# FIDELITY'S GOLDEN PATHWAYS

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### FIDELITY'S GOLDEN PATHWAYS Agenda

- CI/CD Spring Boot to EKS
- Problem/Challenges
- Solution/Overcoming
  - Challenges

### FIDELITY CULTURE



- Autonomous teams
- Agile engineering
- Complexities
  - Fragmented developer ecosystem
  - Solving problems
    - separately
  - Scalability



### **PROMOTE ALIGNMENT**

- Developer tooling
  - Developer input
  - Easily discovered
  - Easily consumed

# CONTENS

### Wasting engineers' time

Multiple pipelines for an application

**Thousands of pipelines** 

Similar but not the same

**Pipeline sprawl** 

# WHERE DO I START?

- Copy a previous example
- Build from scratch
- Learn a new tool
- What about all the other tools I must interact with?
  - Code builders
  - Code repositories
  - Cloud secrets management
  - Governance
  - Code review tools

# MAINTAINING PIPELINES

- Updating your code repository
- Changing your vendor
- Removing/adding CI/CD step

- Auditing of included/excluded steps
- APT change of downstream dependence
- Is this valuable work for our engineers?



# APPLYING FOR A CD TEMPLATE

RC

dep

# **TYPICAL CI/CD FLOW**



COMMIT STAGE



# DEPLOYMENT STRATEGY

# THE WORKING GROUP

### Working Group Goals

Identify and create a CI/CD pattern

Use learning days Levels of experience

## WORKING GROUP CHALLENGES

### DEVELOPER FLEXIBILITY

- Environments to deploy
- Steps to development
- Choice of code builders
- Choose regions





# CATALOGS



945ms	651ms	623ms	759ms	724ms	748ms	635ms	638ms	619ms

# CATALOGS



# PREREQUISITES

# MO RE D O LE SS



### FLEXIBILITY

- Configuration through a properties file
- Toggle gates on/off
- Gate of gates
- Soft launch of new gates

# ENCOURAGING ADOPTION

- Working group
- Chapter area
- Focus on pain points

# **MEASURING ADOPTION**

- Currently manual
- Automated via events





# EASILY UPDATED



# ENGINEERING EXCELLENCE



### **ABSTRACTS AWAY COMPLEXITY**



# **REDUCES DUPLICATION OF EFFORT**

# FOCUS ON DELIVERING VALUE









# NEXT STEPS

Explore other patterns
Golden Pathways end-to-end
Local development

• Testing

IaC management

### THANK YOU

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