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# Pitfalls of Infrastructure as Code

And how to avoid them!

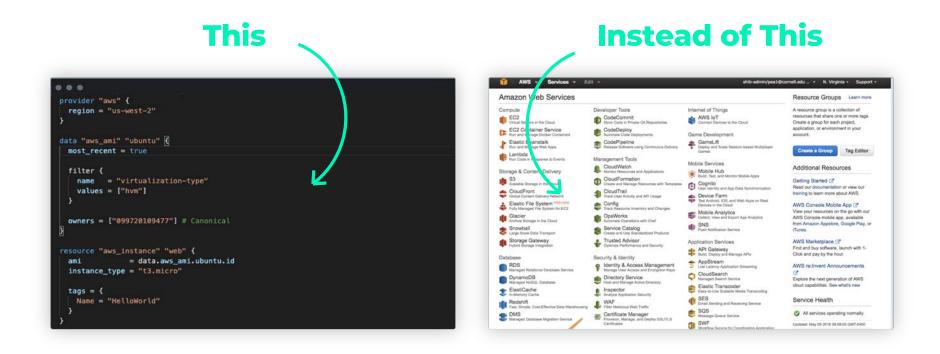
### **About Tim**





#### What is Infrastructure as Code?

#### The Infrastructure As Code Model



What types of pitfalls can come up?

# It's Infrastructure + Code

All of the pitfalls of Infrastructure

All of the pitfalls of Code

**Dev AND Ops Involvement** 

Dev...Ops...DevOps. Get it?



#### Infrastructure Pitfalls

#### **Different IaC Choices**

Which one do you choose?

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#### Security

It's not just an afterthought!



### Security

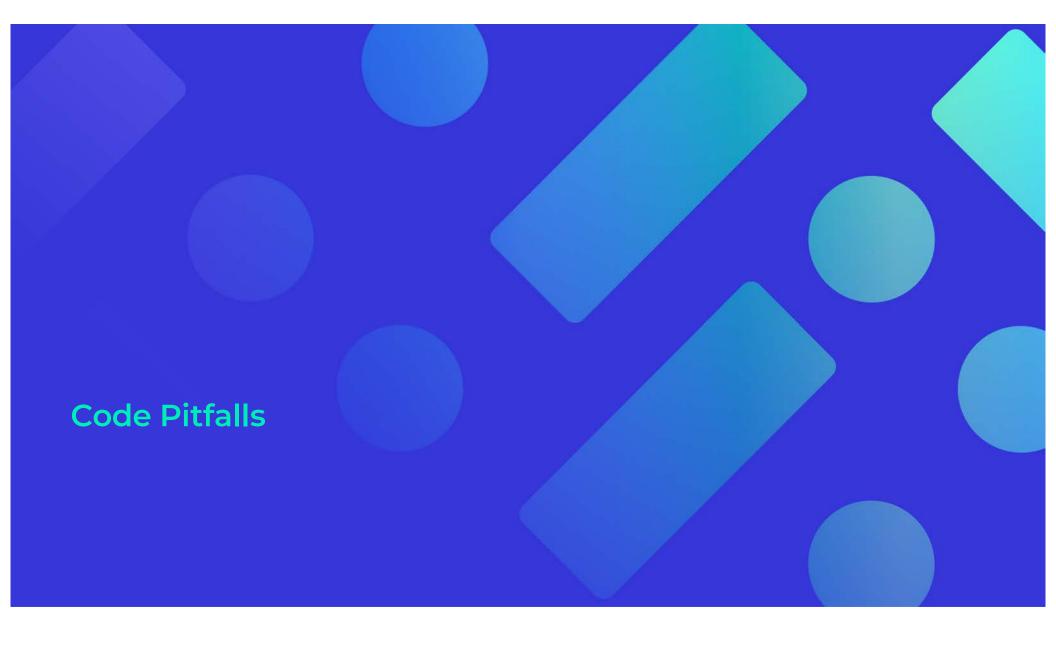
**Shift-Left With:** 







**Open Policy Agent** 



# What are your default values?

Variables?

Defaults?

What happens when it's blank?

# How do we mitigate value issues?



# **Open Policy Agent**

#### 2 // DRY – DO NOT REPEAT YOURSELF

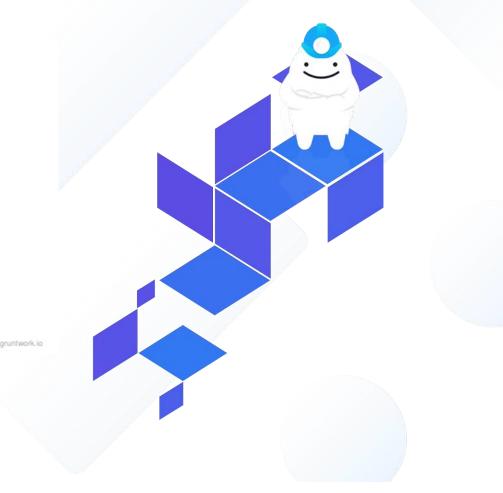
console.log('I will not repeat myself') 4 console.log('I will not repeat myself') 5 console.log('I will not repeat myself') 6 console.log('I will not repeat myself') 7 console.log('I will not repeat myself') 8 console.log('I will not repeat myself') 9 console.log('I will not repeat myself') 10 11 console.log('I will not repeat myself') console.log('I will not repeat myself') 12

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# How to mitigate DRY issues?





# **Designing for State Size?**

- 101

# How to mitigate State size issues

We already learned that!

#### 2 // DRY – DO NOT REPEAT YOURSELF

console.log('I will not repeat myself') 4 console.log('I will not repeat myself') 5 console.log('I will not repeat myself') 6 console.log('I will not repeat myself') 7 console.log('I will not repeat myself') 8 console.log('I will not repeat myself') 9 console.log('I will not repeat myself') 10 11 console.log('I will not repeat myself') console.log('I will not repeat myself') 12

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# How to mitigate State Size issues?





#### Where to Learn More



