

DWX 2013
Thorsten Hans

The new Age of SharePoint Dev

about me

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Roadmap

history of dev models

why Apps for SharePoint

Hosting Options

Demos

IDEs

PreRequirements

History

SharePoint 2007

- Full trust solutions
- GAC Deployment
- Server File-System Access

History

SharePoint 2010

- Farm Solutions

- GAC Deployment
- Server File-System Access
- .NET Code / JavaScript

- Sandbox Solutions

- No GAC Deployment
- No File-System Access
- Partially trusted
- .NET Code / JavaScript
- Isolated by process

SharePoint 2013

- Support for Farm Solutions (OnPremise) and Sandboxed Solutions
- SharePoint App Model

Why does SharePoint need Apps

- Meet requirements
 - Isolation per App
 - Replace bad security concepts for Farm Solutions and Sandboxed Solutions
 - Define permissions per App
 - Get rid of custom code, that messes the Farms

Why does SharePoint need Apps

Provide better Administration and Monitoring Tool

- Developer / ISV
 - Usage statistics
 - Selling statistics
- Administrator
 - Error Monitoring
- User
 - Install Apps
 - Remove Apps

SharePoint Apps

- Everything is an App
 - Lists
 - Libraries
 - ContentTypes
 - Templates



SharePoint Apps

- Consume Apps
 - from the SharePoint Store
 - from your Corporate Catalog



Hosting options

- Two different hosting options
- Cloud-Hosted Apps
 - Auto-Hosted Apps (only SharePoint Online)
- SharePoint-Hosted Apps

Cloud-Hosted Apps

Auto-Hosted App

SharePoint Web

REST or CSOM

App Web

App Web

Provider-Hosted App

SharePoint Web

REST or CSOM

App Web

App Web

- Uses linked Windows Azure Account
- Automated Provisioning
 - Windows Azure Websites
 - SQL Azure Database

- Use your infrastructure
- Take care about
 - Isolation / Multi-tenancy
 - Load Balancing / Availability

AppWeb and HostWeb

- HostWeb

- Your SharePoint site
- App is accessible from
here (Site Contents)

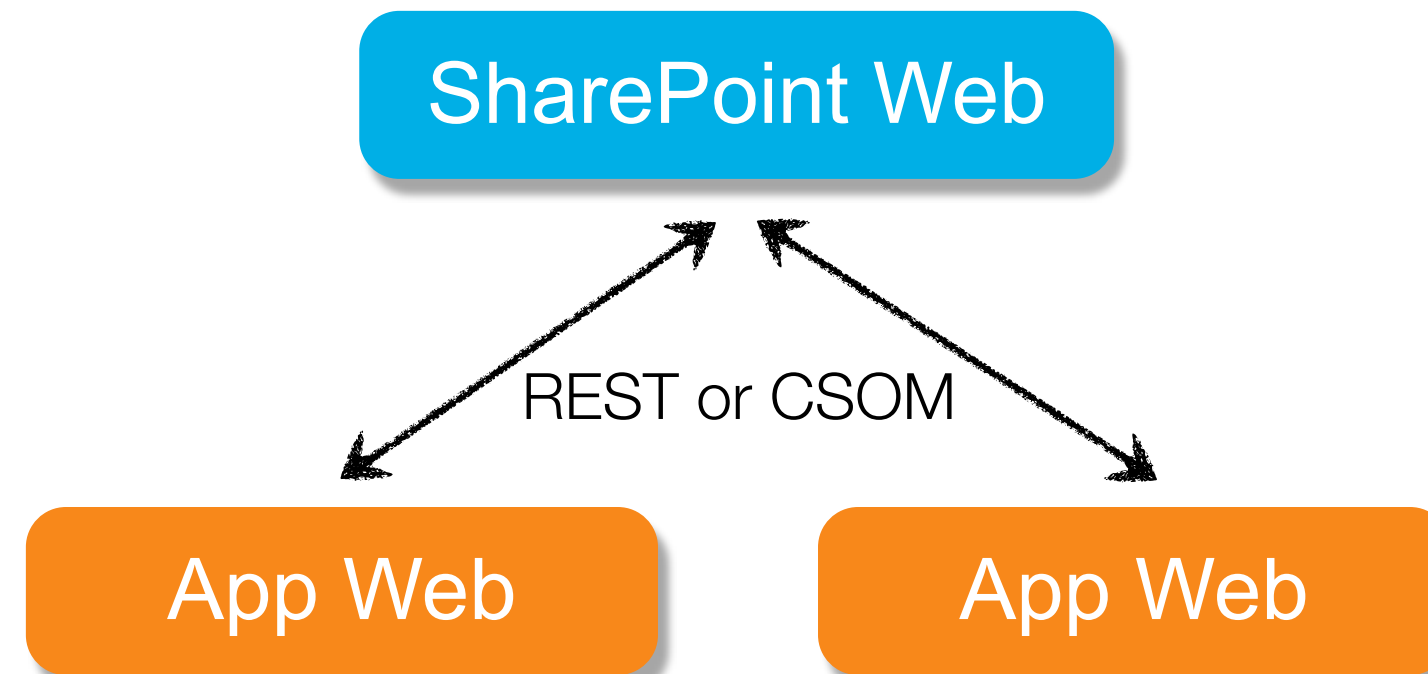
- AppWeb

- processing your App
- hidden from the User
- container for your stuff
(lists, content types,...)

A man in a white shirt and dark tie is lying on his back on a light-colored floor. His legs are raised and bent at the knees, with his feet pointing towards the camera. The soles of his dark-colored shoes are visible, showing a textured, wavy pattern. The man's face is visible in the background, looking upwards.

**Auto-Hosted
is most relaxing one**

SharePoint-Hosted Apps



- may not contain Server-Side code
- HTML / JS / CSS
 - declarative SPI's

Microsoft says

The App Model is

the **new default**

Developers benefits

- finally web standards
 - OAuth 2.0
 - REST endpoints for data and services
 - Extended JS framework (CSOM)
- No local SharePoint is required (for building Apps)



**Let's build
an App !**

OAuth 2.0

- Apps have to request permissions
 - Read data..
 - Query search...
- App may act in the behalf of the user
- Requires complete HTTPS chain

Roles in OAuth 2.0

- Resource Owner

- typically the user of the application

- Resource Server

- Server that holds protected resources

- Client

- The App that would like to access protected resources

- Authorization Provider

- Issues access tokens to clients

Let's create an Auto-Hosted App



Development Machines

- SharePoint App-Dev
 - any device with VS2012
- Regular SharePoint-Dev
 - 24 GB RAM for good experience

Windows Azure IaaS
(for regular SharePoint-Dev you should go for an ExtraLarge Azure-VM Machine)

IDE Choices

- VS 2012
 - any kind of SharePoint / Office 365 development
- Napa
 - SharePoint Online App-Dev (SharePoint-Hosted Apps only)

All code samples are online
for free at github

<http://github.com/ThorstenHans/Conferences/>

Thx for your attention! ;-)





EXPERTS INSIDE