



C.E.U.S

by Iberian SharePoint Conference



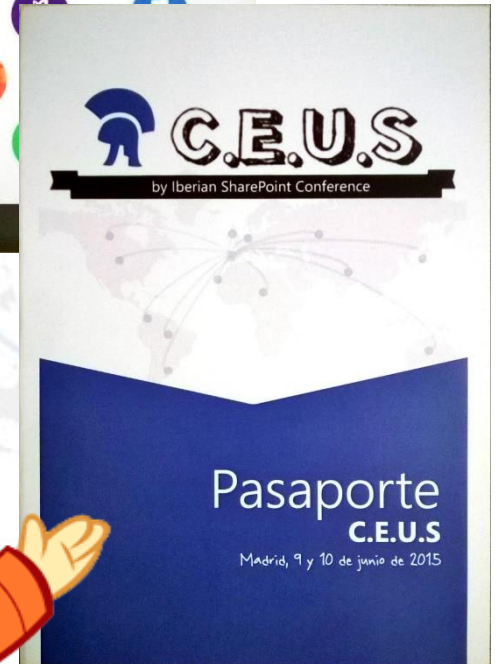
Madrid, 9 y 10 de junio de 2015





¡Completa tu pasaporte!

- Debes recorrer todos los stand de la conferencia
- Solicita en cada stand su pegatina
- Pégalas todas en el pasaporte
- Una vez relleno, **solicita** a la azafata del mostrador interno (al lado del auditorio) tu **número de participación**
- ¡El pasaporte completo **te permitirá** participar en el sorteo de los regalos de la conferencia!





¡Rellena tu encuesta!

- No olvides **rellenar las dos hojas** de encuesta.
- Una vez relleno, **entrégala** a la azafata del mostrador interno (al lado del auditorio).
- La azafata te entregará la bolsa con el **regalo** de la conferencia.





Paolo Pialorsi

PiaSys.com

Office 365 Developers Patterns and Practices Core Team

MCSM – Charter SharePoint & Office 365 MVP

<http://www.piasys.com/>

paolo@pialorsi.com

@PaoloPia



Remote Provisioning with the new PnP Provisioning Engine



What is OfficeDev PnP?



Office 365

Developer Patterns & Practices

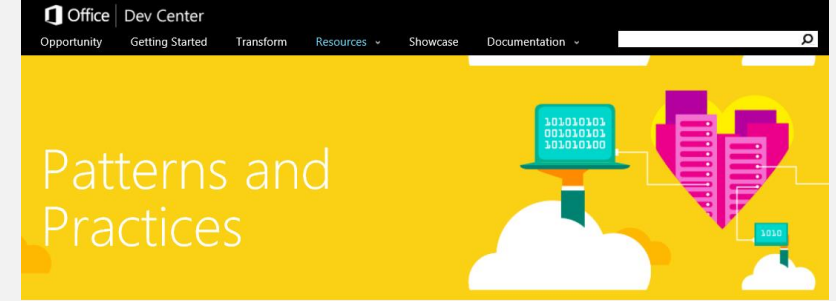
aka.ms/OfficeDevPnP

aka.ms/OfficeDevPnP Yammer

aka.ms/OfficeDevPnP MSDN

aka.ms/OfficeDevPnP Videos

aka.ms/OfficeDevPnP Training



About Patterns and Practices

The Patterns & Practices initiative was originally formed in 2013 by a group of Microsoft consultants who were working on the transformation effort of the Office 365 Dedicated customers to Multi-Tenant. This involved taking the SharePoint full Trust Code Solutions and transforming the customizations to the App Model. During this process there were many valuable assets created which are now shared publicly on GitHub.com. The PnP team has now extended to community contributions and is evolving rapidly to illustrate the common patterns and practices for the SharePoint App Model with contributions from the external and internal field. Here's the actual PnP Core team who control miscellaneous efforts around this initiative.



Contact

You are more than welcome to join the team on helping to provide samples which shows different patterns and practices towards app model development with SharePoint, Office 365 APIs and Office client. Currently this project is very focused on the SharePoint scenarios, but we are keeping a keen eye towards including the all-up Office Developer story as we move forward. Your submissions on this area are more than welcome.

The Patterns and Practices team collaborate in [the yammer group](#) within the office 365 technical network. *"Sharing is caring!"*

How to get started or contribute?

Check details on how to get started from our [PnP GitHub Wiki](#), which contains step-by-step instructions on setting up your environment for GitHub usage. GitHub is slightly different tool than TFS, if you have used that in the past, but this guidance will provide you all you need to setup your environment with GitHub and how you can always pull down the latest code to your personal GitHub fork.

Latest News

- [PnP Case Study: Finnish intranet provider expands business by moving to a cloud add-in model](#)
- [Monthly Update 2015 May](#)
- [New SharePoint CSOM version released for Office 365](#)
- [Monthly Update 2015 April](#)
- [New API updates in Client Side Object Model \(March 2015 CU for SP2013\)](#)
- [Monthly Update 2015 March](#)
- [Hybrid site collection provisioning from Azure to on-premises SharePoint](#)
- [Asynchronous on-demand site collection provisioning to Office 365 with Azure WebJobs](#)

Themes

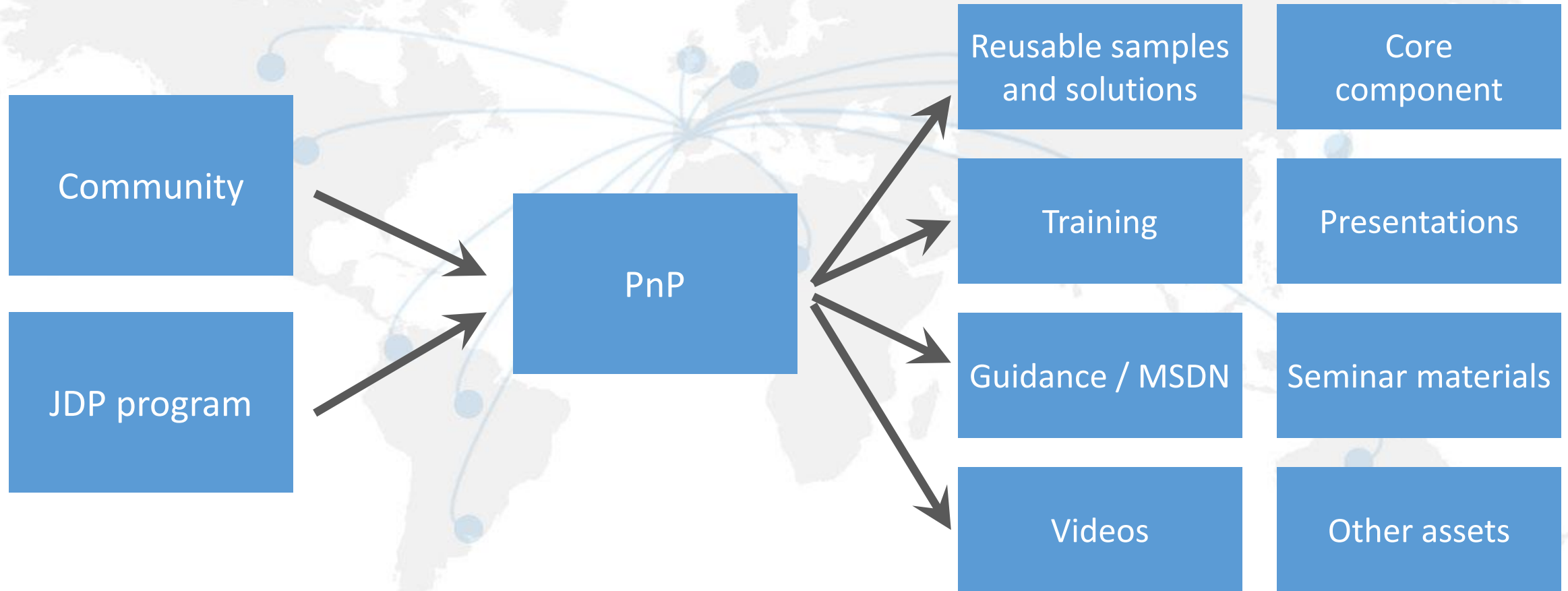
- [Site Provisioning](#)
- [Branding](#)
- [Remote Connections](#)
- [Embed JavaScript](#)

Recent Samples

- [Core.MMSNavigationSample](#)
From Ashish Trivedi ([Redify](#)). Demonstrates how to build taxonomy driven navigation cross site collections.



PnP Model





Understanding Remote Provisioning



How to Provision Artifacts in SP/SPO?

- “Once upon a time” there was the SharePoint Feature Framework
 - XML based provisioning of artifacts
 - CAML based syntax
- We had Full Trust Code (FTC) WSP packages and Sandboxed Solutions
- However FTC solutions work only on-premises
 - No way to have FTC in Microsoft Office 365
- Sandboxed Solutions are partially deprecated
 - No more code-based Sandboxed Solutions
- Feature Framework in general is painful
 - Issues about maintenance, control on results, versioning, etc.



Is there any suitable alternative?

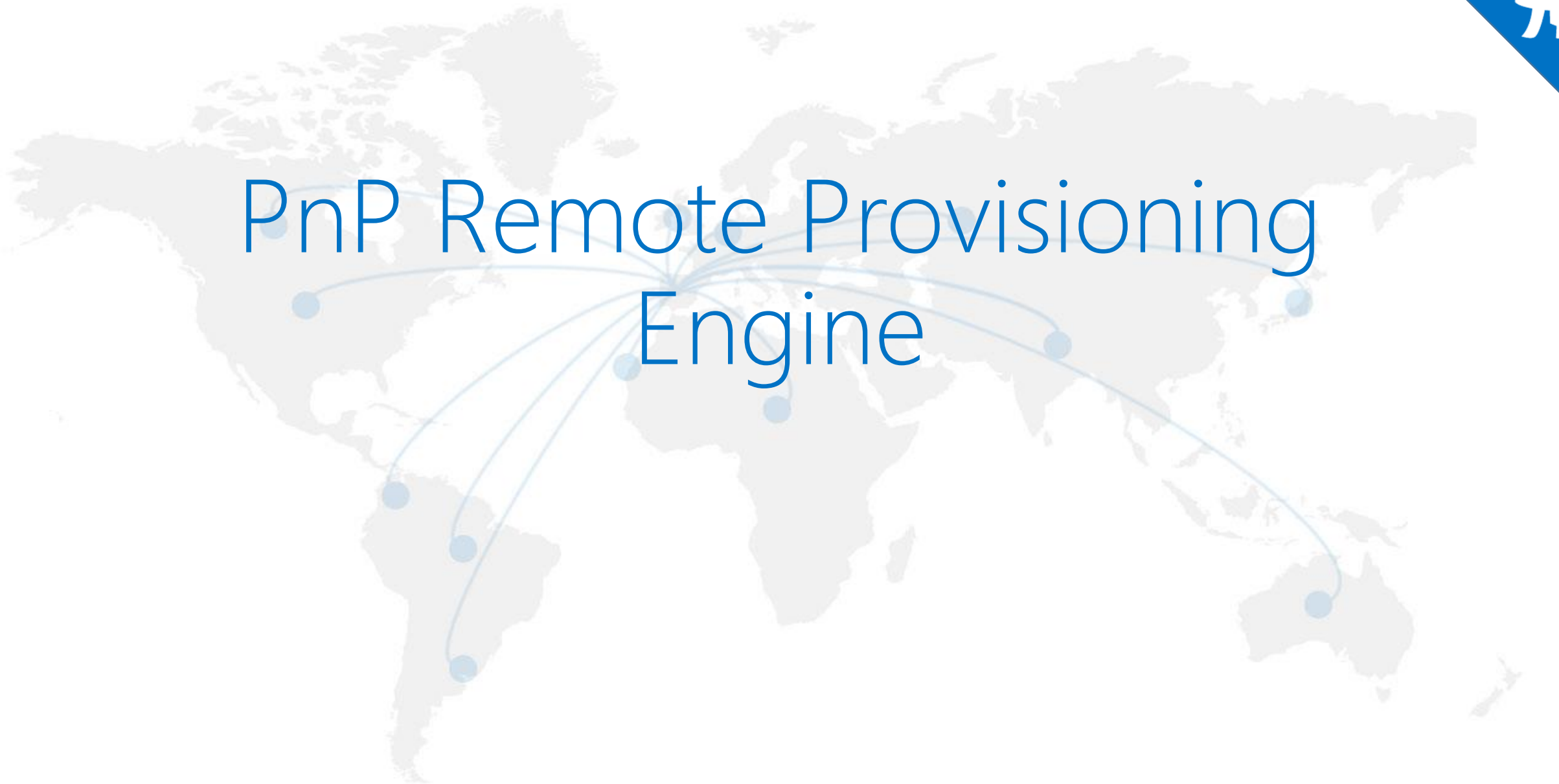


Remote Provisioning

- We can use code and programming to provision artifacts
 - Client Side Object Model (CSOM) is a good option
- Main Benefits
 - Based on a remote pattern (REST/JSON) + Client Libraries
 - From anywhere (SharePoint Add-in, Timer Job, PowerShell, Console App, etc.)
 - Can be applied both on-premises and in SharePoint Online
- Some Disadvantages
 - Developer-only, no UI/UX and not for business users
 - Sometime complex and/or verbose in its syntax
 - The maintenance can be still painful



Demo: Remote Provisioning with CSOM



PnP Remote Provisioning Engine

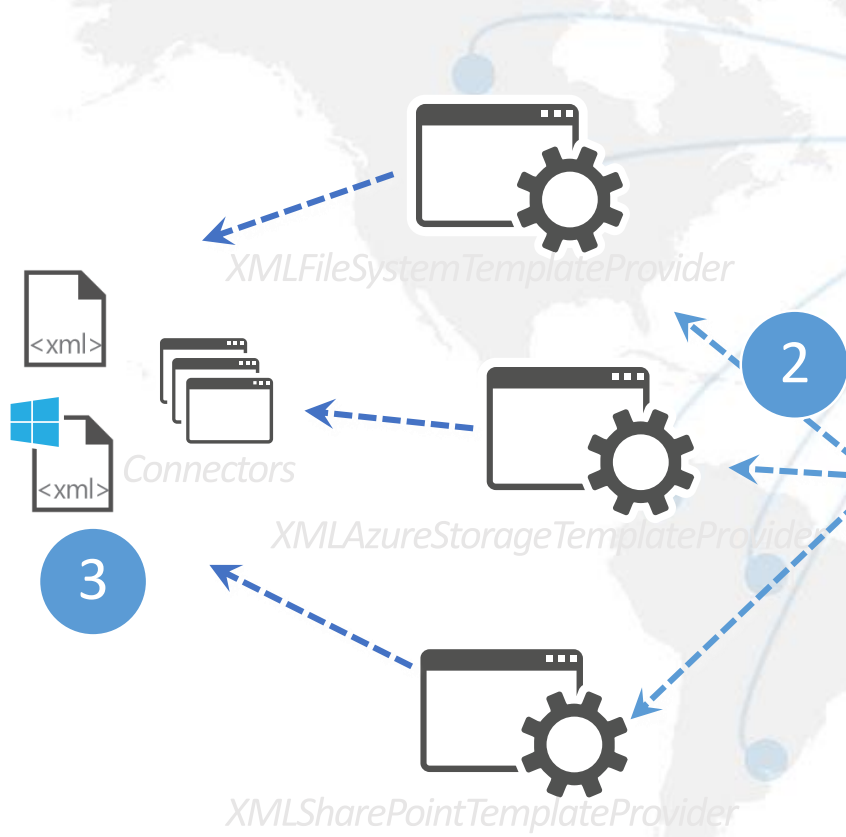
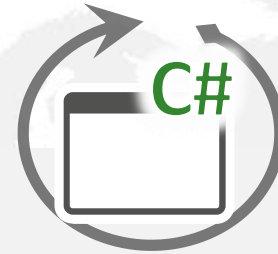


What is the PnP Provisioning Engine?

- Framework for easily doing Remote Provisioning
 - Part of the OfficeDev PnP Core Library
 - Object Oriented engine for easy and fast Remote Provisioning
- Capabilities
 - Automated Remote Provisioning
 - Easy Site Template Generation/Extraction
 - Available in Microsoft .NET
 - There are PowerShell extensions for common tasks
- Export/Import of templates in a formatter-independent manner
 - XML Schema – community defined
 - JSON
 - Whatever else ...



Site Provisioning Framework

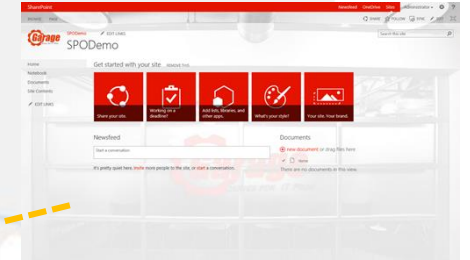


```
// Get template from existing site  
template = ctx.Web.GetProvisioningTemplate();
```

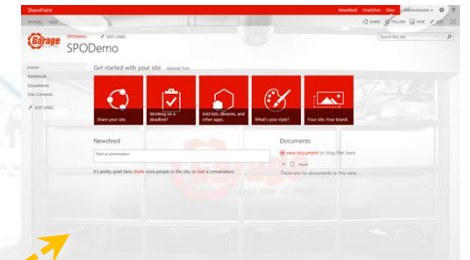
```
// Save template using XML provider  
XMLFileSystemTemplateProvider provider =  
    new XMLFileSystemTemplateProvider(@"c:\temp\", "");  
string templateName = "template.xml";  
provider.SaveAs(template, templateName);
```

```
// Load the saved model again  
ProvisioningTemplate p2 =  
    provider.GetTemplate(templateName);
```

```
// Apply template to existing site  
ctxTarget.Web.ApplyProvisioningTemplate(template);
```



Site A



Site B



Demo: Playing with the PnP Provisioning Engine



PnP Provisioning Engine Roadmap

- What is on the roadmap (main goals)
 - On-premises support improvements
 - Delta templates
 - Document Set
 - Security
 - App Management
 - Publishing capabilities
 - Workflows
 - Full CSOM alignment (1:1)
- It is a community project
 - Feel free to contribute with Issues, Pull Requests, Yammer threads



Office 365

Developer Patterns & Practices

Office Dev Center

Opportunity Getting Started Transform Resources Showcase Documentation

Patterns and Practices

Samples Scenarios Solutions Guidance

About Patterns and Practices

The Patterns & Practices initiative was originally formed in 2013 by a group of Microsoft consultants who were working on the transformation effort of the Office 365 Dedicated customers to Multi-Tenant. This involved taking the SharePoint full Trust Code Solutions and transforming the customizations to the App Model. During this process there were many valuable assets created which are now shared publicly on GitHub.com. The PnP team has now extended to community contributions and is evolving rapidly to illustrate the common patterns and practices for the SharePoint App Model with contributions from the external and internal field. Here's the actual PnP Core team who control miscellaneous efforts around this initiative.

Transform your code

Providing App Model Patterns for common Full Trust Code scenarios

130+ Visual Studio projects Common scenarios

- Branding
- Site provisioning
- Remote event receivers
- Large file support
- Taxonomy driven navigation
- And much more...

Contribute

This is open source project and open for contributions

aka.ms/OfficeDevPnP

Q&A



Paolo Pialorsi

PiaSys.com

Office 365 Developers Patterns and Practices Core Team

MCSM – Charter SharePoint & Office 365 MVP

<http://www.piasys.com/>

paolo@pialorsi.com

@PaoloPia





C.E.U.S

by Iberian SharePoint Conference

