

DevOps & ALM

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Agenda

Styling Angular Components

Comparing Angular Material & Bootstrap

Theming Overview

Building a Reusable Theme

Define Alternative Themes

Use Fore- and Back-Color

Use Theme Mixins

Theming Custom Components



Application Lifecycle Management - ALM



PowerShellGet

Package Manager for PowerShell

- Just like NuGet for C#

Installation

- `Install-Module -Name PowerShellGet -Force`

Reference @ <https://docs.microsoft.com/en-us/powershell/module/powershellget/?view=powershell-6>

PnP PowerShell

Makes Deployment of Add-Ins easier

Cmdlet	Description	Platform
<u>Add-PnPApp</u>	Add/uploads an available app to the app catalog	SharePoint Online
<u>Get-PnPApp</u>	Returns the available apps from the app catalog	SharePoint Online
<u>Install-PnPApp</u>	Installs an available app from the app catalog	SharePoint Online
<u>Publish-PnPApp</u>	Publishes/Deploys/Trusts an available app in the app catalog	SharePoint Online
<u>Remove-PnPApp</u>	Removes an app from the app catalog	SharePoint Online
<u>Uninstall-PnPApp</u>	Uninstalls an available add-in from the site	On Premises, SharePoint Online
<u>Unpublish-PnPApp</u>	Unpublishes/retracts an available add-in from the app catalog	SharePoint Online
<u>Update-PnPApp</u>	Updates an available app from the app catalog	SharePoint Online
<u>Get-PnPAppInstance</u>	Returns a SharePoint AddIn Instance	On Premises, SharePoint Online
<u>Uninstall-PnPAppInstance</u>	Removes an app from a site	On Premises, SharePoint Online
<u>Import-PnPAppPackage</u>	Adds a SharePoint Addin to a site	On Premises, SharePoint Online

Office 365 PowerShell / PnP Powershell

PowerShell providers that allows Management of O365 (not only SharePoint)

Office 365 PS @ <https://docs.microsoft.com/en-us/office365/enterprise/powershell/connect-to-office-365-powershell>

PnP PS @ <https://docs.microsoft.com/en-us/powershell/sharepoint/sharepoint-pnp/sharepoint-pnp-cmdlets?view=sharepoint-ps>

```
$orgName="integrationsonline";  
Connect-PnPOnline -Url https://$orgName.sharepoint.com -Credentials (Get-Credential)  
New-PnPWeb -Title "PnP Web" -Url pnpWeb -Description "SPWeb created using PnP" -Locale 1033 -Template "STS#0"
```


CLI for Microsoft 365

Node.js base CLI

- Runs on any Platform
 - `npm i -g @pnp/cli-microsoft365`
- Solves Common Tasks:
- Provisioning/ Configuration
- SPFx Solution Upgrading
- Working with Site Designs
-



`spo list add`

Creates list in the specified site

Usage

```
spo list add [options]
```

Options

Option	Description
<code>--help</code>	output usage information
<code>-t --title</code> <code><title></code>	Title of the list to add
<code>--baseTemplate</code> <code><baseTemplate></code>	The list definition type on which the list is based. Allowed values Announcements Contacts CustomGrid DataSources DiscussionBoard DocumentLibrary Events GanttTasks GenericList IssuesTracking Links NoCodeWorkflows PictureLibrary Survey Tasks WebPageLibrary WorkflowHistory WorkflowProcess XmlForm. Default GenericList

Provisioning Engine

Microsoft 365 Provisioning

O365 Provisioning is always Remote

- No Definition Files

Remote Provisioning Samples published @<https://provisioning.sharepointnp.com/>

THE LANDING

News, resources, personalized content

This communication site is designed to be the place where your employees can find the news and resources they need, plus personalized content tailored just for them.

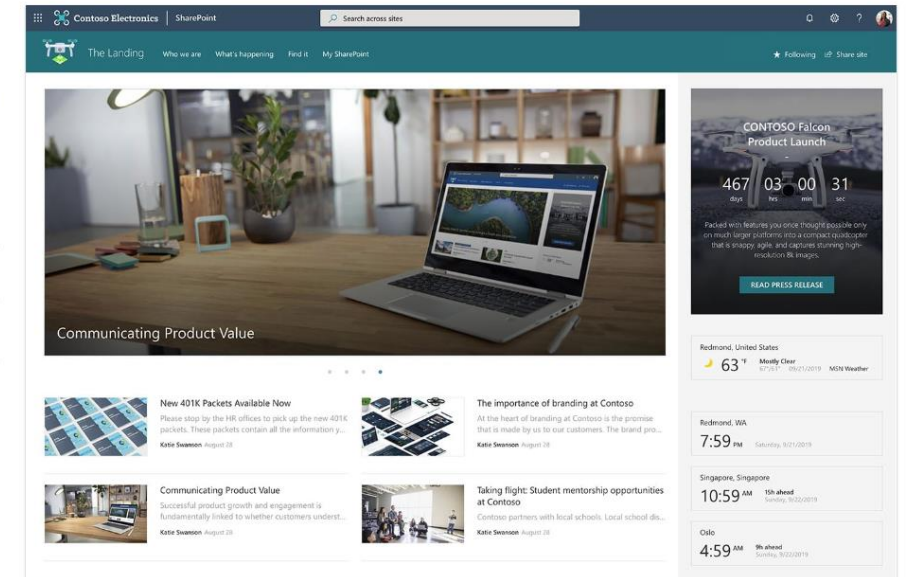
Site features

Web parts used

Content included

[Add to your tenant >](#)

You must be a tenant administrator to deploy this solution.



Provisioning Engine

Framework for easily doing Remote Provisioning

- Part of the OfficeDev PnP Core Library
- Object Oriented engine for easy and fast Remote Provisioning

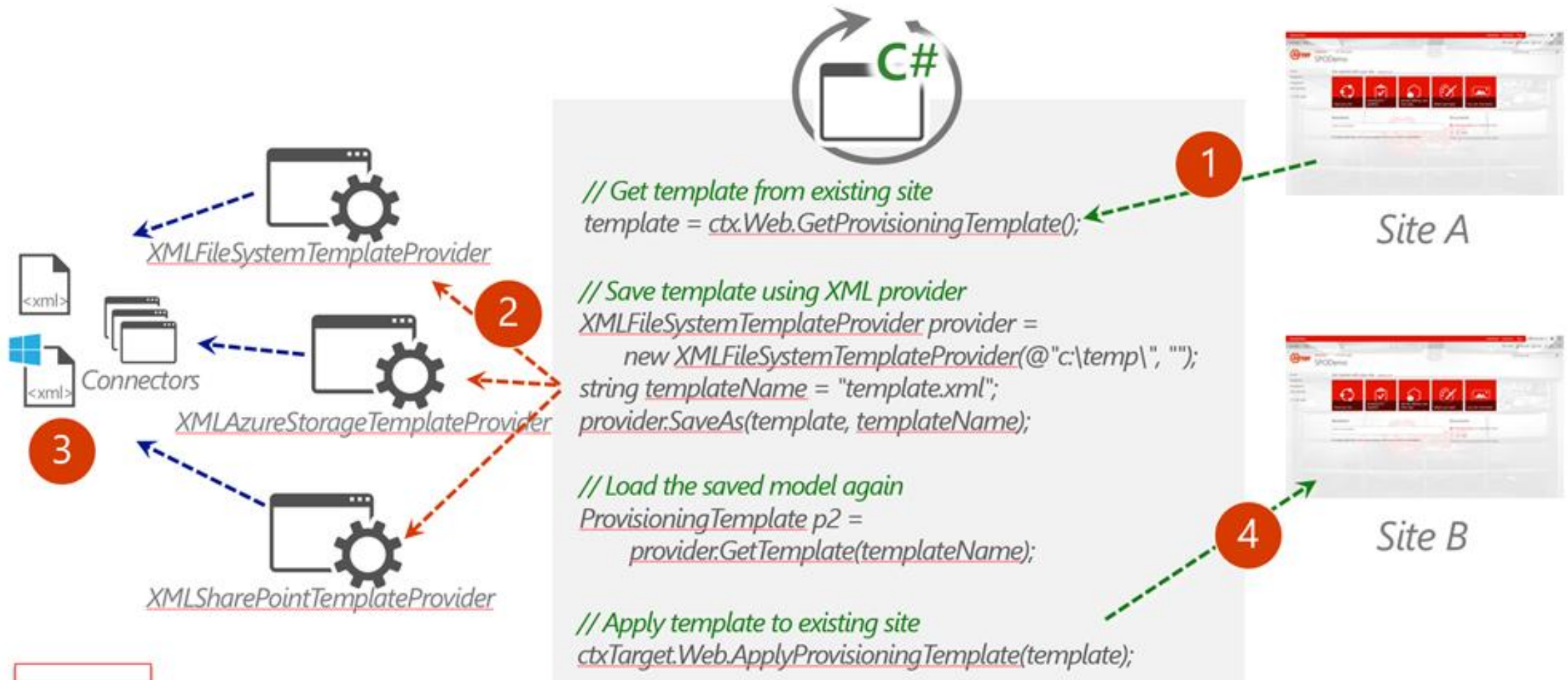
Capabilities

- Automated Remote Provisioning
- Easy Site Template Generation/Extraction
- Available in Microsoft .NET, PowerShell

Supports templating of sites and artifacts

- Reusable, updatable (delta handling)

How does it work?



What's included?

SP2013, SP2016 and SPO

Delta templates

XML, JSON formatter

Site Columns

Content Types

Lists/Libraries Instances

Features (Site or Web)

Custom Actions (Site or Web)

Files/Pages (Wiki, WebPart)

Taxonomies

Composed Look

Site Policies

Web Settings

Regional Settings

UI Languages

Resource Files

Audit Settings

Workflows (SPD only)

Search Settings

Publishing (including Page Layouts)