Setting Up Your Own Private, Secure Package Repository – Why and How

Darwin Sanoy
Senior Cloud Architect and a Team Lead for Windows & Linux DevOps Tooling
At Infor (Large Portfolio SaaS Company)
Open Source Software Packaging (Chocolatey + More)
Software Deployment Automation Since 1990
Blog: http://cloudywindows.io Twitter: @DarwinTheorizes GitHub: DarwinjS

FOSS Packages

Benefits

- Great Source of Starter Packages
- Many Directly Usable
- Many Actively Maintained
- Source of Packaging Automation Patterns
- Automated QA / Virus Checking (choco)

Challenges

- In-depth Configuration and Customization
- QA Test Targeting and Variability
- Timely Updates
- Platform / Integration Targeting = Latest
- Package Security

Curation of Public Packages

- Control Security
- Control Quality
- Guarantee Availability
- Improve Performance
- Reduce Cost
- Change Management

Package Managers: Shave Fewer Yaks

Decoupled & Encapsulated Automation Artifacts

Greatly Simplified Unit Testing

ANSIBLE

CHEF

puppet labs

PowerShell

SCCM

Azure Automation

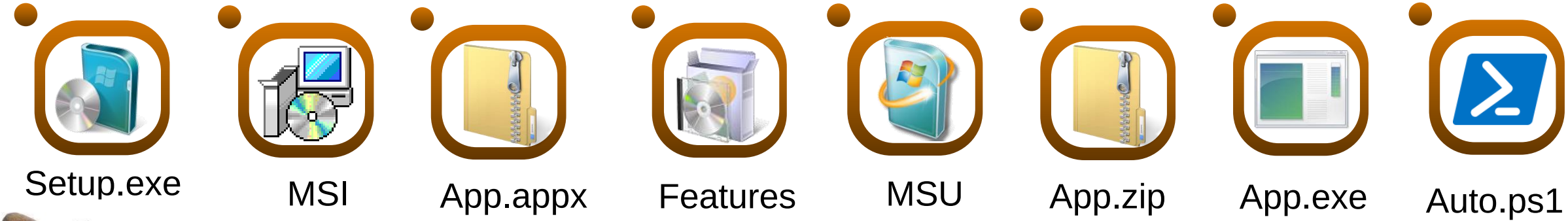
Cloud Formation

TeamCity

go

TFS

Octopus Deploy



Setup.exe

MSI

App.appx

Features

MSU

App.zip

App.exe

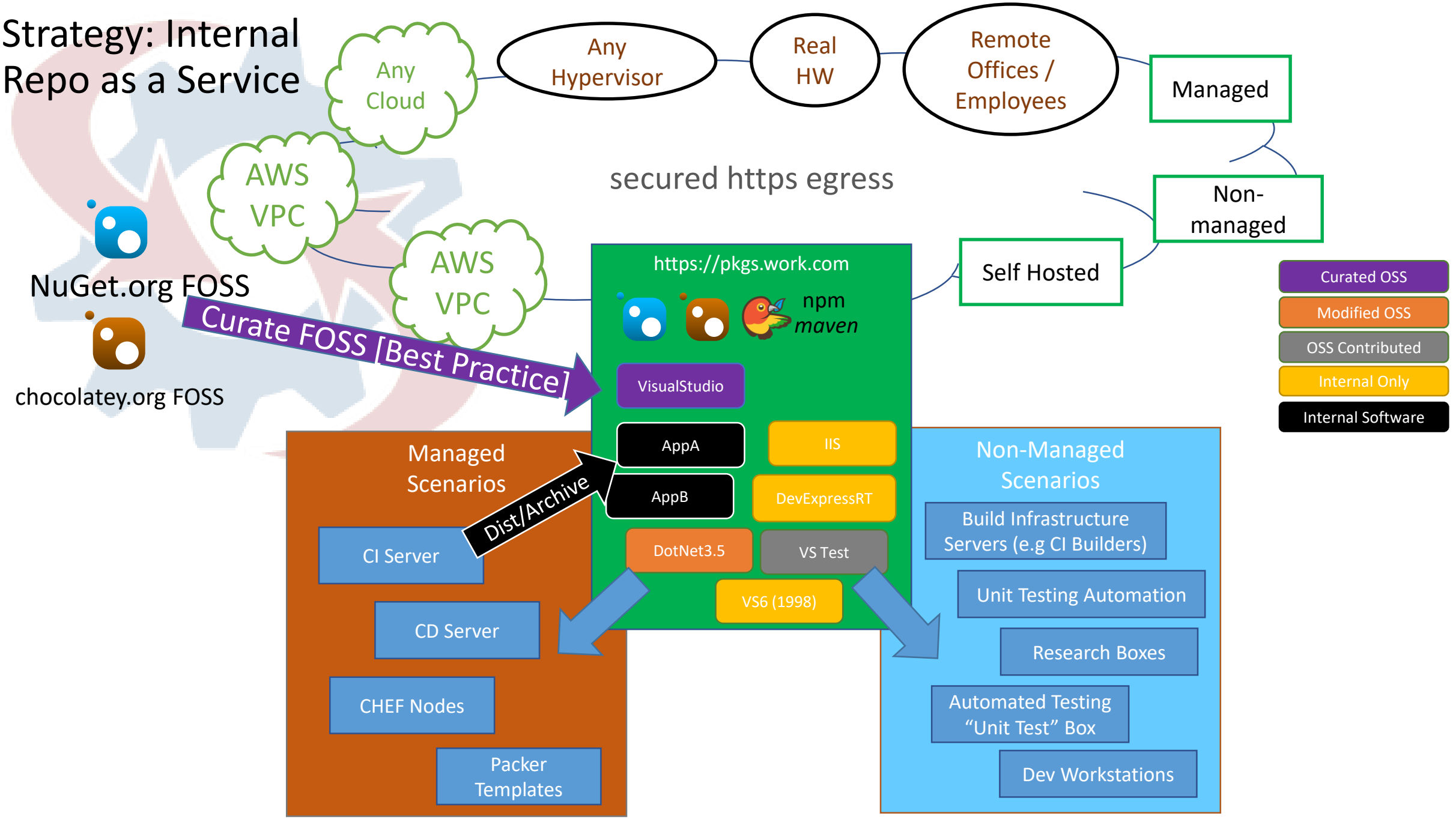
Auto.ps1

Shavings:

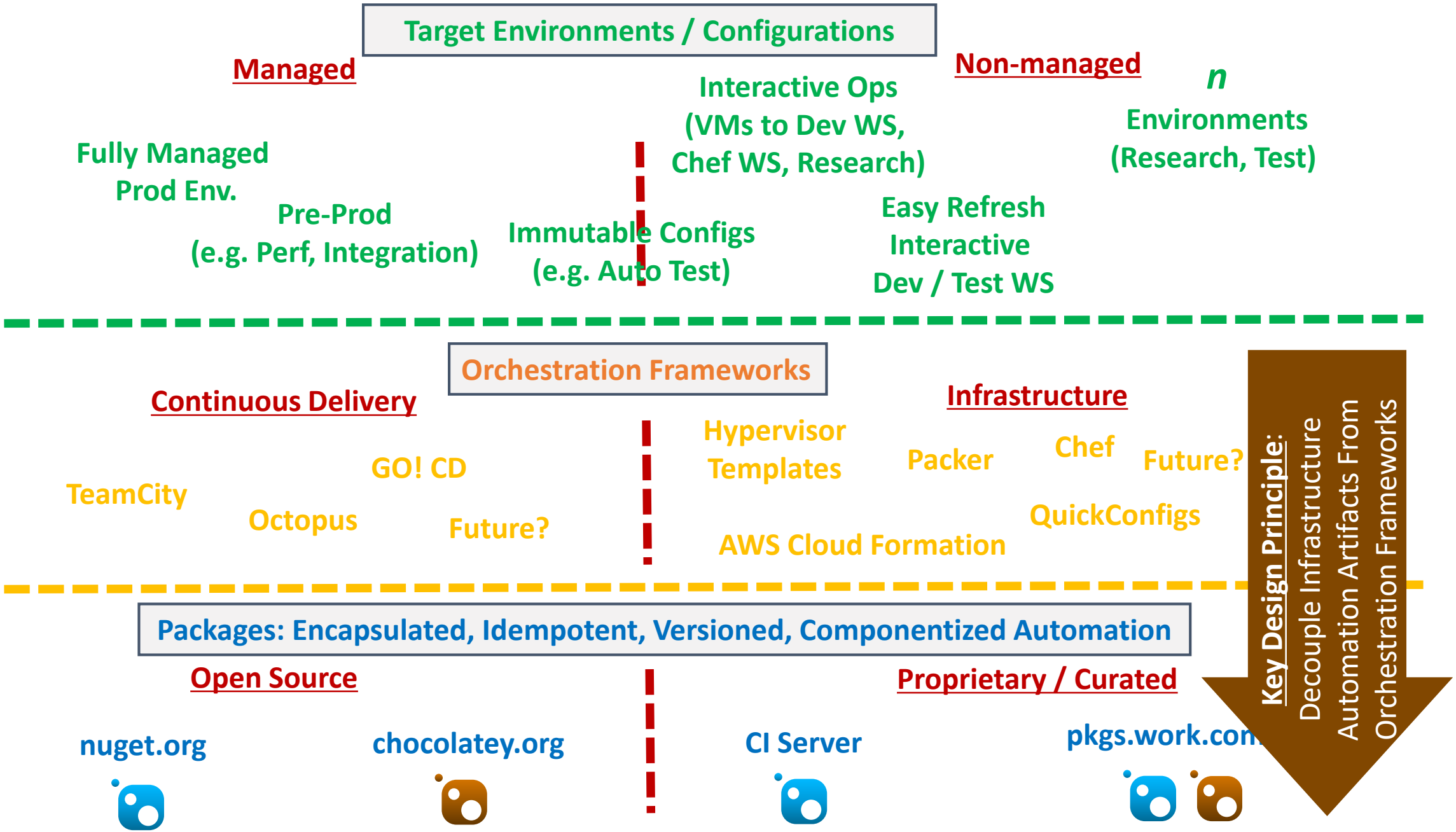
11 x 8 = **88**

11 x 1 = **11**

Strategy: Internal Repo as a Service



Strategy: Fast, Flexible, Modular Automation



Package Repository Options

Artifactory – Developed on Linux, Extended for NuGet. NuGet is not a free option and the product is not cheap. Compared to it's main competitor Nexus Repository its free version is stingy on features. Hands down supports the most repository technologies.

ProGet – Developed on Windows and leverages Windows server technologies (e.g. IIS), Free version could be sufficient. Familiar gallery and admin GUI. LDAP integration and granular security are not free. Support for free version is a message board.

Nexus Repository OSS (Funded) – Developed on Linux. Runs on both (java). Big industry player. Progressively stronger Windows support - NuGet is a first class citizen in 3.0 release. Free version has generous feature set. LDAP integration and granular security *ARE* free. Free version is likely sufficient. Interactions with Nexus support are fast and knowledgeable.

THANK YOU!

Please use the event app or Sched.com to submit a session rating!

CC BY NC SA

PowerShell + DevOps Global Summit