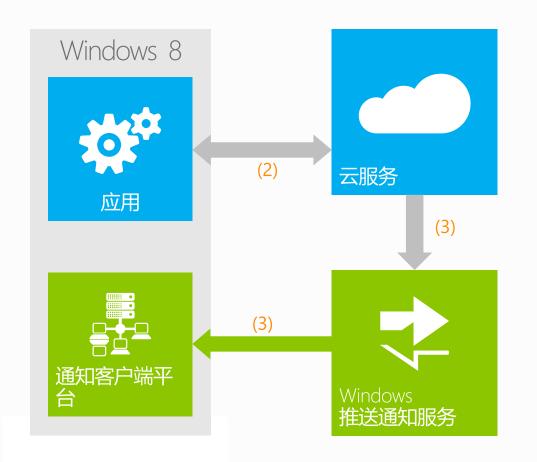
存储渠道URI并且和任何应用 定义的上下文关联

为了发送通知创建你的商业逻辑

## 2.与你的云服务注册

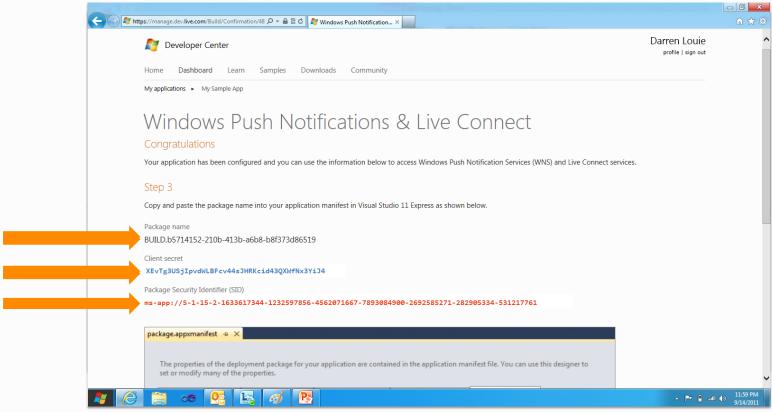
```
function updateChannelUri(channel, channelExpiration) {
   if (channel) {
   var serverUrl = "https://mysampleapp.cloudapp.net/register";
   var payload = { Expiry: channelExpiration.toString(),
                 URI: channel };
   var xhr = new WinJS.xhr({
         type: "POST",
         url: serverUrl,
         headers: { "Content-Type": "application/json; charset=utf-8" },
         data: JSON.stringify(payload)
         }).then(function (req) { ... });
```

## 3. 认证和发送通知



OAuth 2 认证 HTTP POST到渠道URI XML 通知有效负载

## 3. 注册你的应用





## 3. 认证HTTP请求

g&scope=notify.windows.com

```
Host: login.live.com

Content-Length: 221

grant_type=client_credentials&client_id=ms-app%3A%2F%2FS-1-15-2-
1633617344-1232597856-4562071667-7893084900-2692585271-282905334-
531217761&client secret=XEvTg3USjIpvdWLBFcv44sJHRKcid43QXWfNx3YiJ4
```

POST https://login.live.com/accesstoken.srf HTTP/1.1

Content-Type: application/x-www-form-urlencoded

## 3.认证HTTP响应

```
HTTP/1.1 200 OK
Cache-Control: no-store
Content-Length: 422
Content-Type: application/json
Connection: close
   "access_token":"EgAcAQMAAAAg/RBw++jdA1MzM0LTUzMTIxNzc2MQA=",
   "token type": "bearer"
```

## 3. 推送通知HTTP请求

<?xml version="1.0" encoding="utf-8"?>

<badge value="34"/>

```
POST https://db3.notify.windows.com/?token=AQI8iP%2OtQE%3d
HTTP/1.1
Content-Type: text/xml
Host: db3.notify.windows.com
X-WNS-Type: wns/badge
Authorization: Bearer EgAcAQMAAAAg/RBw++jdA1MzMOLTUzMTIxNzc2MQA=
Content-Length: 58
```



## 3. 推送通知HTTP响应

HTTP/1.1 200 OK

Content-Length: 0

X-WNS-NOTIFICATIONSTATUS: received

X-WNS-MSG-ID: 1ACD59E4683FE4BF

X-WNS-DEBUG-TRACE: DB3WNS4011434

## 重要的注解

设备可以使离线或者断线。成功意味着请求成功被WNS接受,用户不必看到它。 在响应中,对通知和设备状态有额外的头信息

## Windows 推送通知回 执



Install-Package WnsRecipe

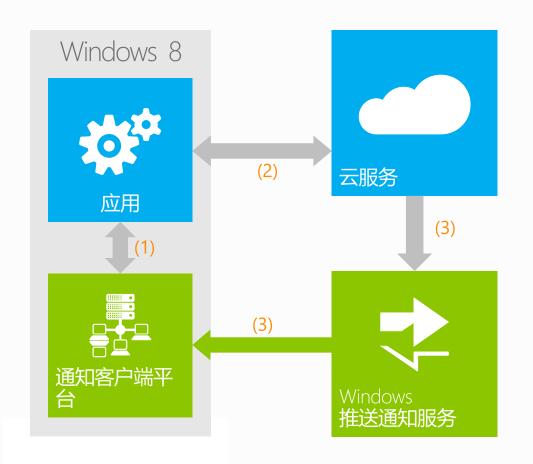
## 3. 认证嗲吗

```
//引用从NuGet安装的WnsRecipe命名空间
using NotificationsExtensions;
  构造函数需要你的包SID和密钥
IAccessTokenProvider tokenProvider = new WnsAccessTokenProvider(
  "ms-app%3A%2F%2FS-1-15-2-1633617344-1232597856-4562071667-
7893084900-2692585271-282905334-531217761",
  "XEvTg3USjIpvdWLBFcv44sJHRKcid43QXWfNx3YiJ4g");
```

## 3. 推送通知代码

```
//引用从NuGet安装的WnsRecipe命名空间
using NotificationsExtensions;
using NotificationsExtensions.ToastContent;
// 通过WnsRecipe NuGet包发送面包片通知(Toast)
var toast = ToastContentFactory.CreateToastImageAndText02();
toast.Image.Src = "https://demosa.blob.core.windows.net/toastImg1.png";
toast.TextHeading.Text = "Miguel Saenz comment on your status";
toast.TextBodyWrap.Text = "I love that quote! How have you ...";
NotificationSendResult result =
   toast.Send(new Uri("https://db3.notify.windows.com/?token=AQI8iP%2OtQE%3d")
      , tokenProvider);
                                                              iquel Saenz commented on
```

# 推送消息总结



- 1. 请求渠道URI
- 2. 与你的云服务注册
- 3. 认证和推送通知

## 用Windows Azure创建一个云服务



渠道URI注册需要安全,基于Web的API

渠道URI持久的存储

存储磁铁和面包片的图像



# 如何在 Windows Azure上实现?

### Windows Azure 计算

Web 角色 完整IIS 支持

ASP.NET MVC 和 Web API

Windows Azure 存储

表存储 Blob存储

# 基于WNS 的Windows 8 推送消息和Windows Azure



# Windows Azure提供了 随着你的应用成长扩展你的服务的资源

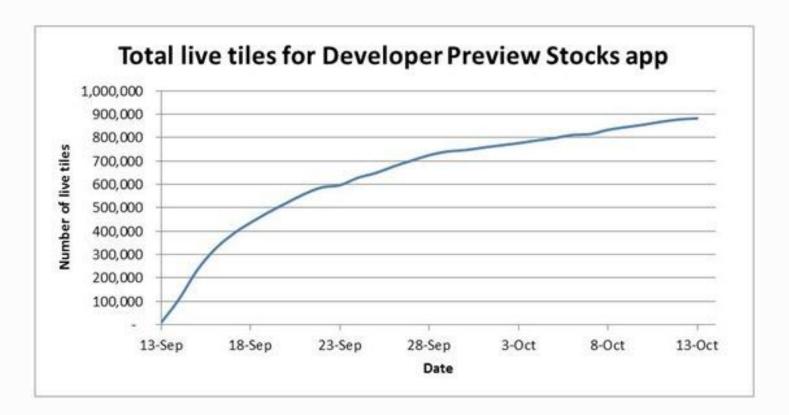


图4:注册到开发预览应用的实时磁铁

来源: http://blogs.msdn.com/b/b8/archive/2011/11/02/updating-live-tiles-without-draining-your-battery.aspx Windows Azure

## Windows Azure 服务





## 核心服务

Windows Azure 计算

Web 角色 Worker 角色

Windows Azure 存储

表存储 Blob 存储

## 帮助规模化的服务

Windows Azure 弹性扩展性

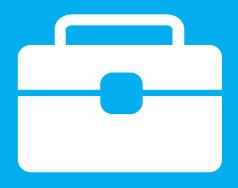
Windows Azure CDN

Windows Azure 流量管理器

Windows Azure 缓存

**Windows** Azure

# 总结



# 总结

三个简单的步骤来实现推送通知



**注册** 和你的云服务

认证和推送

WNSRecipe帮助你简单地把推送消息添加到你的服务中

Windows Azure Windows 8工具箱是开始创建服务的最好方法

Windows Azure 提供了随着你的应用增长而扩展你的而服务的资源



# 资源

### 使用WNS注册你的应用来测试

http://manage.dev.live.com/build

#### 下载Windows 8 Windows Azure工具箱

http://WATWindows8.codeplex.com

#### WnsRecipe NuGet

http://nuget.org/packages/wnsrecipe

### 通过Windows 8和Windows Azure创建连接的应用

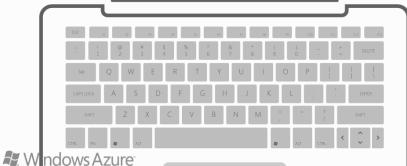
http://channel9.msdn.com/Events/TechEd/Europe/2012/AZR310

#### Windows 8 开发文档

http://dev.windows.com







# 从现在开始.

http://WindowsAzure.com

