

DETAILED COURSE CURRICULUM

Building an app by applying DevOps practices and using various tools & technologies	
Day 1	
	Introduction to DevOps
	Collaboration (Lots of activities)
	Backlog Grooming
	Scenarios Identification
	3 Amigos meeting, Addition of 4th amigo Ops
	Value Stream Mapping
	Continuous Testing (Hands-on)
	Test Pyramid and Test Strategy
	Shift Left and Shift Right Testing
	BDD
	TDD
	Source Control - Git
Day 2	
	Continuous Integration (Hands-on)
	Build Automation Strategy
	Build Pipeline
	Trunk Based Development and Feature Toggle
	Setup CI Server - Jenkins
	Code Quality (Hands-on)
	Static Code Analysis (setup and use SonarQube, JocoCo)
	Code Review (gerrit)
	12 factors App
	Automated Deployment (Hands-on)
	Flexible Architecture and Feature Toggle
	Deployment Strategy
	Binary and Package Management (Nexus, Artifactory)
	Build Automation Vs Automated Deployment
Day 3	
	Automated Provisioning (Hands-on)
	Need and Strategy of IAC
	Tool Comparison (Puppet, Chef, Ansible, Salt)
	Tools comparison and deep dive of one tool
	Container introduction
	Docker hands-on
	Monitoring (Hands-on)
	Need and Strategy
	Tool Hands-on (ELK, Sensu)
	Additional

Serverless Architecture - a game changer

Hands-on building serverless app using AWS Lambda