CI/CD Execution - DRAFT 5 (Developer -> DEV Deployment) Future: DEV Deployment to Production (Continuous Delivery) AWS S3 Maven Repository Legend: Green Arrow = In Operation Yellow Arrow = Partially Completed If Successfully Packaged Red Arrow = Working on Implimentation Container Build Security Testing Docker Container(s) Build Build Spring Boot Jar Angular Package Developer Developer Pushes Code via Develop Branch Jenkins Fucntion Library Step 1 Code Global Jenkins Security Testing **Groovy Programs** Unit Tests Jenkins Notified of Change via AWS SNS Artifact Generation with Lambda Program Simultaneous Execution GitHub Repo(s) (Github.com) Step 2 Integration Test Step 4 If Successfully Compiled Step 5 Testing Selenium & Endpoint Testing (Functional Testing) Jenkins If Successfully pushed Executed for to AWS ECS Dev Cluster all Tasks If Successfully pushed If Jira # in Commit Jira Project to AWS ECS QA Cluster Comments (Atlassian Cloud) Stage Cluster Generation and Deployment— Step 3 DEV Only -QA Cluster Generation and Deployment-Part of Notification ChatOPS initiative DEV Cluster Generation and Deployment-QA & instead of email PROD AWS ECS Generation Only and Deployment Slack Notification Channel Generate CloudWatch Configuration Docker Compose **AWS Compose** AWS ECR (Container Registry) Cloudwatch Logs **AWS Cloudwatch** Generate all the Configuration for the Package ECS Task then deploy to ECS Cluster using a non interupting cycle **ECS Service**