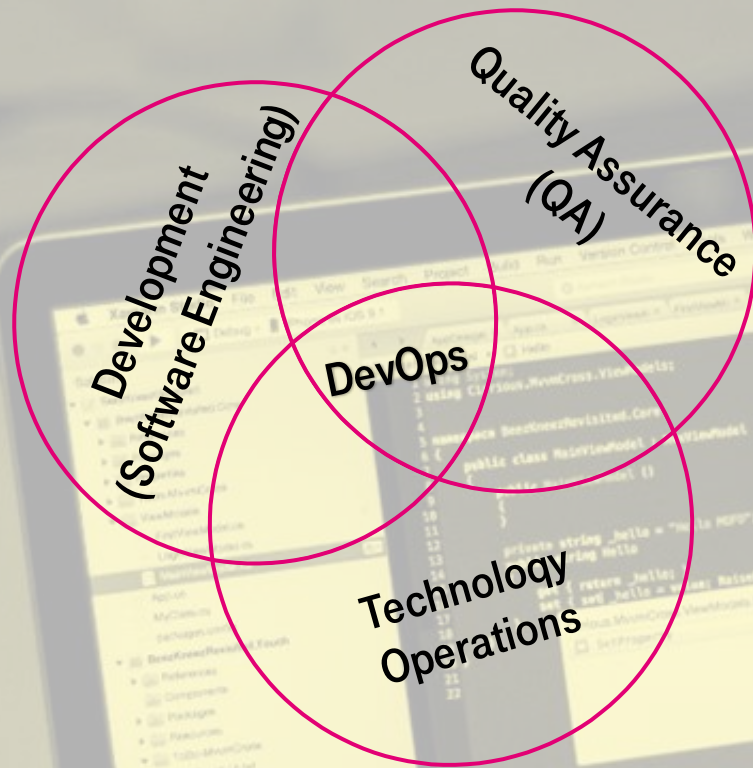




WHAT DOES DEVOPS MEANS FOR US?

Organizational, technological and process management
challenges of IT

Jagusztin László



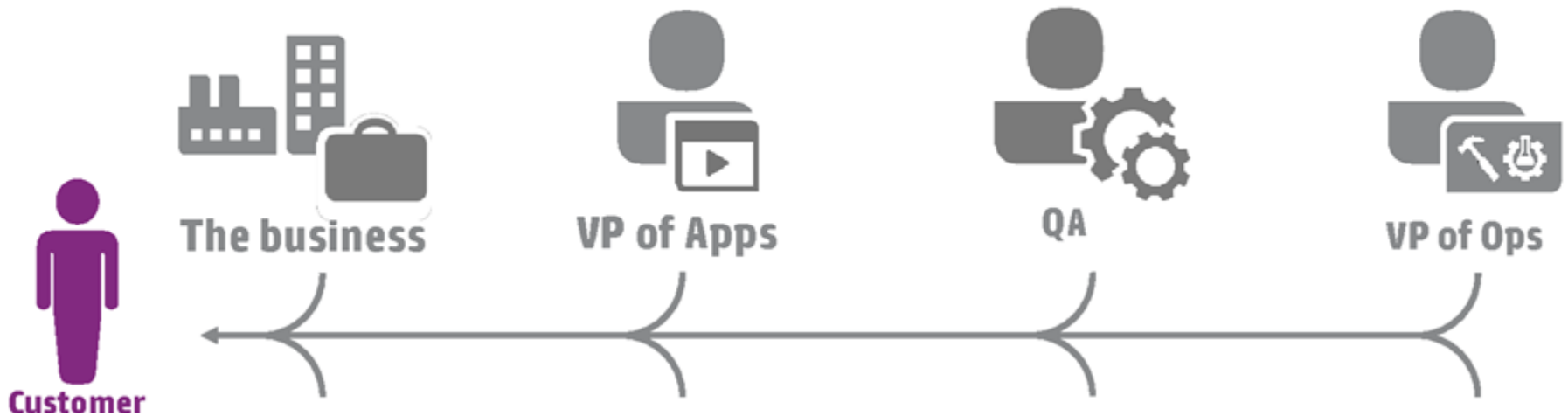
DEVOPS DEFINITIONS

„DevOps is a methodology that combines what used to be the separate and sequential processes of development and operations into a continuous process of understanding a market need, refining an application or service to meet that need, and testing and deploying the solution.” **TECHINSIGHTS(2013)**

„DevOps (a clipped compound of ‘development’ and ‘operations’) is a software development method that stresses communication, collaboration, integration, automation, and measurement of cooperation between software developers and other information-technology (IT) professionals.” **WIKIPEDIA EN (2014)**

„DevOps, in a way, is all the things that go into making Automated/Continuous Deployment possible [...] ensuring quality at all stages.” **TECHCRUNCH(2015)**

THE ENTERPRISE SPEED CHALLENGE



FACTS: WHAT ABOUT CHANGE QUALITY?

BUSINESS

REQUIRES CHANGE

DEVELOPMENT

CHANGE IS A FRIEND

OPERATIONS

CHANGE IS AN ENEMY

CHANGE IS THE ROOT CAUSE OF MOST OUTAGES

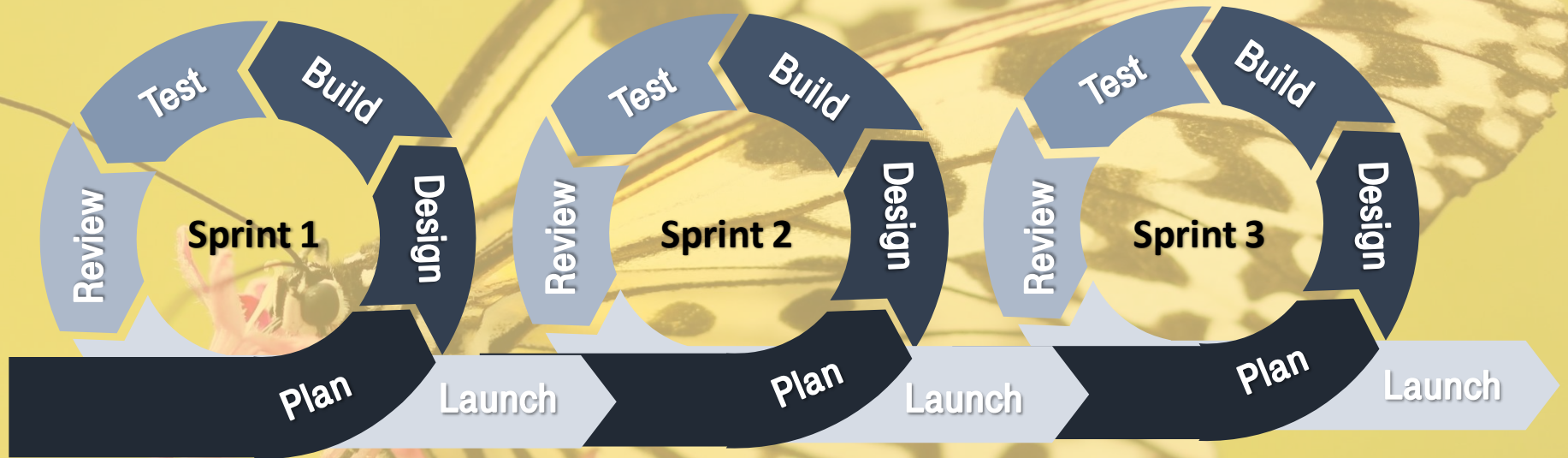
TECHNOLOGY

PROCESS

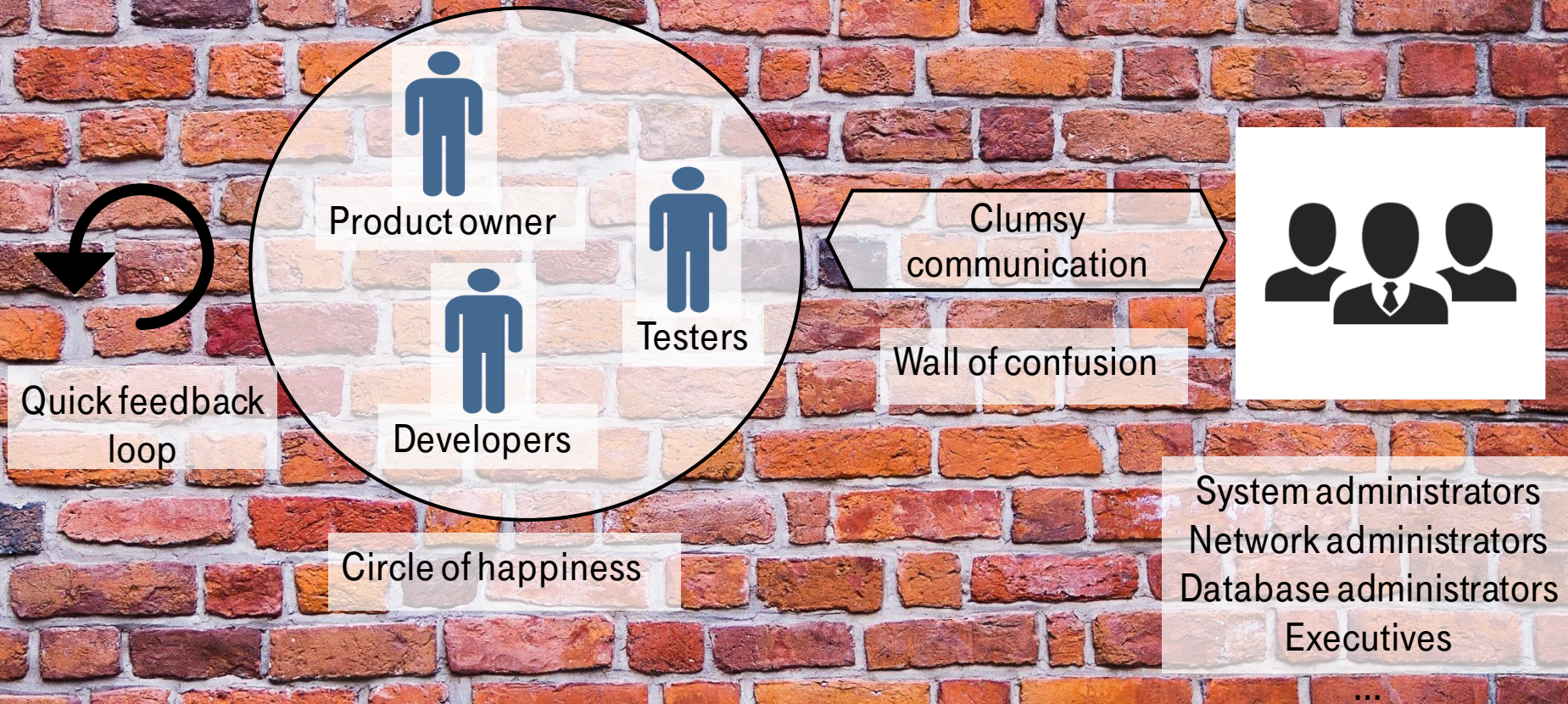
PEOPLE



THE NEW PROMISE: AGILE DELIVERY METHOD



AGILE CIRCLE OF HAPPINESS VS WALL OF CONFUSION



EXTENDED RELEASE PIPELINE

Continuous Integration

Commit →
Unit, Integration,
Functional Testing

Continuous Delivery

Deploy to
Testing
Environment

Acceptance
Testing

Continuous Deployment

Deploy/"Promote"
to Production

CODE





TECHNOLOGY

PROCESS

PEOPLE

EXPECTATION ON DEVOPS TEAMS

**FULFILL MARKET
DEMANDS** FOR ...

**SPEED
EFFICIENCY
QUALITY
UPTIME**

COLLABORATE SEAMLESSLY

ALLOW **RAPID
DEVELOPMENT** AND
**AUTOMATIC TEST
AND DEPLOYMENT**
OF ...

ENABLE A
**JOINT DEVELOPMENT
AND OPERATIONS
TEAM** TO...

CREATE **END-TO-END
RESPONSIBILITY** FOR
„THEIR” SERVICE

**LOWERING RISK OF
CHANGE** THROUGH ...

DECIDE JOINTLY ON THE BALANCE OF
TARGETS (CHANGES VS. STABILITY)

NEW TEAMS, SPLIT BY SERVICE



Team split by task



Team split by service

TECHNOLOGY



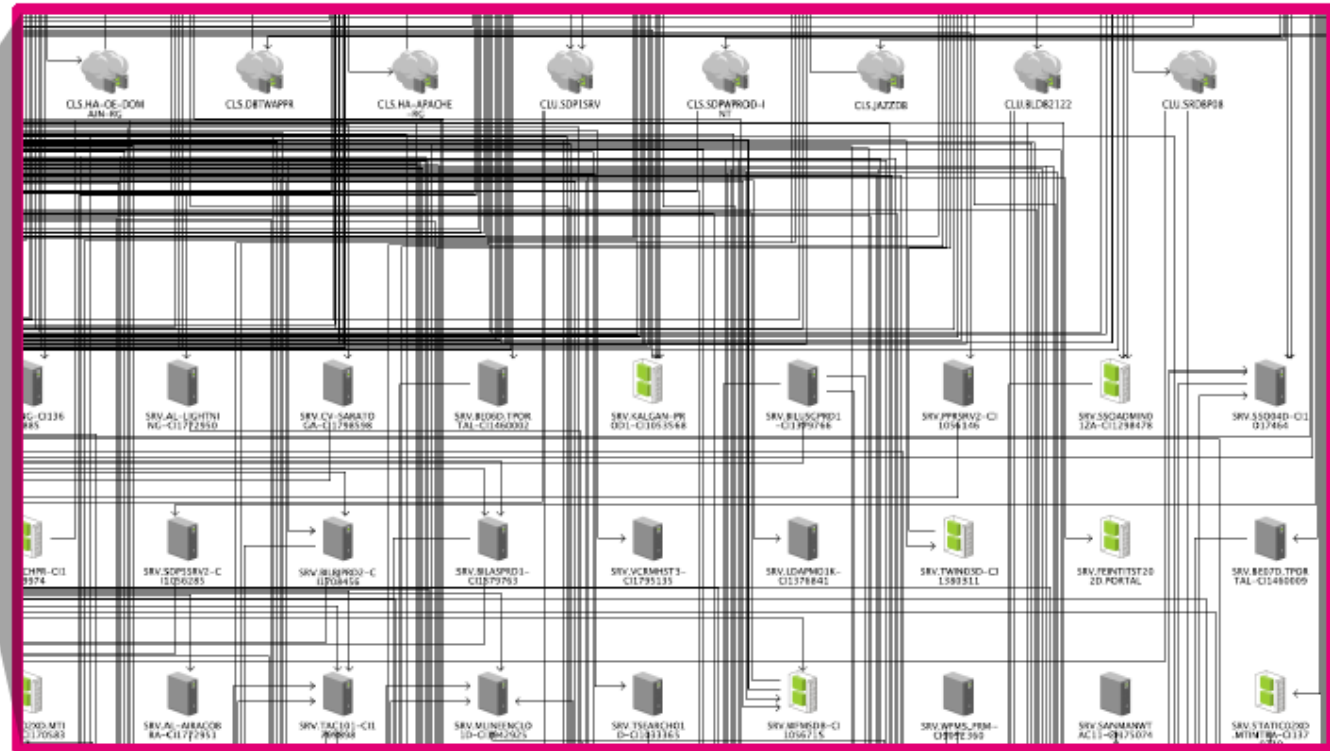
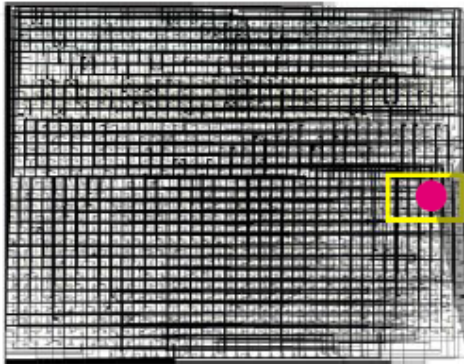
PROCESS

PEOPLE



IT SERVICE:

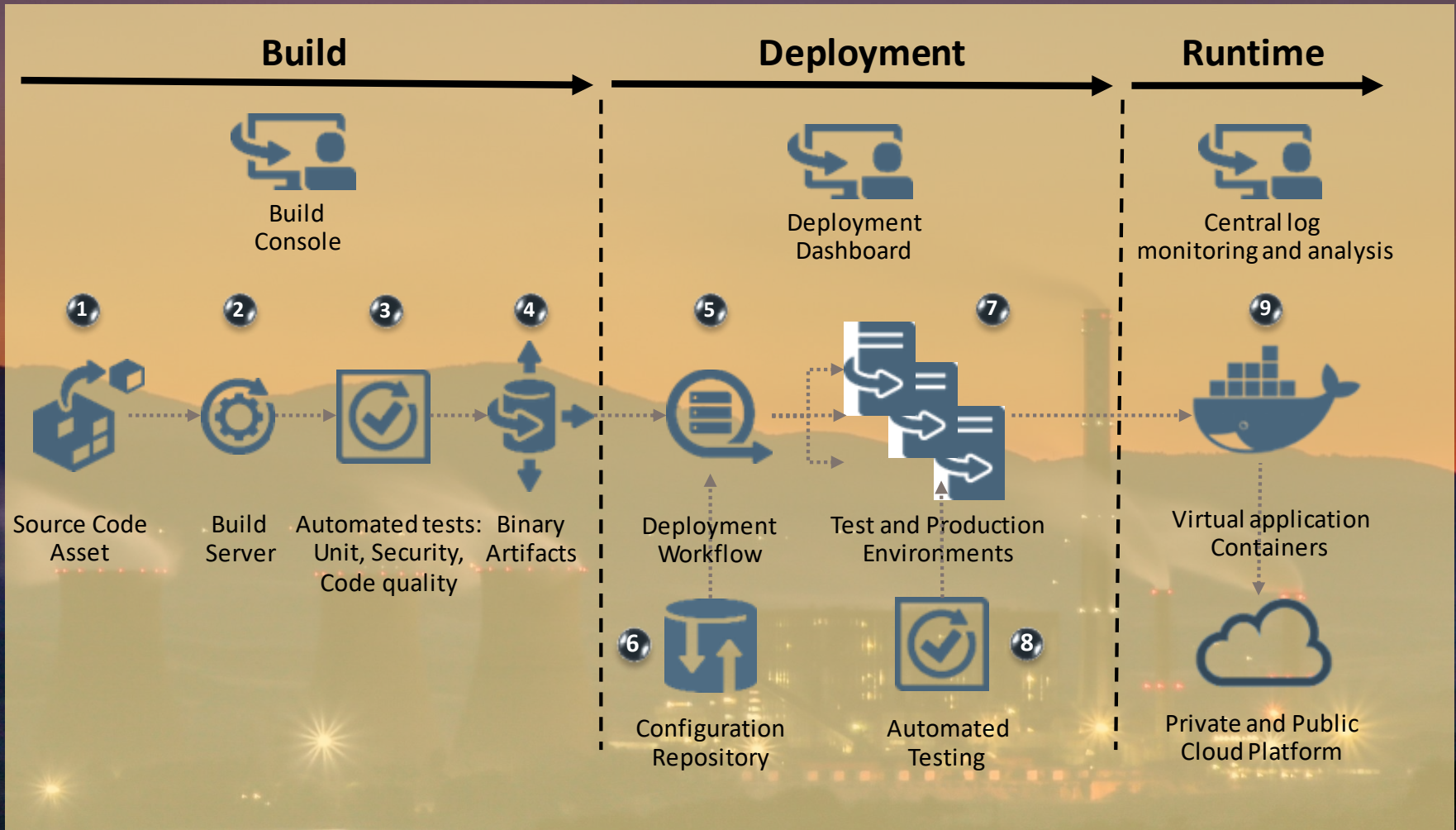
1600 VLANs, 4000 SERVERS, 800 NETWORK DEVICES



More than 1300+ CI-s impacted

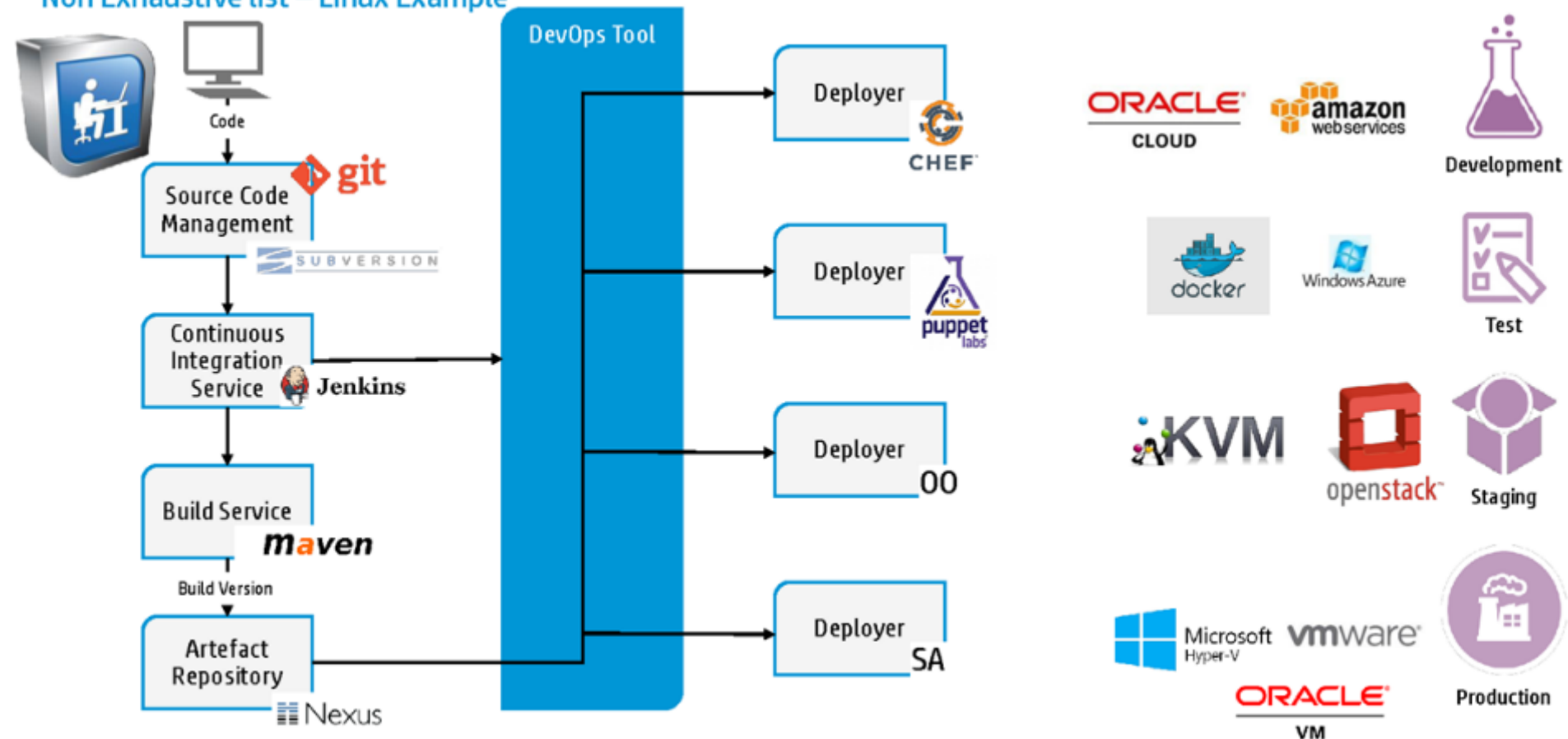
Service	1
Applications	114
DB Instances	73
Firewalls	190
HW management modules	182
Middlewares	145
Servers	595
Storages	23

AUTOMATION: INDUSTRIALIZE THE DELIVERY PROCESS



DEVOPS TOOLSET – OPEN SOURCE AND COTS

Non Exhaustive list – Linux Example





DEVOPS EXPERIENCES

THE HUMAN CHALLENGE



Culture eats
strategy for
breakfast!

BRING DEVELOPMENT AND OPERATIONS TOGETHER

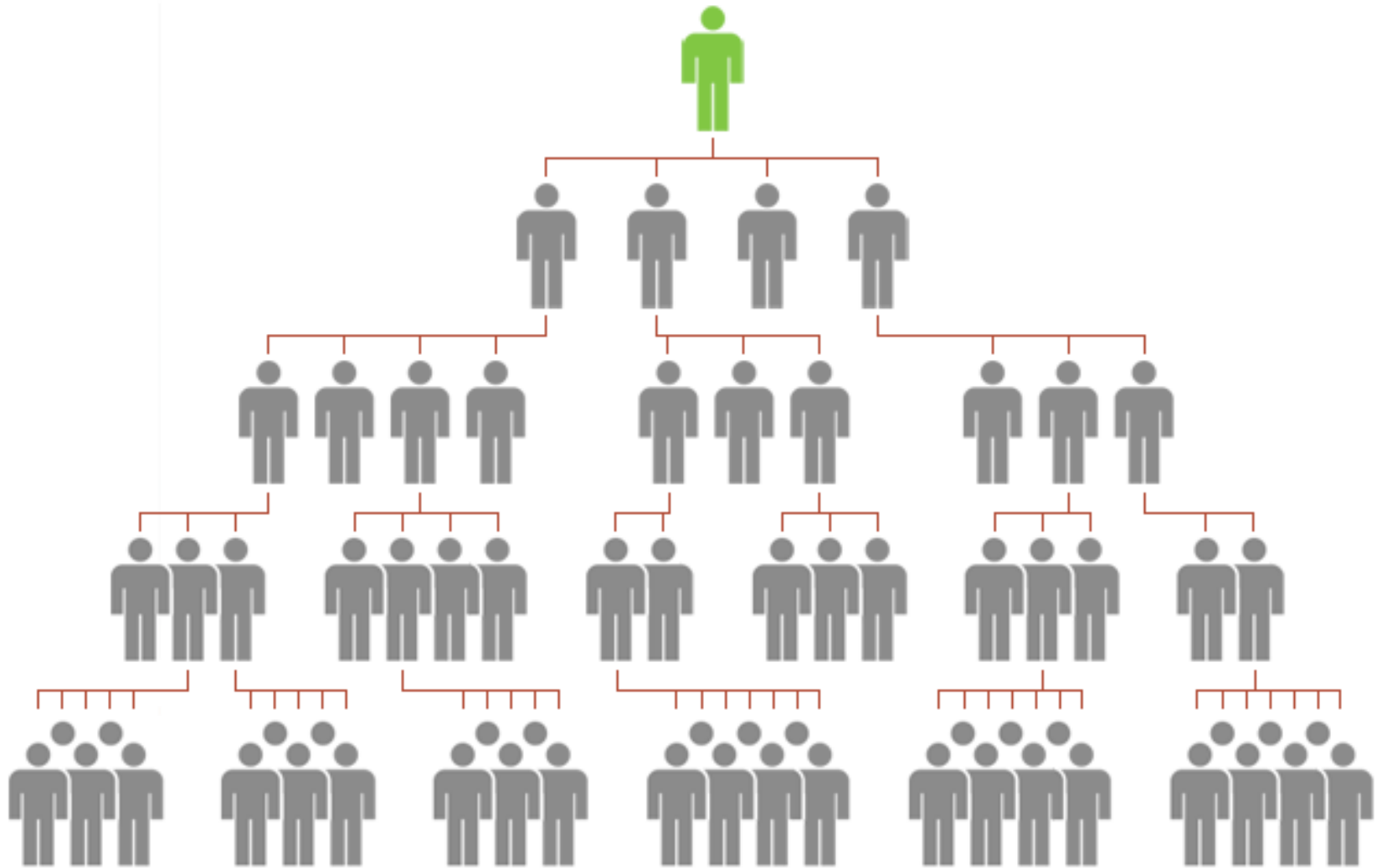


How Dev Views Ops>>

<<How Ops Views Dev



RIGHT SIZE OF THE TEAMS





LOSS OF PROCESS CONTROL POINTS

SECURITY CHALLENGE



DEVOPS SILOS - LOSS OF END TO END VIEW





OVERLOADED STAFF

CONTINUOUS FIRE-FIGHTING





THANK YOU



JAGUSZTIN LÁSZLÓ

**HEAD OF INTEGRATION,
PROCESS & TECHNOLOGY DEPARTMENT**