

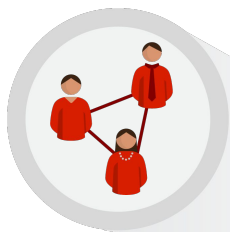
Open Innovation Labs

Your Journey to Modern Application Development

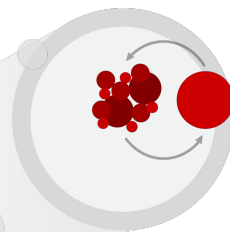
Arnaud Simon - Territory Services Manager - France

October 2017

OPEN SOURCE IS MORE THAN CODE. IT'S CULTURE.

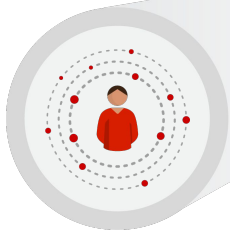


Engaged communities
more rapidly adapt change



Transparency forces
honesty and authenticity

OPEN SOURCE CULTURE



Open standards
preserve business agility



Shared problems
are solved faster

OPEN INNOVATION LABS

OPEN SOURCING OUR DNA TO ACCELERATE APPLICATION DEVELOPMENT

MISSION

To **accelerate the delivery** of our customer's innovative ideas, and **create infectious enthusiasm** for building applications **the Red Hat Way**, by leveraging community-powered innovation to **deliver an outstanding labs experience**.

VISION

To empower our customers to **deliver the most innovative software success stories of the 21st century**.





**WHAT DOES AN AWARD-WINNING
RESTAURANT AND THE OPEN INNOVATION
LABS HAVE IN COMMON?**

BUILD SOFTWARE THE RED HAT WAY IN OPEN INNOVATION LABS



EXPERIMENT

Rapidly build prototypes,
do DevOps, and be agile.



IMMERSE YOUR TEAM

Work side-by-side with experts
in a residency-style engagement.



CATALYZE INNOVATION

Bring modern application
development back to your team.

LABS USE CASES

An aerial photograph of a snowy forest. A dark-colored car is driving on a snow-covered road that curves through the trees. The trees are heavily laden with snow, and the ground is a uniform white. A semi-transparent teal box with a white border is overlaid on the center of the image, containing the text.

THE ROAD TRIP

EXPERIENCE STATE-OF-THE-ART
APPLICATION DEVELOPMENT AND DEVOPS

DISRUPTION

RAPIDLY CO-CREATE AN INNOVATIVE
OR DISRUPTIVE PRODUCT

A large cargo ship is shown from a low angle, with a tugboat assisting it. The ship is heavily loaded with stacked shipping containers. A teal graphic with a white border is overlaid on the ship, containing the text 'TRANSFORMATION' in large white letters, and 'CREATE THE CATALYST TO CHANGE THE CARGO SHIP'S COURSE' in smaller white letters below it.

TRANSFORMATION

CREATE THE CATALYST TO CHANGE
THE CARGO SHIP'S COURSE

FROM OPEN INNOVATION LABS TO CONTAINER ADOPTION PROGRAM

OUR PROCESS



PRE-WORK

Discovery session



RESIDENCY

Agile, Lean, DevOps

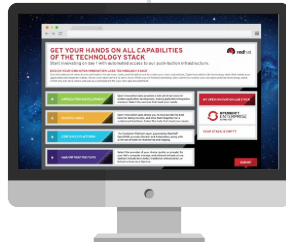
CONTINUOUS LEARNING



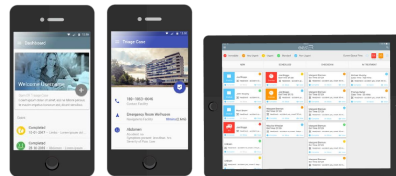
RETROSPECTIVE

Backlog and roadmap

PUSH-BUTTON
INFRASTRUCTURE



DEMO DAY



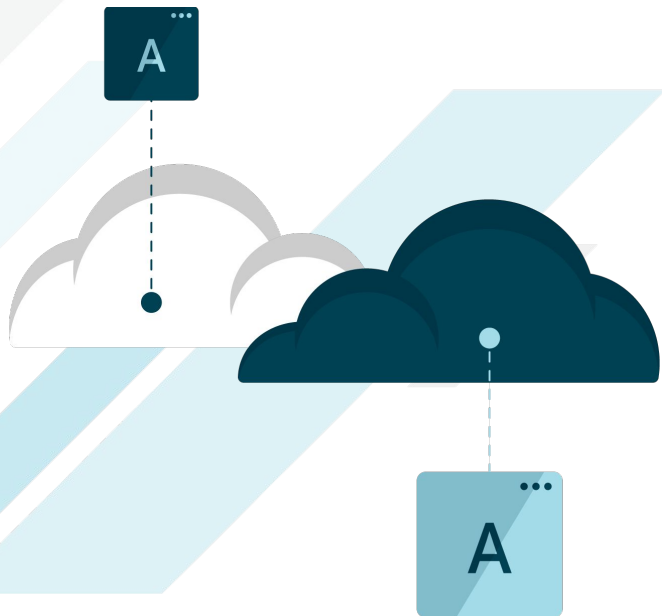
CLOUD NATIVE APPLICATION IDEALS



Cloud native applications have some distinctive architectural characteristics and are designed to leverage cloud environments.

- Ability to handle dynamic scaling, load configuration in flexible ways, and aggregate logs
- Dynamic discovery of dependencies
- Load balancing of requests to dependencies
- Enable application monitoring and distributed tracing
- Circuit breaker and bulkhead patterns
- Feature toggles and health checks

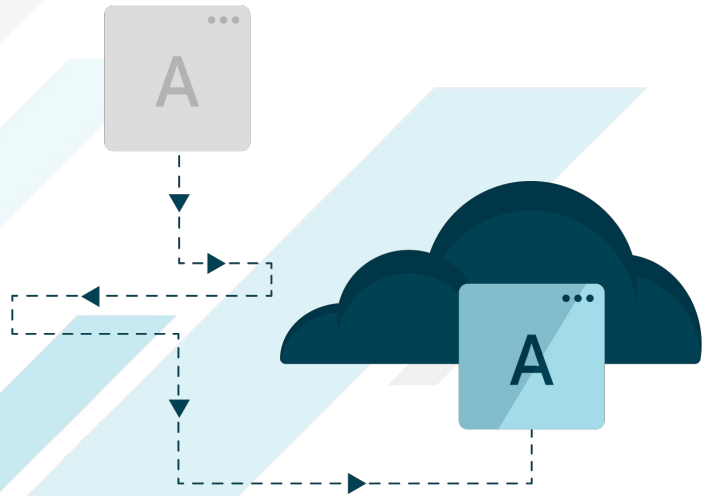
BEFORE GOING CLOUD NATIVE, START WITH CLOUD COMPATIBLE



We start with some simple application changes:

- Create support for external configurations
- Remove IP bindings
- Run on Red Hat® Enterprise Linux 6.4+ compatible libraries
- Ensure logs write to console/stdout

JOURNEY FROM CLOUD COMPATIBLE TO CLOUD NATIVE



Cloud compatible represents the **minimum viable product** required to onboard to container-based cloud platforms.

Progress can be made along the continuum towards cloud native with **subsequent iterations**.

Actual end state should be **dictated by the needs of the business**. Not every application needs to be fully cloud native in order to provide value!

BEGIN

Discovery Session

Container Platform Pilot (8w)

Infrastructure
HA Lab Install/Mentoring

Release Management
Lightweight Promotion

Application Development
Containerize 3 Applications

Infrastructure
Production MVP Release 1

Release Management
Standard CI/CD

Application Development
First App/Team Onboarded

Infrastructure
Begin Release 2 Operationalization

Release Management
Begin Custom CI/CD Pipeline

Application Migration Planning
Analysis and Prioritization

Open Innovation Lab
Team 1

Weeks 1-3

Weeks 4-8

Weeks 9-12

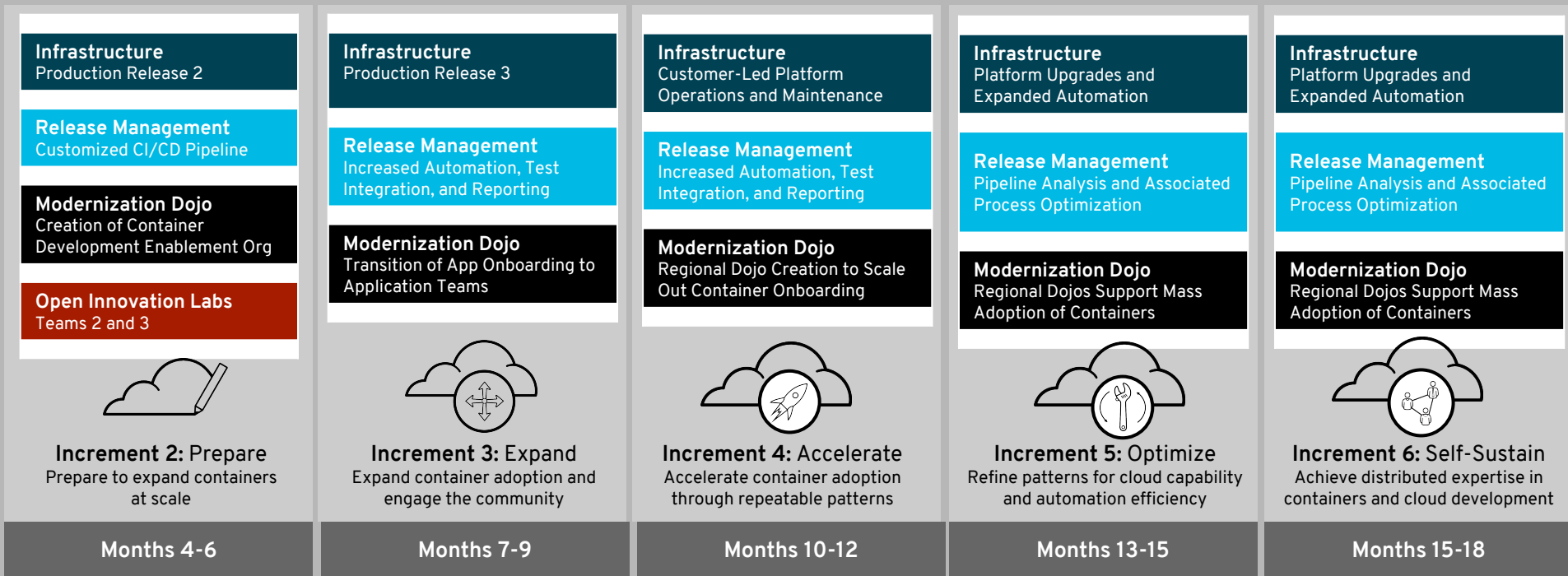
Day 0



Increment 1: Align and Prove
Validate container technology as appropriate
for the organization

INCREMENT 1: ALIGN AND PROVE

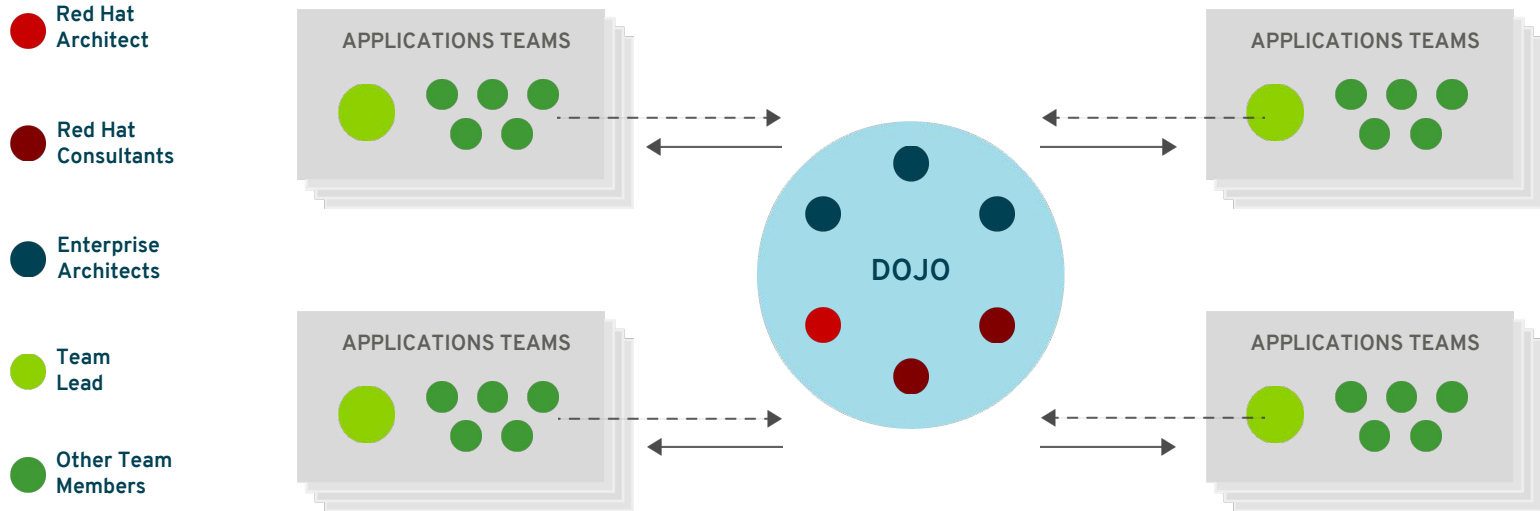
CONTAINER ADOPTION PROGRAM: MONTHS 4-18






INCREMENTS 2-6: RADIATE AND SCALE

RED HAT MODERNIZATION DOJO

ENGINE OF CLOUD MIGRATION ACTIVITY AND ORGANIZATIONAL LEARNING



OPEN INNOVATION LABS AND THE DOJO

	OPEN INNOVATION LABS	DOJO
DEFINITION 	Accelerator for migrating applications while transforming team software development and delivery practices	Internal enablement organization for helping customer application teams onboard to the platform
OWNERSHIP 	Owned and managed by Red Hat	Owned and managed by the customer and customer's system integrator partner Initially seeded with Red Hat® consultants
TIMING 	Active during the startup phases of container adoption program	Stood up during startup phase and active throughout the remainder of the container adoption program

DRIVE A CULTURE OF INNOVATION

Through a space that fosters collaboration



INNOVATE ANYWHERE

- Purpose-driven
- Collaborate and make
- Network and share
- Flex and adapt
- Rejuvenate and connect



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