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Managing your Azure workloads with Chef and PSDSC

CODE-THE IMPOSSIBLE

Fredrik Nilsson
Niklas Åkerlund

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rts REAL TIME SERVICES

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1908

2015

Agenda

- DevOps – eller vad händer med min mur?
- PowerShell och DSC – No more Klick-next-Admins
- Chef - Hela Sveriges bakar
- Chef & DSC – kan hjulet gå fortare?
- Sammanfattning

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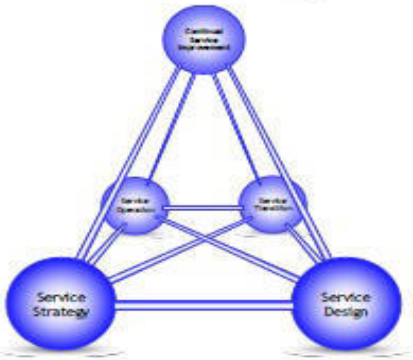
DevOps

ITIL™ Edition 2011 Processes & Functions

information technology infrastructure library



The ITIL Service Lifecycle is an integrated closed-loop system

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Service Strategy

- Strategy Management for IT Services
- Service Portfolio Management
- Financial Management for IT Services
- Demand Management
- Business Relationship Management

Service Design

- Design Coordination
- Service Catalogue Management
- Service Level Management
- Availability Management
- Capacity Management
- IT Service Continuity Management
- Information Security Management
- Supplier Management

Service Transition

- Transition Planning & Support
- Change Management
- Service Asset & Configuration Management
- Service Validation and Testing
- Change Evaluation
- Knowledge Management
- Release and Deployment Management

Service Operation

- Event Management
- Incident Management
- Request Fulfilment
- Problem Management
- Access Management

Continual Service Improvement

- Continual Service Improvement Approach
- Seven Step Improvement Process
- Service Measurement and Reporting

Functions

- Service Desk
- IT Operations Management
- Technical Management
- Application Management

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PERIODIC TABLE OF DEVOPS TOOLS (V1)

XebiaLabs
Deliver Faster

Os	Open Source
Fr	Free
Fm	Freemium
Pd	Paid
En	Enterprise

Database | SCM | Build
CI | Repo Mgmt | Testing
Deployment | Config / Provisioning | Containerization
Cloud / Iaas / Paas | Release Mgmt | Collaboration
BI / Monitoring | Logging | Security

1 En O 12c																			2 Fm Aws Amazon Web Services
3 Os My MySQL	4 Os Gt Git														5 En Ch Chef	6 En Pu Puppet	7 Os An Ansible	8 En Sl Salt	9 Os Dk Docker	10 Pd Az Azure
11 En Mq MSSQL	12 Os Sv Subversion														13 Fr Ssh SSH	14 En Bl BladeLogic	15 Os Va Vagrant	16 Fr Tf Terraform	17 Os Rk rkt	18 Fm Hk Heroku
19 Os Pq PostgreSQL	20 Fr Mc Mercurial	21 Os Mv Maven	22 Os Gr Gradle	23 En Mr Meister	24 Os Jn Jenkins	25 Pd Bb Bamboo	26 Os Tr Travis CI	27 Fr Ar Archiva	28 Os Fn FitNesse	29 Fr Se Selenium	30 Os Gn Gatling		31 Pd Gd Deployment Manager	32 Os Sf SmartFrog	33 Fr Cb Cobbler	34 Os Bc Bcfg2	35 Os Kb Kubernetes	36 En Rs Rackspace
37 Os Mg MongoDB	38 Fm Gh Github	39 Os Br Buildr	40 Os At ANT	41 Fm Bm BuildMaster	42 Fm Cs Codeship	43 Fm Sn Snap CI	44 Fm Cr CircleCI	45 Os Nx Nexus	46 Fr Cu Cucumber	47 Os Cj Cucumber.js	48 Fr Qu Qunit		49 Fr Cp Capistrano	50 Fr Ju JuJu	51 Os Rd Rundeck	52 Os Cf CFEngine	53 Fr Pk Packer	54 Fm Bx Bluemix
55 En Db DB2	56 Fm Bb Bitbucket	57 Fm Qb QuickBuild	58 En Ub UrbanCode Build	59 Pd Ta Visual Build	60 Fm Tc TeamCity	61 Fm Sh Shippable	62 Os Cc CruiseControl	63 Os Ay Artifactory	64 Fr Ju JUnit	65 Fr Jm JMeter	66 Fr Tn TestNG		67 En Rd RapidDeploy	68 Fm Cy CodeDeploy	69 En Oc Octopus Deploy	70 No CA Nolio	71 En Eb ElasticBox	72 En Ad Apprenda
73 Fr Cs Cassandra	74 En Hx Helix	75 Os Msb MSBuild	76 Os Rk Rake	77 Os Lb LuntBuild	78 Os Cu Continuum	79 Fm Ca Continua CI	80 Os Gu Gump	81 Os Ng NuGet	82 Os Ap Appium	83 En Xltv XL TestView	84 En Tc TestComplete		85 Os Go Go	86 En Ef ElectricFlow	87 En Xld XL Deploy	88 En Ud UrbanCode Deploy	89 Os Mo Mesos	90 Os Cf Cloud
91 En Xlr XL Release	92 En Ur UrbanCode Release	93 En Ls CA Service Virtualization	94 En Bm BMC Release Process	95 En Hp HP Codar	96 Pd Ex Excel	97 En Pl Plutora Release	98 En Sr Serena Release		99 Fm Tr Trello	100 Pd Jr Jira	101 Fm Rf HipChat	102 Fm Sl Slack	103 Fm Fd Flowdock	104 Pd Pv Pivotal Tracker	105 En Sn ServiceNow				
106 En Sp Splunk	107 Os Ki Kibana	108 Fm Nr New Relic	109 Os Ni Nagios	110 Os Gg Ganglia	111 Os Ct Cacti	112 Os Gr Graphite	113 Os Ic Icinga		114 Fm Sl Sumo Logic	115 Os Ls Logstash	116 Fm Lg Loggly	117 Os Gr Graylog	118 Os Sn Snort	119 Os Tr Tripwire	120 En Cy CyberArk				

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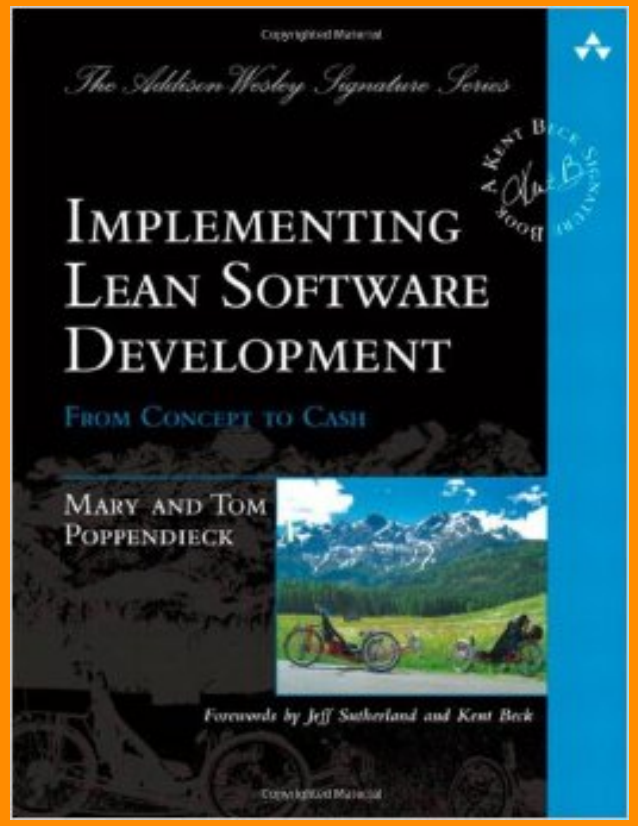
Chinese whispers



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ISBN-10: 0321437381

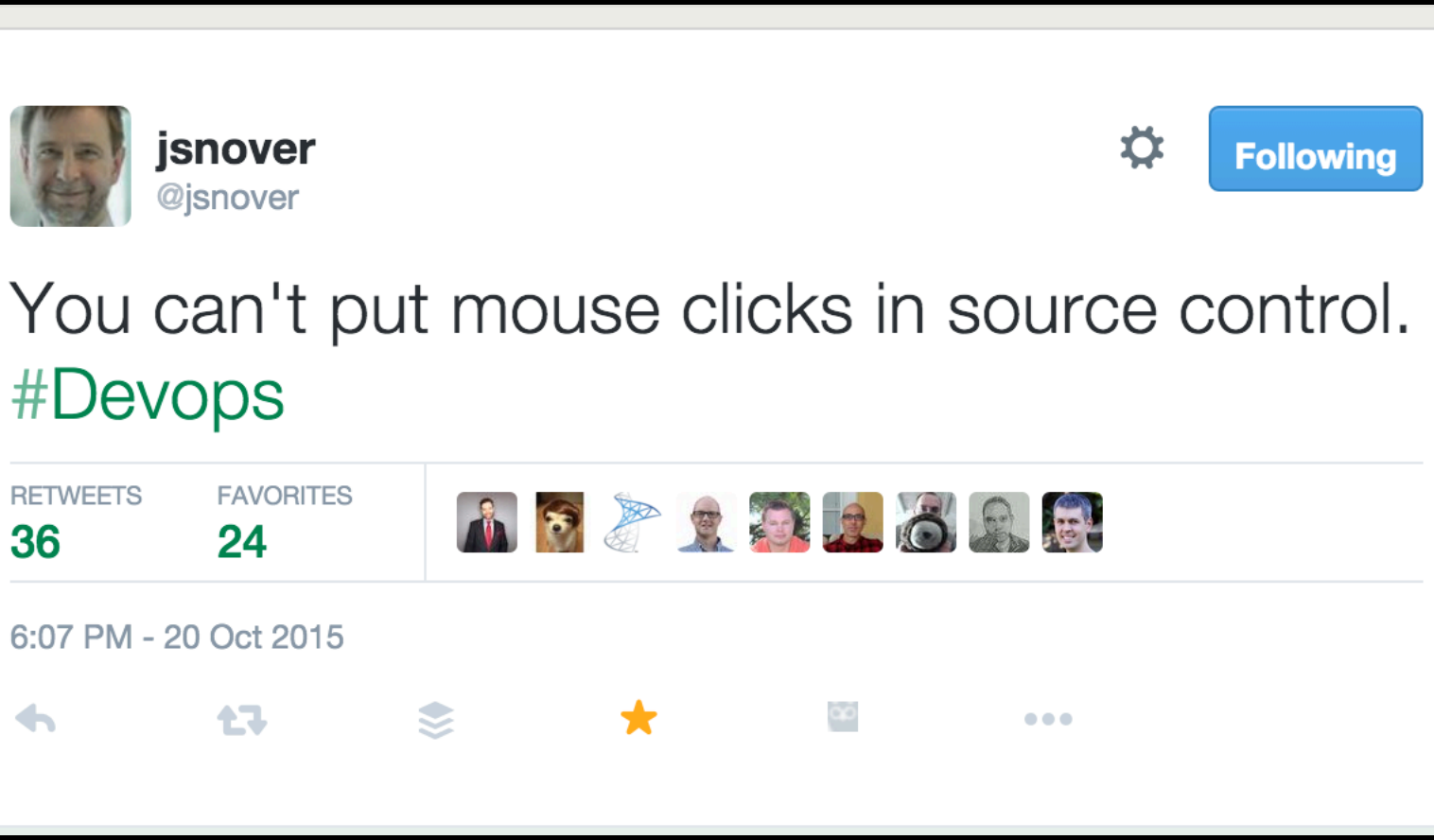
Implementing Lean Software Development: From Concept to Cash

Mary och Tom Poppendieck

- **25% of the knowledge left after 2 handoffs.**
- **12% of the knowledge left after 3 handoffs.**
- **6% of the knowledge left after 4 handoffs.**
- **3% of the knowledge left after 5 handoffs.**

The Solution

Infrastructure as code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@jsnover
Following
You can't put mouse clicks in source control.
#Devops
RETWEETS
36
FAVORITES
24
6:07 PM - 20 Oct 2015

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PowerShell & DSC

Why PowerShell?

Demo

PowerShell History

- Monad manifesto - 2002
- PowerShell v1 – 2006
- PowerShell v2 – 2009 with remoting
- PowerShell v3 – 2012
- PowerShell v4 – 2013 with Desired State Configuration
- PowerShell v5 - 2015

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Chef

Why Chef?

Chef Overview

Chef Server

Central store for Cookbooks and Policy settings

Chef management console

Node(s)

A chef-client is installed on every node that is under management by Chef

Pulls data from the Chef Server

Workstation

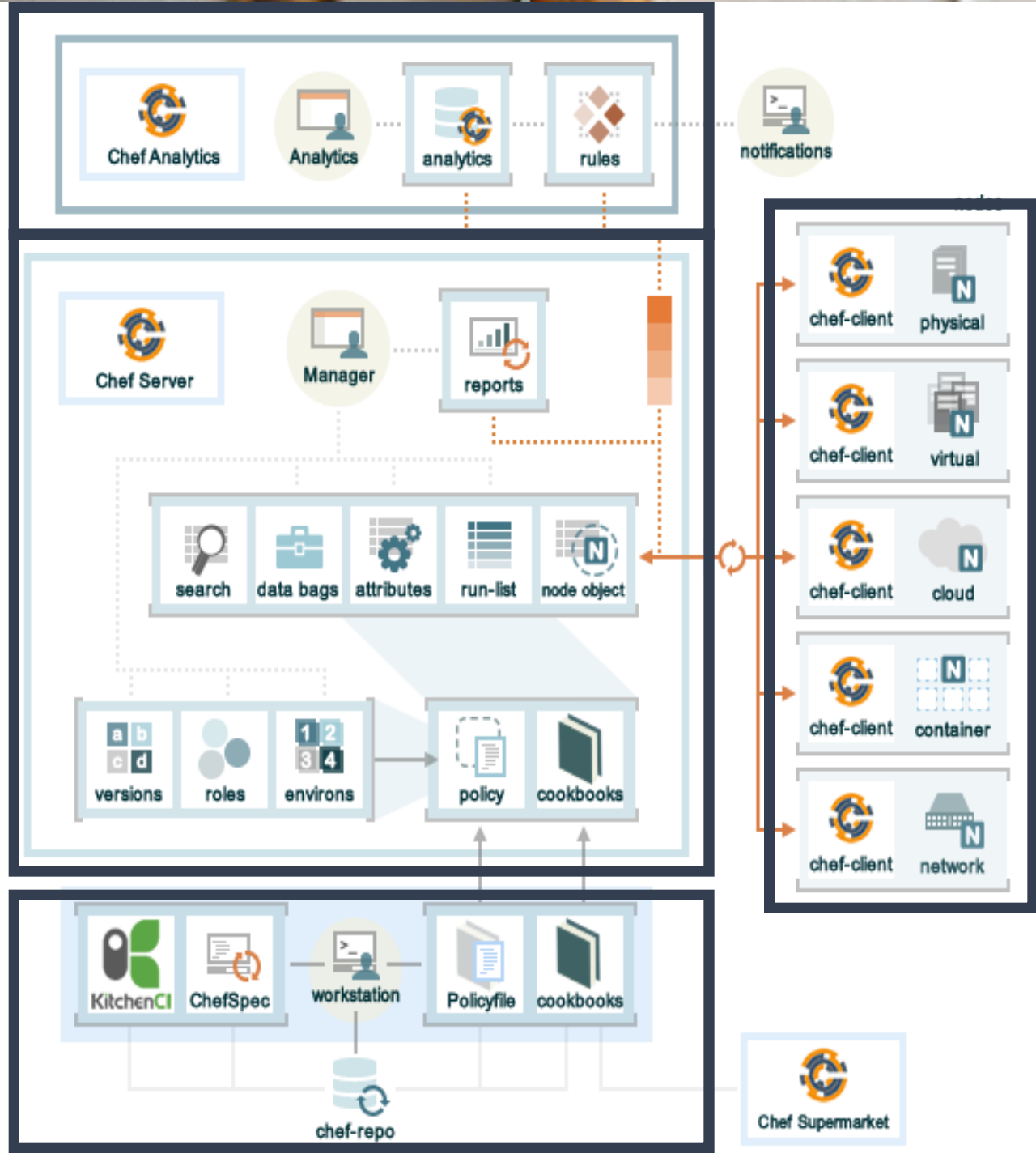
Developing cookbooks and recipes

Knife CMD line tool

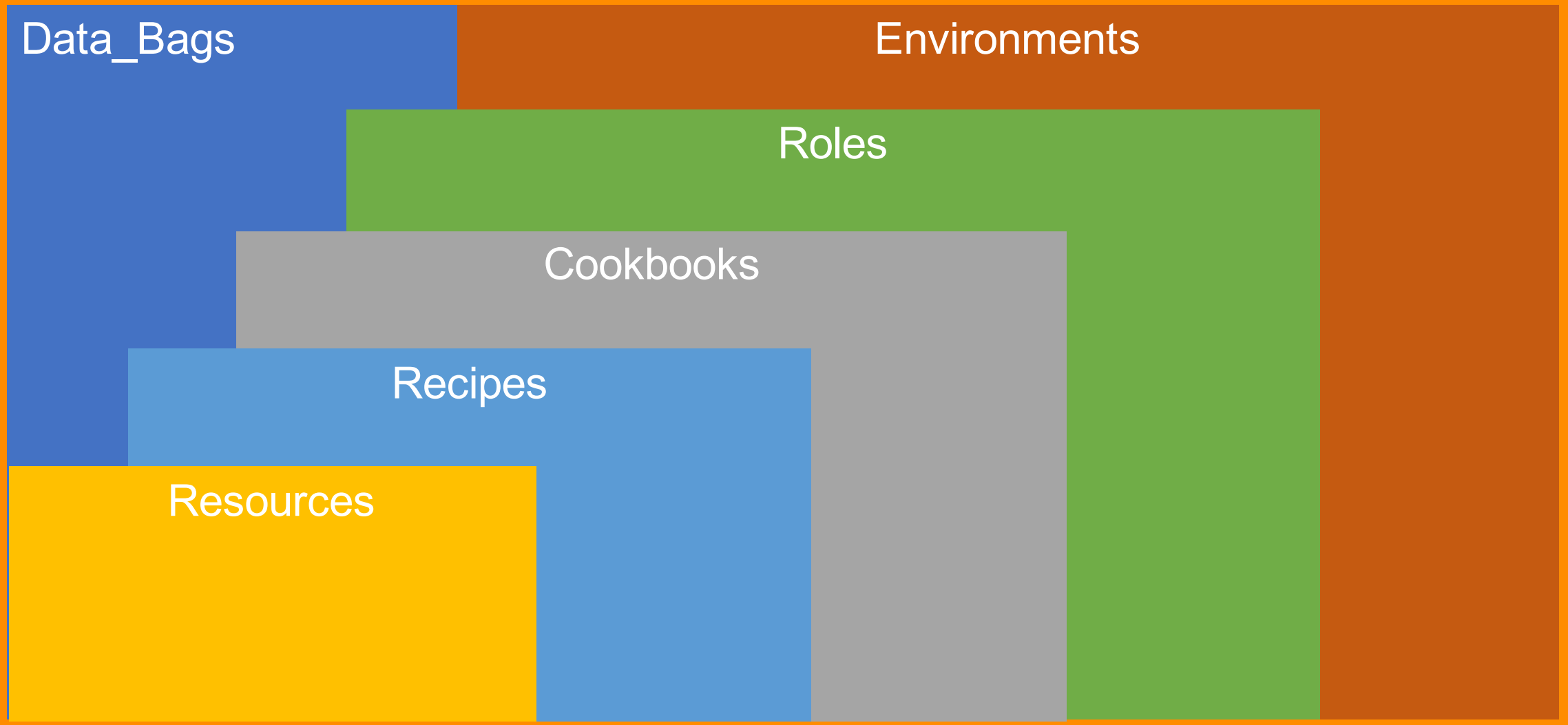
Analytics

Realtime visability

Verify Compliance



Chef’s Service Building Blocks

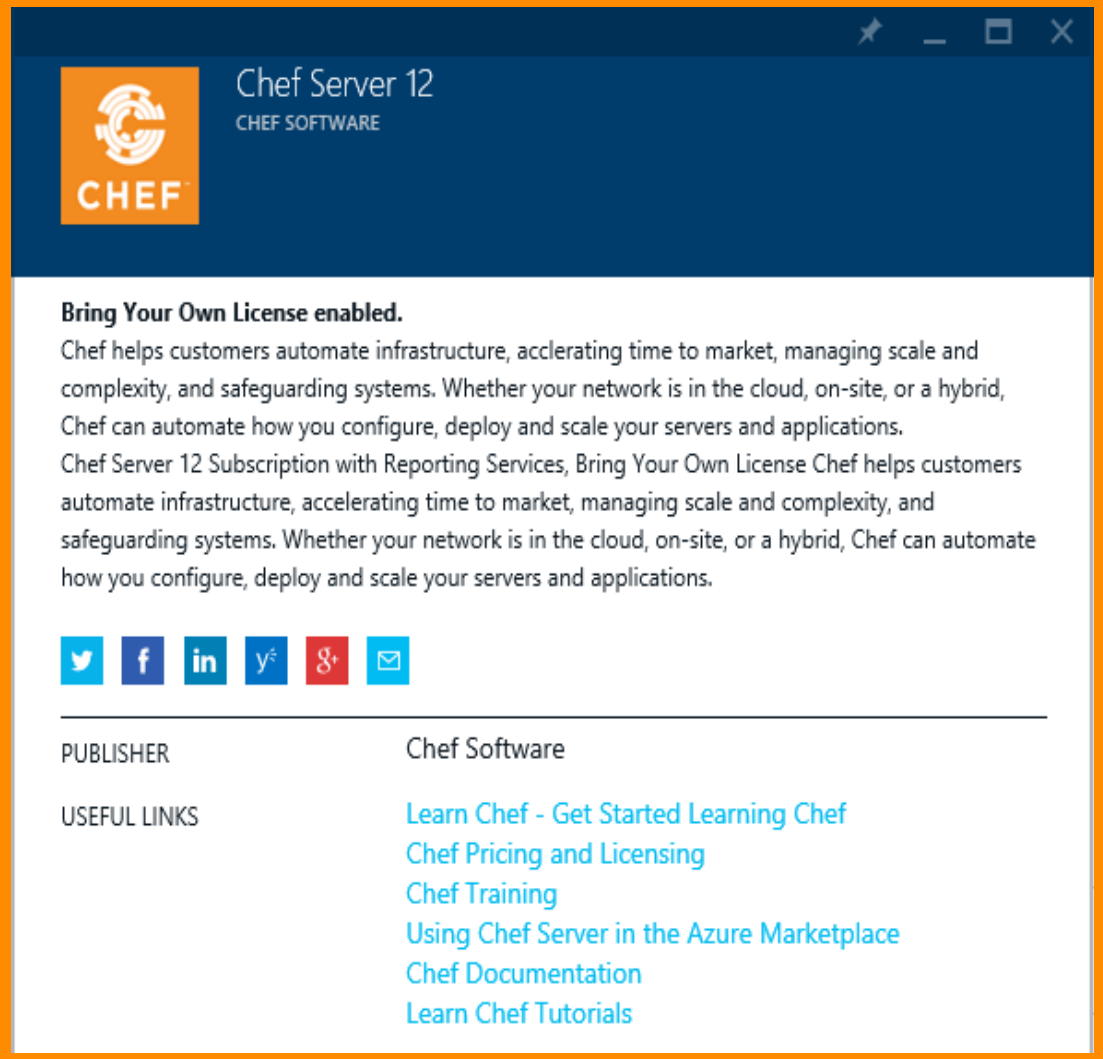


Demo

Launch a Chef Server in Azure

Preconfigured Chef Server in Azure Marketplace

One command to a fully working Chef Server



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Chef+PSDSC

Chef and PowerShell DSC

- Chef provides the extended framework above DSC
  - Recipes, Attributes, Cookbooks, Data Bags, Push Jobs, Environments, Provisioning
- PowerShell DSC provides the path into the Operating System

Why Chef together with DSC?

- Responsiveness
- Notifications
- Environmental data
- Ecosystem

- Reporting
- Analytics
- Management

Demo

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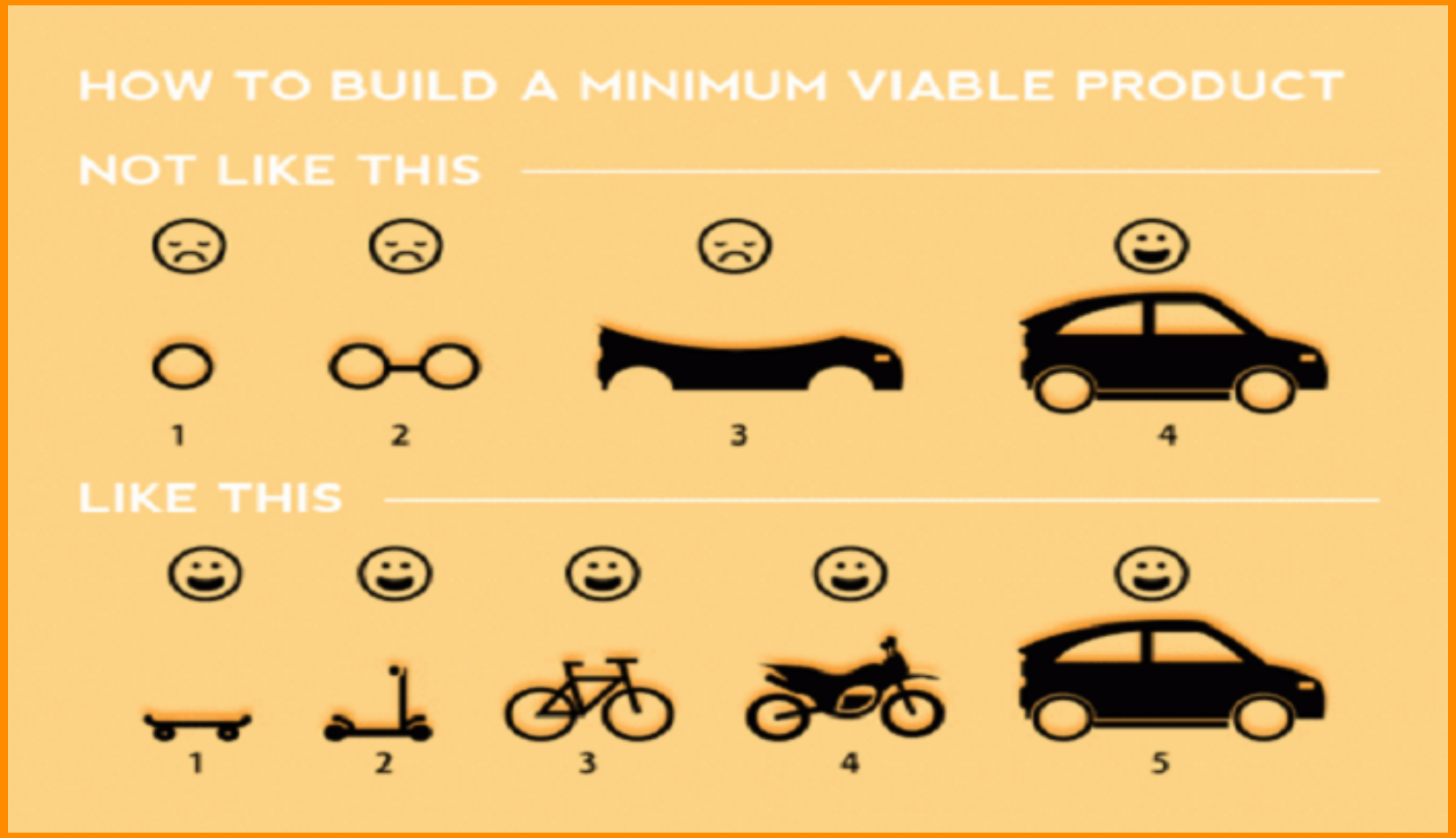
Summary

How do I move forward?



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Additional Resources

- Learn Chef!
  http://learn.chef.io
- Knife Azure
  https://docs.chef.io/plugin_knife_azure.html
- Chef Provisioning
  https://github.com/chef/chef-provisioning-azure
- Azure CLI
  https://www.npmjs.com/package/azure-cli (azure vm extension set-chef)

The Future of operations: Learn DevOps and Infrastructure as Code

Sal: M1 22 oktober kl 16:00 – 17:00

Rasmus Hald

Principal Technical Evangelist ,
Microsoft Danmark

Chef Community Summit – London

London, etc. Venues Monument – November 3rd & 4th

Why your participation matters

- Influence the path of the Chef roadmap
- Contribute to the formation of best practices and the avenues to best share them
- Share your experiences transforming your business
- Demonstrate your DevOps Kung Fu

Network with awesome engineers in the Community

- Engage with a community of people actively using Chef to automate their workflow
- Discuss “what keeps you up at night” with a passionate engaged audience
- Meet with CHEF engineers IRL

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