



Alexa: Am I Well Architected and Secure?

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www.csacolorado.org

Monthly in-person meetups – free to attend! Annual 1-day Fall Summit



- Well Architected:
 - What it is
 - Why it's important.
- Demo:

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- Create
- Interrogate
- Attack
- Break
- Identify
- Remediate.
- Destroy

Slides!

Prizes!

Live Demo!

Time Sensitive!

Alexa!



What can possibly go wrong?







Well Architected Framework

In the cloud it's easy to do things fast. It's another thing entirely to do them well

Operational Excellence



) Operational LXG

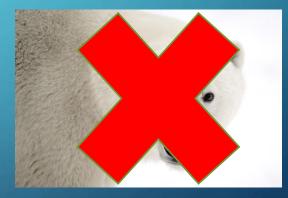
Security



Performance Efficiency



Sustainability







(Operational) Excellence

The BIG idea: AC

Reusable Repeatable



 The Soft Stuff:
 Incremental Changes

 Continuous improvement

Prepare for..and learn from...failure





Security

IAM: Identity and Access Management
Strong Observability: Log all the things, Monitor, Alert
Defense in Depth
Protect data in transit and at rest – by default
Compartmentalize. Reduce the blast radius
Automate!







Test disaster recovery procedures – through automation Automatically recover from failure – through automation

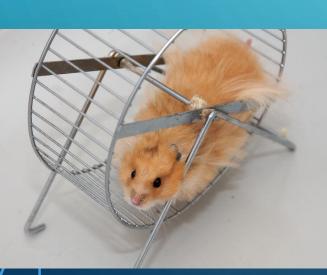
Scale horizontally – through automation



Performance Efficiency







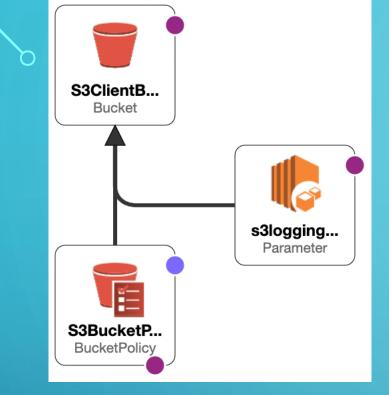
Services not systems

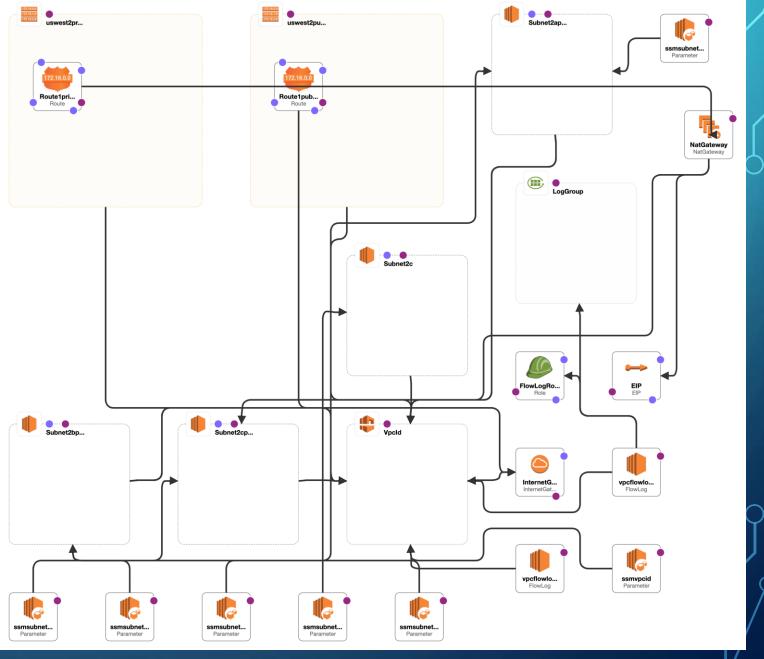
 Democratize Advanced Technologies
 Mitigate Undifferentiated heavy Lifting and focus on the business
 Mechanical Sympathy: The right tool for the job
 Serverless! Microservices for everyone!
 Experiment! Innovate! Do it fast!





Pay by the second. Pay by the GB. Sometimes by the I/O Understand the cost dimensions. Design in a tuneable way Tag all the things

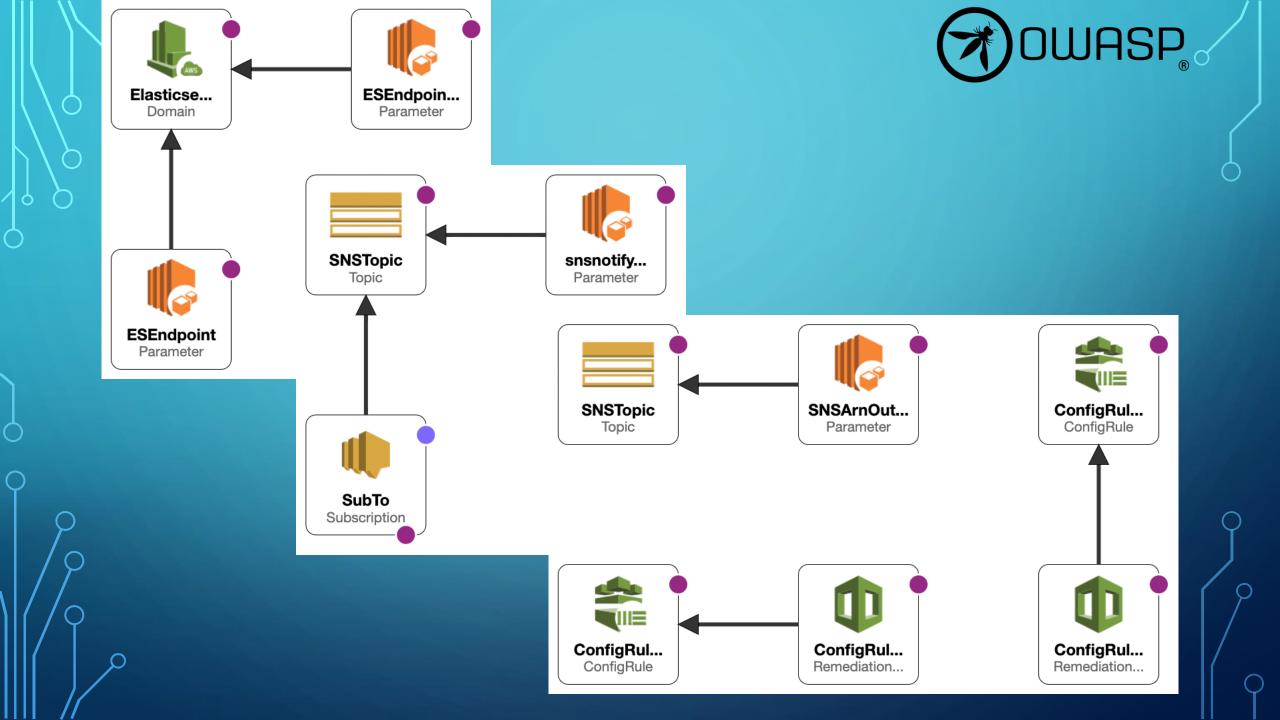


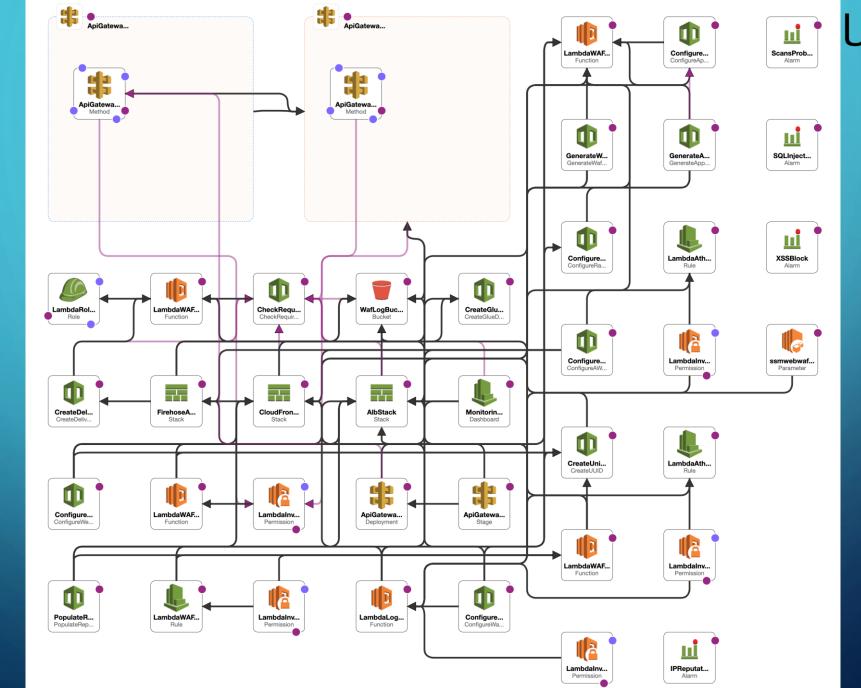


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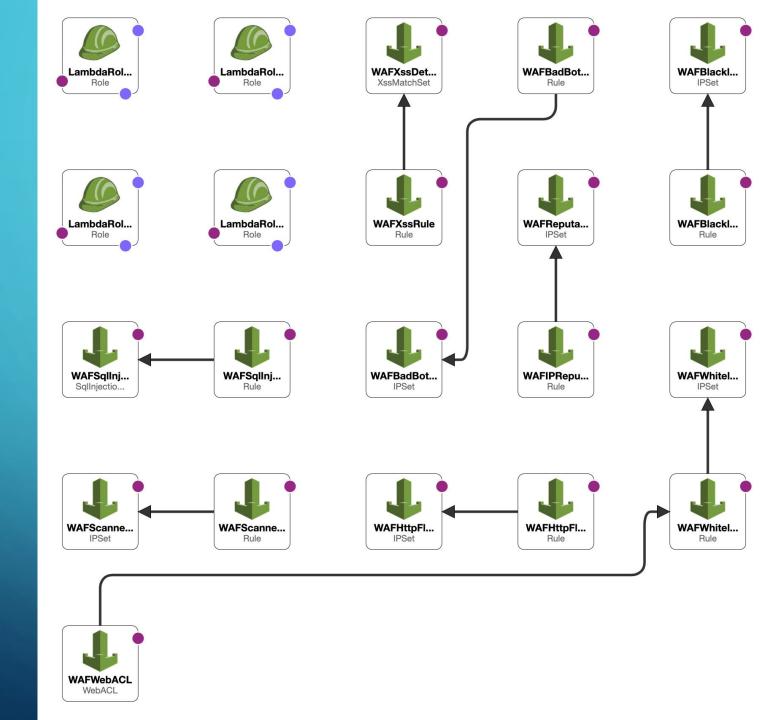


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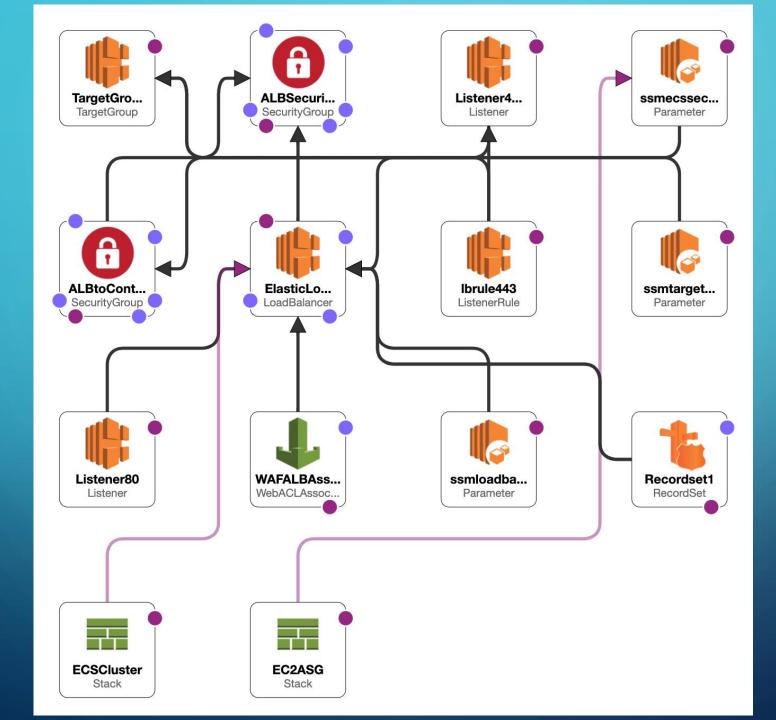
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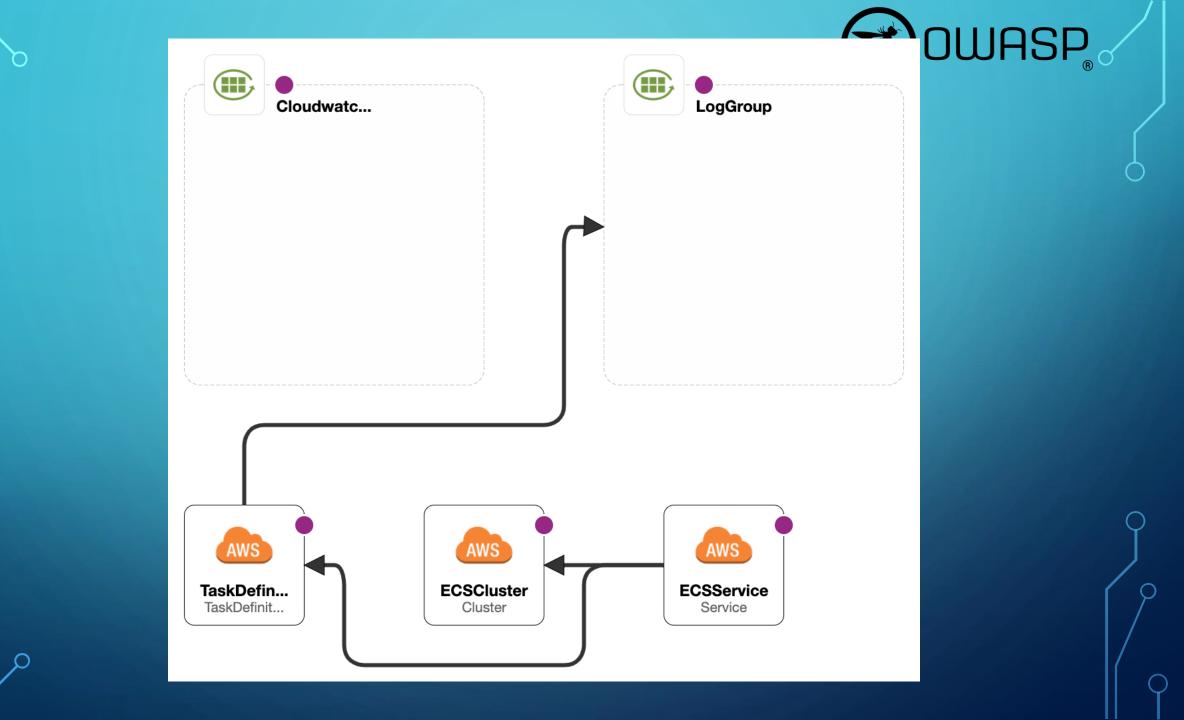
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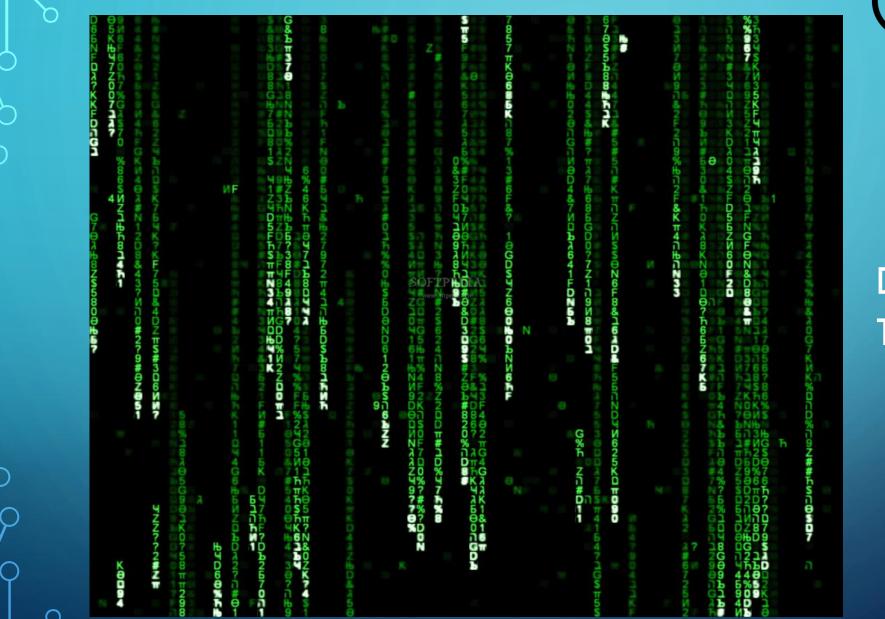
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OWASP







Demo Time



The Well Architected is a a useful system to help "Think Cloud"

It helps you Shift Left...for Everything

Automation is awesome. Dangerous, too.

Questions?







CLOUDB

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