Windows Azure

创建Windows 8和Windows Azure网站连接的应用

姓名
职位
公司

日程

基本连接性
媒体
位置
推送通知

基础

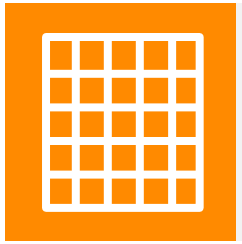
Windows Azure™

计算: 你的选项是什么?

公司内部
应用
数据
自定义软件
本地代码
防火墙
网络
O/S
虚拟化
硬件
虚拟机
应用
数据
自定义软件
本地代码
防火墙规则
虚拟网络
O/S
云服务
应用
数据
开始任务
本地代码
防火墙规则
虚拟网络
移动服务
应用
数据
认证
通知
网站
应用
数据

存储:你的选项是什么?

表存储

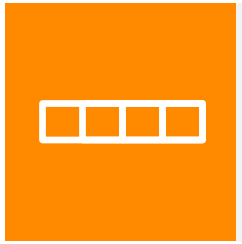


好处:
非关系型结构化存储
大规模向外扩展

Windows Azure Blobs

好处:
大文件

Windows Azure 队列



好处:
持久化的异步消息
进队列，出队列

SQL 数据库

好处:
关系型数据库
高可用性
作为服务管理

Windows 8 风格UI 应用:

语言支持

JS/HTML
C#/XAML
C++
WinRT API

今天

HttpClient
媒体
CameraCaptureUI
位置
Geolocator
通知
PushNotificationChannelManager

基本连接性

Windows Azure™

基本WebAPI + HttpClient

演示

关键的收获: 序列化的格式有影响

OData 8.5kb

REST-XML 1.2kb

```
<ArrayOfDriver
xmlns=http://schemas.datacontract.org/2004/07/ContosoWcfService.Models
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
<Driver>
<DistributionCenterId>1</DistributionCenterId>
<DriverId>1</DriverId>
<FirstName>Rob</FirstName>
<LastName>Tiffany</LastName>
</Driver>
<Driver>
<DistributionCenterId>1</DistributionCenterId>
<DriverId>2</DriverId>
<FirstName>Loke Uei</FirstName>
<LastName>Tan</LastName>
</Driver>
<Driver>
<DistributionCenterId>1</DistributionCenterId>
<DriverId>3</DriverId>
<FirstName>Dan</FirstName>
<LastName>Bouie</LastName>
</Driver>
<Driver>
<DistributionCenterId>1</DistributionCenterId>
<DriverId>4</DriverId>
<FirstName>John</FirstName>
<LastName>Dietz</LastName>
</Driver>
<Driver>
<DistributionCenterId>2</DistributionCenterId>
<DriverId>5</DriverId>
<FirstName>Derek</FirstName>
<LastName>Snyder</LastName>
</Driver>
<Driver>
<DistributionCenterId>2</DistributionCenterId>
<DriverId>6</DriverId>
<FirstName>Steve</FirstName>
<LastName>Hegenderfer</LastName>
</Driver>
<Driver>
<DistributionCenterId>2</DistributionCenterId>
<DriverId>7</DriverId>
<FirstName>Chip</FirstName>
<LastName>Vollers</LastName>
</Driver>
<Driver>
<DistributionCenterId>2</DistributionCenterId>
<DriverId>8</DriverId>
<FirstName>James</FirstName>
<LastName>Pratt</LastName>
</Driver>
</ArrayOfDriver>
```

JSON 639 bytes

```
[{"DistributionCenterId":1,"DriverId":1,"FirstName":"Nick","LastName":"Harris"},
 {"DistributionCenterId":1,"DriverId":2,"FirstName":"Rob","LastName":"Tiffany"},
 {"DistributionCenterId":1,"DriverId":3,"FirstName":"Dan","LastName":"Bouie"},
 {"DistributionCenterId":1,"DriverId":4,"FirstName":"John","LastName":"Dietz"},
 {"DistributionCenterId":2,"DriverId":5,"FirstName":"Derek","LastName":"Snyder"},
 {"DistributionCenterId":2,"DriverId":6,"FirstName":"Steve","LastName":"Harris"},
 {"DistributionCenterId":2,"DriverId":7,"FirstName":"Chip","LastName":"Vollers"},
 {"DistributionCenterId":2,"DriverId":8,"FirstName":"James","LastName":"Pratt"}]
```

媒体

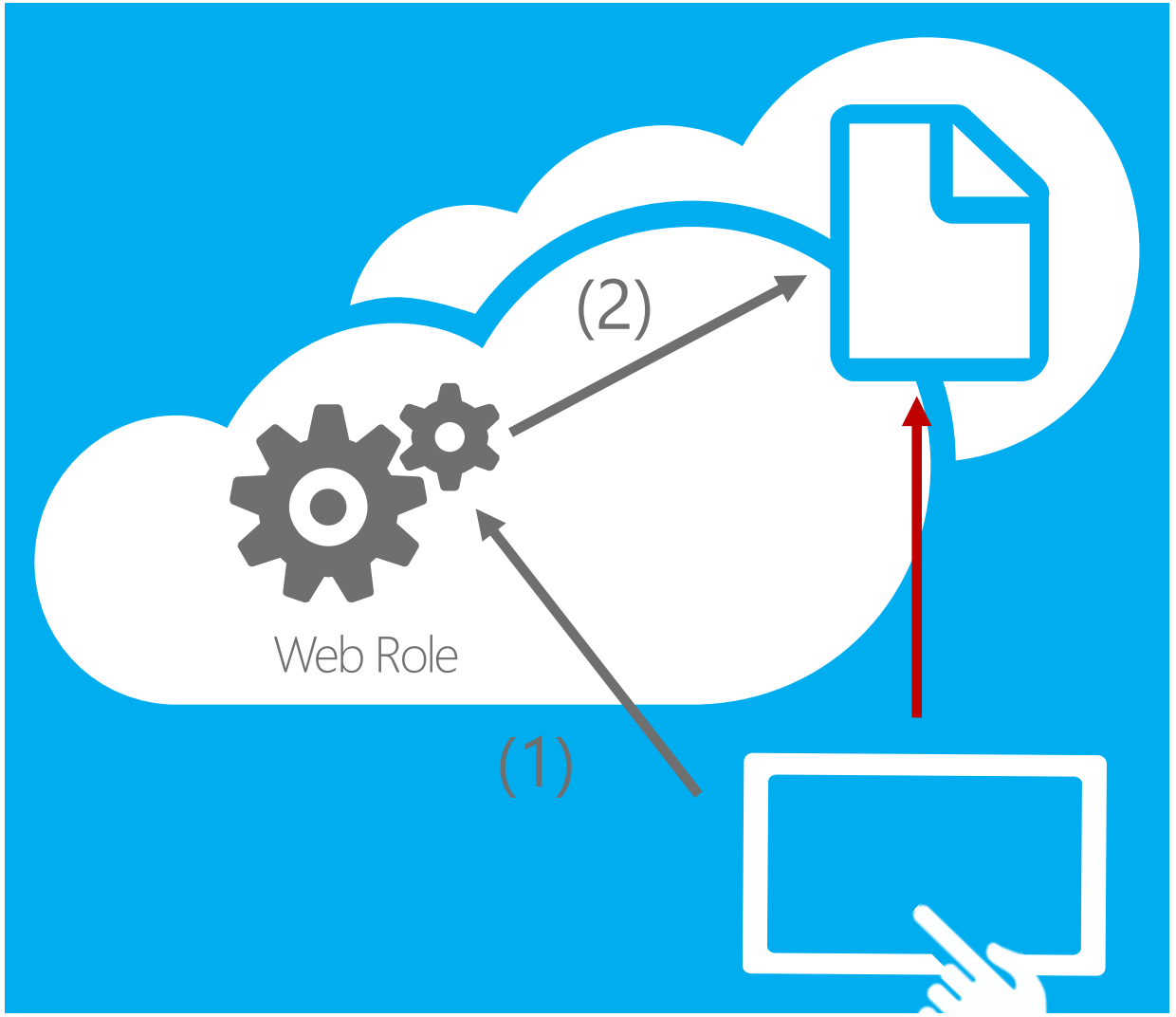
Windows Azure™

存储: 我们如何保证密钥安全？

代理请求

客户端
发送数据到web角色

Web角色
发送数据到存储



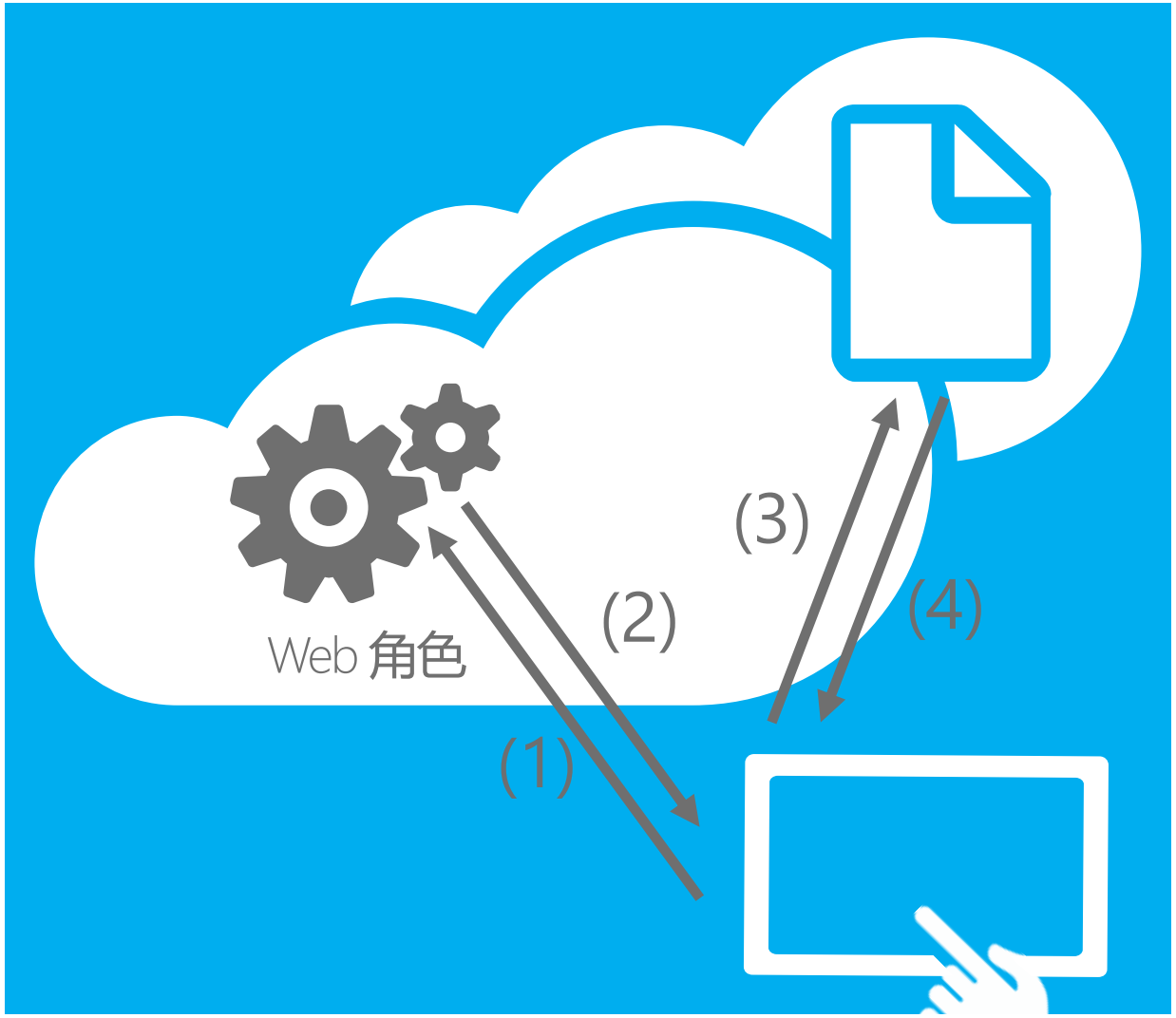
存储: 使用共享访问签名

客户端为SAS创建Web角色请求

Web角色发送客户端SAS

客户端创建读或写请求

客户端获得响应



有SAS的Blob存储

演示

下一步

优化存储调用CreateIfNotExist

并行上传大文件的块到blob

Windows Azure CDN

Windows Azure 媒体服务

使用CloudConfigurationManager来允许WAW和云服务的可移植性

地理位置

Windows Azure™

位置基础

Windows 8

Windows.Devices.Geolocation.Geolocator

Windows Azure SQL 数据库

平的地球 vs. 圆的地球

几何 vs. 地理

PointA.STDistance(PointB)

WKT → Point(Longitude Latitude)

Geography::STPointFromText('Point(Longitude Latitude)', 4326)

更多细节- http://bit.ly/rFiLhN

增加位置

Demo

EF 4.3.1 vs >= 5.0 有部分数据

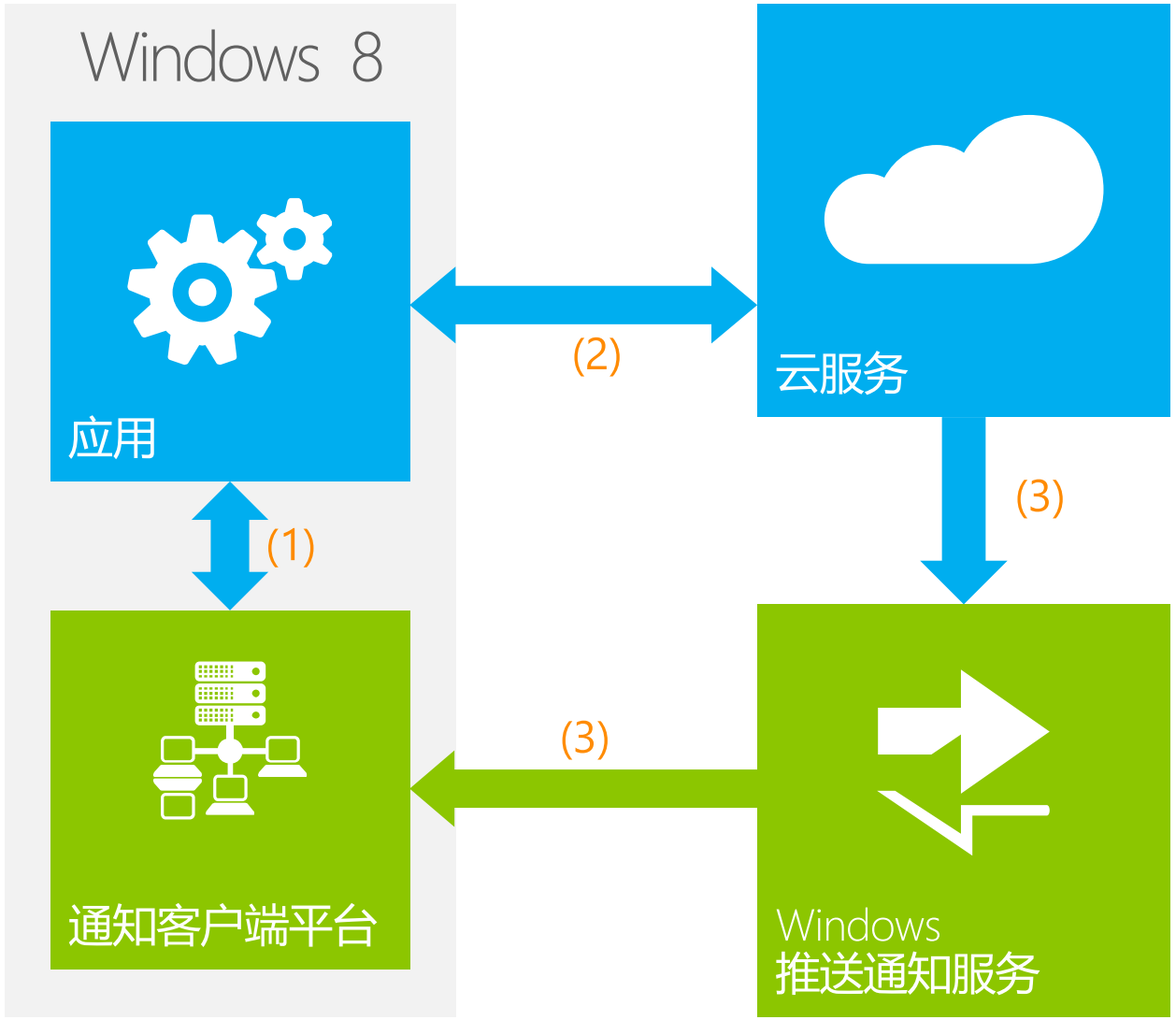
```
public class LocationContext : DbContext
{
    public DbSet<PointOfInterest> PointOfInterest { get; set; }
}{
    public class PointOfInterest
using (var db = new LocationContext())
    {
{       public Guid Id { get; set; }
    return db.PointOfInterest.Where(p => p.Location.Distance(origin) <= radiusInMeters);
        [StringLength(200)]
}       public string Description { get; set; }
        public PointOfInterstType Type { get; set; }
        public string Url { get; set; }

        public DbGeography Location { get; set; }
    }
}
```

推送通知

Windows Azure™

推送通知生命周期



1. 请求渠道URI
2. 与你的云服务注册
3. 认证和推送通知

推送通知

演示

下一步

处理MessageSendResult

在Worker角色实现通知

非常丰富的Windows 8上的通知模板，熟悉他们:

Win8TileTypes – http://bit.ly/A8GuVg
Win8ToastTypes – http://bit.ly/MDHfJ4
Win8BadgeTypes – http://bit.ly/LTf4GP

尝试NuGets

http://nuget.org/packages/windows8.notifications
http://nuget.org/packages/windowsazure.notifications
http://nuget.org/packages/wnsrecipe

应用程序块

总结

大约~1.25hr使用Windows 8 + Windows Azure

基本连接性
媒体
位置
推送通知

源代码示例

下载源代码:

http://www.nickharris.net/2012/06/building-connected-windows-8-apps-with-windows-azure/

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

备注:

对例子你需要更新存储账户名字+密钥以及更新SQL连接字符串

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