Why DevOps is hard?

Sandeep Joshi
Enterprise Transformation Coach | IBM

sandeepj@sg.ibm.com | @sandeepmvp
Nirvana State
Automate Everything, Even the automated

What we get sold with?
Your DevOps Pilot

The period of highest excitement, fights and fun

Quick Wins
4 to 6 weeks

Business Critical
Clear Business Value

Persistent Team
Cross functional team

Show & Tell
Demonstrate and Influence Others
The main obstacles to improved business responsiveness are slow decision-making, conflicting departmental goals and priorities, risk-averse cultures and silo-based information.

*Economist Intelligence Unit: “Organisational Agility: How business can survive and thrive in turbulent times”*
Some hard facts about state of DevOps in FSI enterprises

What are the biggest barriers to deploying software at speed and scale?

- Provisioning infrastructure: 28%
- Environment bottlenecks: 19%
- Last-minute security tests: 48%
- Changing requirements: 34%
- Compliance/regulation/governance concerns: 36%
- Testing: 22%
- Other: 7%

What is the average time it takes to bring a new software product from ideation to market?

- 18 months and over: 11%
- 12-18 months: 39%
- 6-12 months: 20%
- 3-6 months: 16%
- 3 months or less: 14%

How difficult is it to attract the right talent?

- Extremely difficult: 14%
- Very difficult: 40%
- Somewhat difficult: 30%
- Slightly difficult: 12%
- Not at all difficult: 4%

*Source: https://www.contino.io/insights/introduction-to-the-state-of-devops-in-financial-services-top-10-findings*
Key Enterprise Scaling Challenges

Do we have a way to overcome these challenges?
Basic Principles

1. The Right People
2. Start Small
3. Use a Learn and Adapt Approach
4. Use Minimal Viable Products approach
5. Just Enough Governance
6. Dependencies and Blocker Management
7. Use Adaptive Architecture
8. Visualise “Everything”
9. Delivery and Design Principles
10. Discipline

10+1 Anti Patterns
10+2 Don’t Stress
10+3 Inception is mandatory
What worked for us

Lessons from multiple successful DevOps engagements across clients

Garage Method - Structured Framework for Scaling DevOps
Be Open and respectful

Method, Architectures, Guidance, Learning

What type of app do you want to build?

Application Architecture
Runtime Choices
Sample Code

How should you build it?

DevOps Practices
DevOps Toolchains
DevOps (toolchain) Architecture

Build and scale with examples and proven architectures

Architecture Center
Cognitive
Microservices
Data and analytics
Mobile

IoT
Virtualization
Hybrid Cloud
Security
Service management
DevOps

Simple, Getting Started App

Enterprise Apps built by teams using DevOps practices & toolchains

Developer journey

Architecture Center content

Freedom to choose and Adapt (Open, Flexible, Enterprise Grade)
Thank You!

Resources:
Garage Method
http://ibm.com/devops/method

Perioding Table of DevOps Tools

Sandeep Joshi
Enterprise Transformation Coach | IBM
sandeepj@sg.ibm.com | @sandeepmvp

Don’t boil the ocean at once. Sustain your ripple effect through grit!