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Pitfalls of Infrastructure as Code

And how to avoid them!

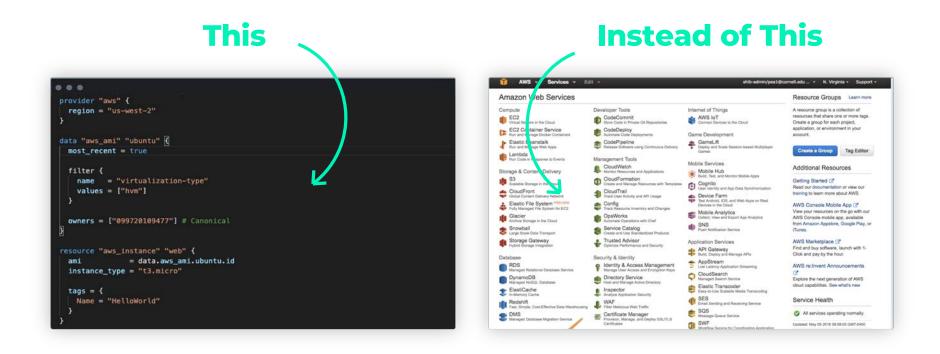
About Tim





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

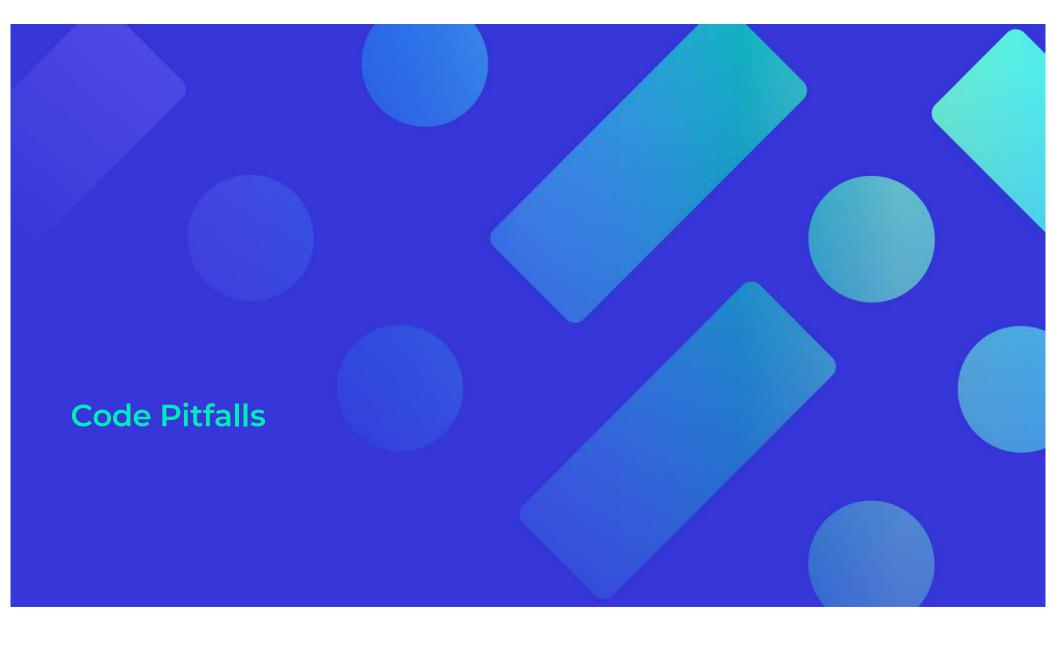
Shift-Left With:







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

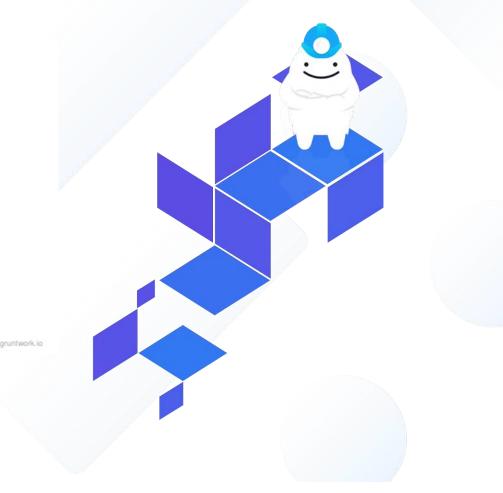
console.log('I will not repeat myself') 4 console.log('I will not repeat myself') 5 console.log('I will not repeat myself') 6 console.log('I will not repeat myself') 7 console.log('I will not repeat myself') 8 console.log('I will not repeat myself') 9 console.log('I will not repeat myself') 10 11 console.log('I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

13

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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



