# Development productivity in a postserverless world

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# Once upon a time





#### **Principal Engineer at Chronomics**

#### Things I love

- Distributed systems
- Event driven architectures
- Cloud native
- Serverless
- Continuous delivery

#### Things I hate

- Regular expressions
- IoC container

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# **Agenda**

- From servers to serverless
- Infrastructure as code





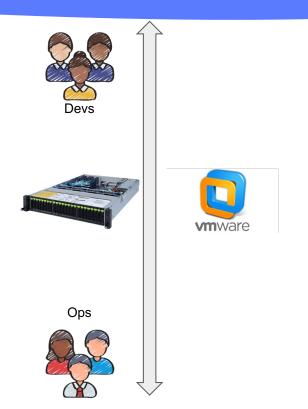


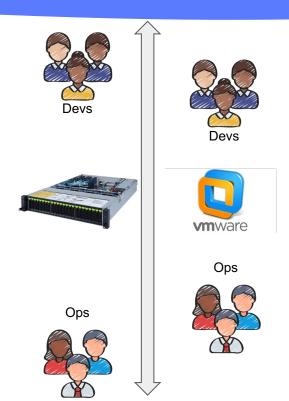


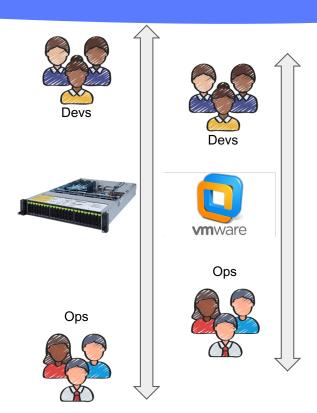
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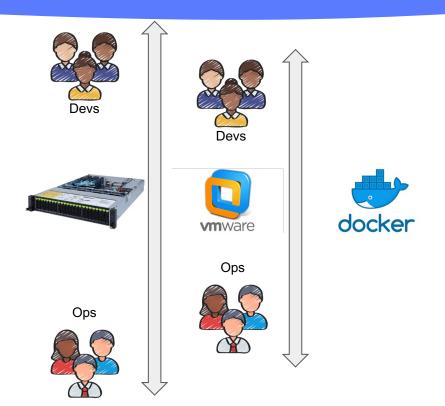


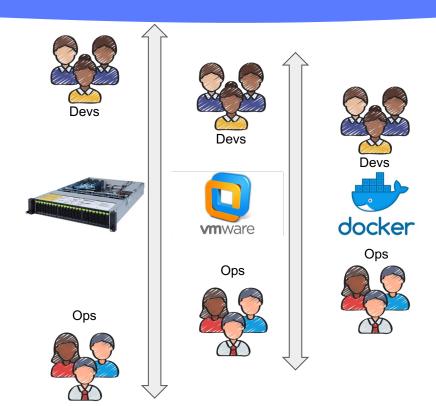


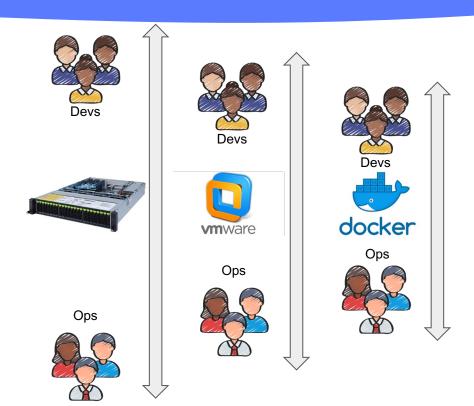


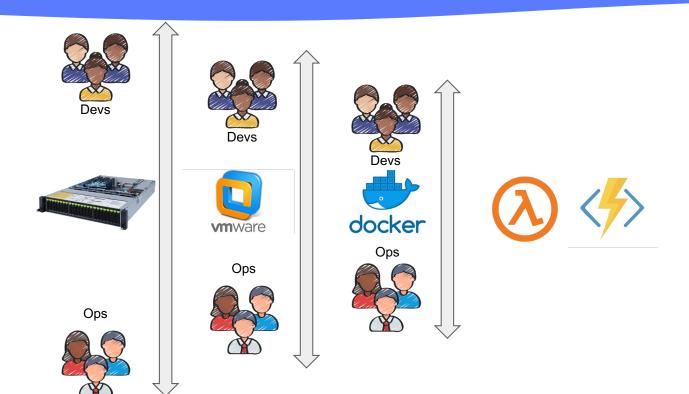


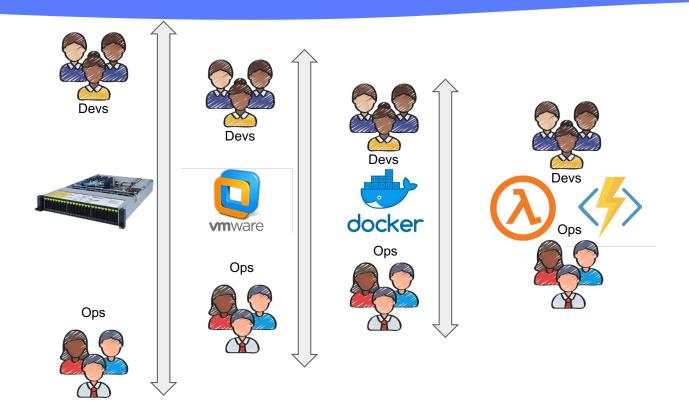


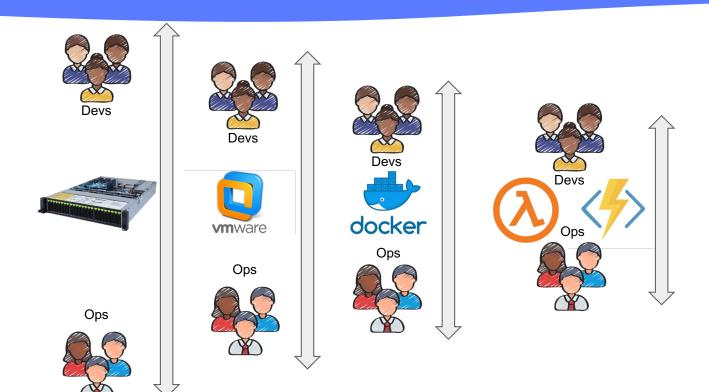






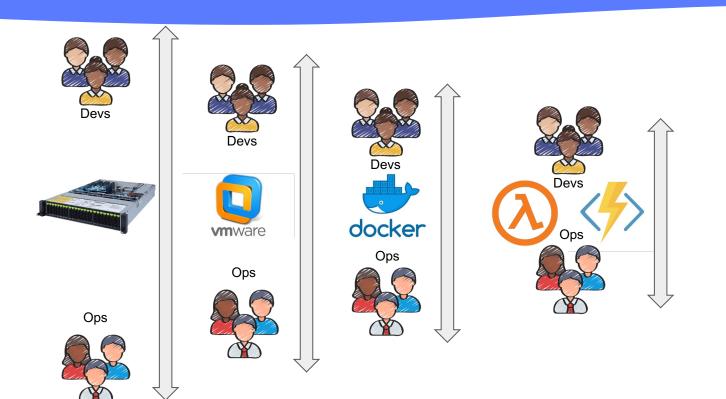






```
runtime: nodeis16.x
      stackName: lab-fulfilment-service-stack
       - Effect: "Allow"
         Resource: "arn:aws:dynamodb:${self:provider.region}:${aws:accountId}:table/LabFulfilmentTable"
       name: chronomics-${param:awsAccountName}-buddy-deployments
       MTL_URL: ${self:custom.mtlUrl}
       handler: dist/index.handler
       name: lab-fulfilment-service
       description: aws:states:opt-out
             eventBus: arn:aws:events:eu-west-1:${aws:accountId}:event-bus/chronomics-events-bus
         Type: AWS::DynamoDB::Table
         DeletionPolicy: Retain
           TableName: LabFulfilmentTable
            - AttributeName: labOrderId
             - AttributeName: labOrderId
               KeyType: HASH
           BillingMode: PAY_PER_REQUEST
```

```
import { EventBridgeEvent } from 'aws-lambda';
import getLogger from './logger';
import itemCreated from './service/itemCreated.service';
const logger = getLogger('handler');
export const handler = async (event: EventBridgeEvent<string, object>) => {
  logger.info(`ShippableItemCreated event arrived: ${JSON.stringify(event)}`);
    await itemCreated(event);
  } catch (e) {
    logger.error(`Failed to handle ShippableItemCreated`, e);
    throw e;
export default handler;
```





# Infrastructure as code





# **Agenda**

- From servers to serverless
  - Infrastructure as code
- Platform as code
- Infrastructure from code

# Platform as code



### Platform as code

- You code the platform over infrastructure or application
- Single language
- Single CI/CD pipeline

### Infrastructure from code



#### Infrastructure from code

- Application driven systems
- Infrastructure as a sub-resource
- Decoupled from any cloud provider

# Q&A

