EXPONENTIAL INCREASE-COMPUTING RESOURCES

INCREASED SIZE ADDS COMPLEXITY

WEB SERVERS

ADD 1 SERVER

20+ Changes
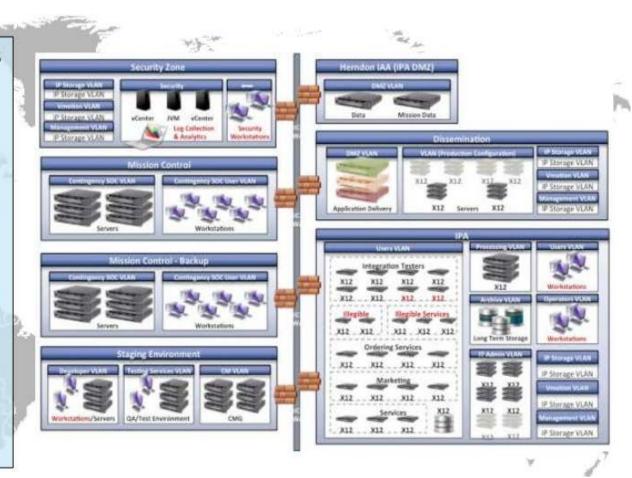12+ New
dependences

APPLICATION SERVERS

DATABASE

TYPICAL GROUND SYSTEM

- 100's - 1000's of servers
- 4 Types of databases clusters
- 2 HPC clusters
- 17 VLANS
- 7 internal firewalls
- Hardened Windows and Linux Images
- 9 Major COTS Packages
- 15 Custom applications in five languages
- 3 NAS devices – Petabyte level storage
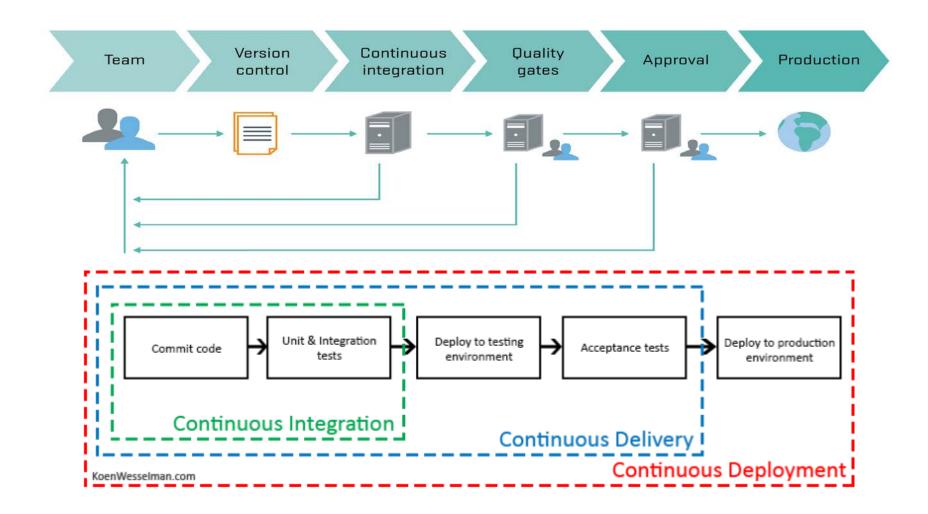- Multiple locations including public and private Clouds

WHAT WILL YOU LEARN TODAY?

✓ What is Chef ?

✓ Chef Framework and how Chef works ?

✓ Who is using Chef ?

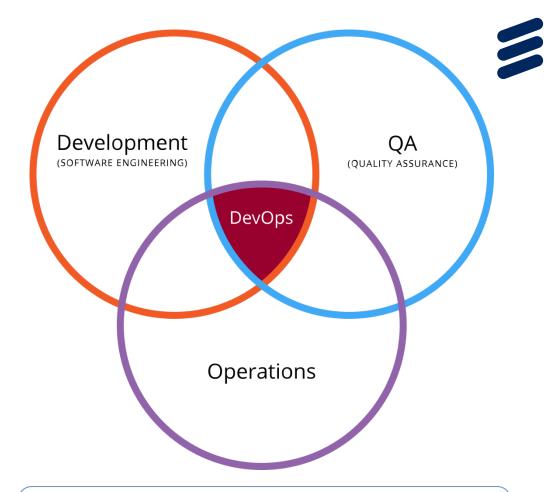✓ Hands On – Getting started with Chef

CONTINUOUS DELIVERY

KoenWesselman.com

DEVOPS

Development
(SOFTWARE ENGINEERING)

QA
(QUALITY ASSURANCE)

DevOps

Operations

Automating the process of software delivery and infrastructure changes

NAVDEEP & VIBHA

CHEF : TRANSFORMING INFRASTRUCTURE INTO CODE

Chef is an automation platform that configures and manages your infrastructure

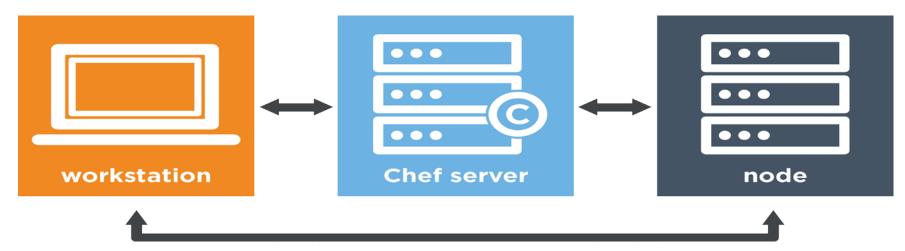Chef transforms infrastructure into code

CHEF FRAMEWORK

Chef Framework is a combination of a Chef Server, nodes and workstation

Chef Server manages the nodes that make up the infrastructure

Chef-client is a program that runs on each node

Knife is a command line tool that runs on workstation

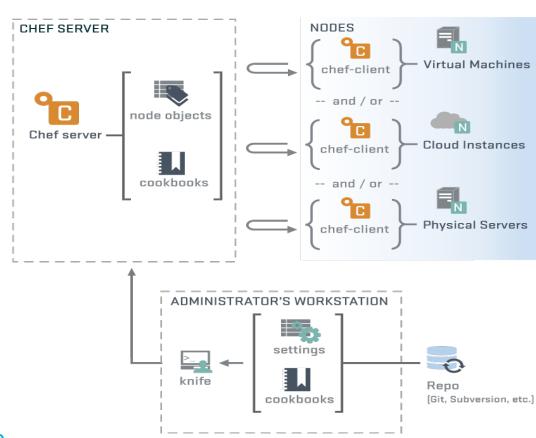Chef Server contains configuration information called Cookbook

workstation   Chef server   node

HOW CHEF WORKS?

Chef-client periodically pulls Chef server to see if there are any changes in cookbooks or settings

If cookbooks or settings are changed then Chef server sends the latest configuration information to Chef-client, Chef-client applies those configuration changes to nodes

Updated Cookbooks and settings are pushed to Chef server from workstation by using command line tool Knife
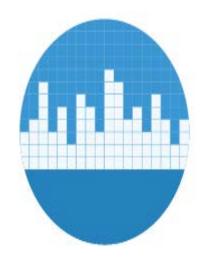
CHEF FEATURES

Chef is DevOps friendly, cloud friendly, easy to learn and have strong community support

APPLICATIONS

Continuously deliver applications faster and safer with a proven pipeline

INFRASTRUCTURE

Save time and reduce errors by automating provisioning and configuration at scale

ONE PLATFORM: CHEF

Manage changes to apps, infrastructure, and compliance in multiple environments

WHO IS USING CHEF?

Prezi : Presentation Software

"Chef gives us agility. If we want to start developing a new system tomorrow, by Noon we can put every infrastructure piece in place and be ready to go."

— Gabor Veszi, Infrastructure Lead, Prezi

DreamHost : Web Hosting Provider

"Chef is an ideal automation framework for Ceph and OpenStack. Not only does it give us complete control, but it's super easy to work with."

— Carl Perry, Cloud Architect, DreamHost