And the CFO Wept: Cost Control For AWS

lastweekinaws.com

By Corey Quinn, Cloud Economist





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Has this ever

happened to you?















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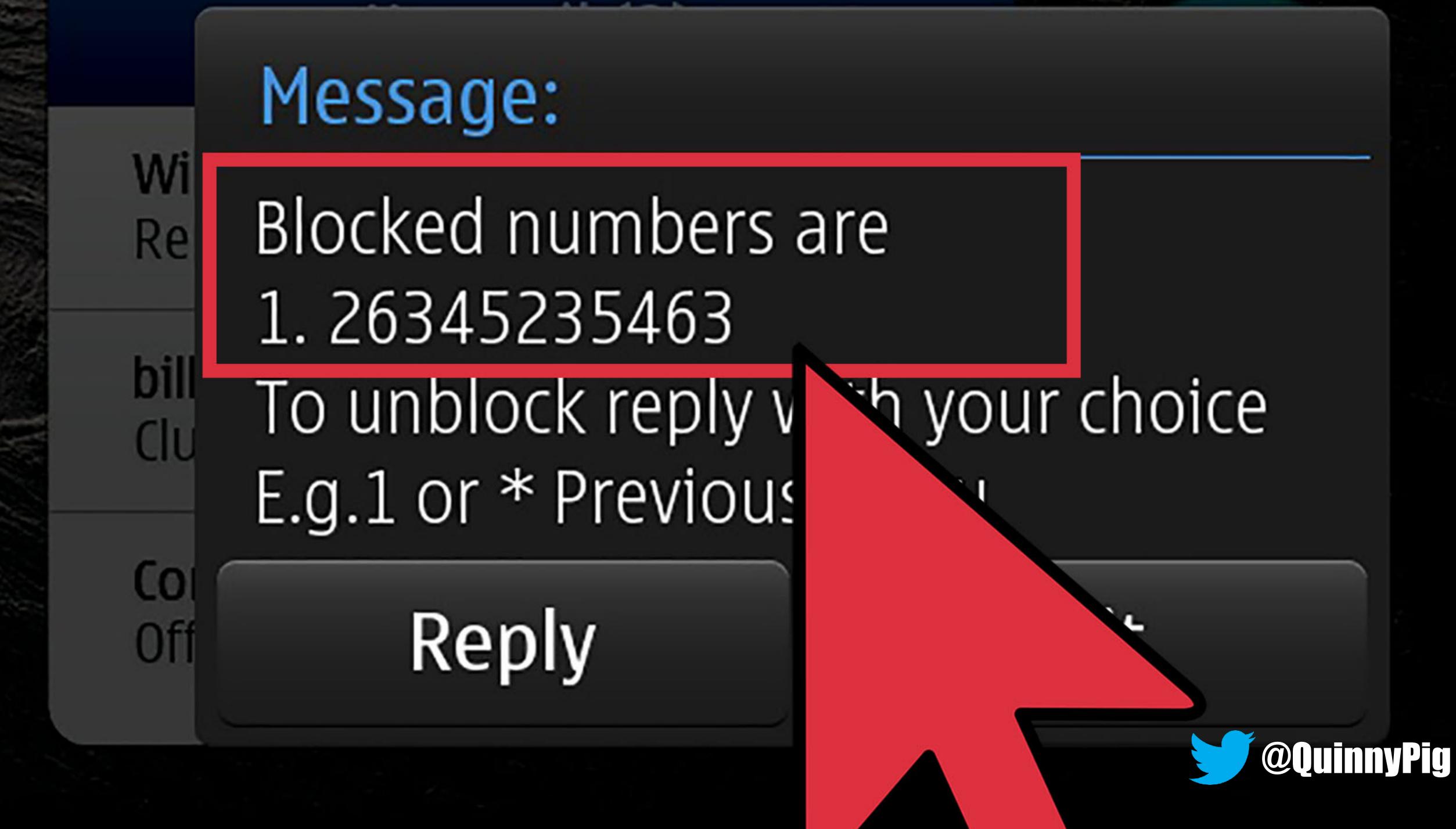
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une pipe











- Reserved Instances
- Spot Fleet usage
- Refactoring tasks into Lambda functions
- Bigger GP volumes versus smaller
 Provisioned IOPs volumes
- Turn off unused instances
- Convert ELBs to ALBs (maybe)
- Release unused EIPs
- Upgrade old instances to new generations
- Delete old unneeded data

- Lifecycle policies to age out data to IA / Glacier
- Optimize your read / write patterns on RDS
- Rearchitect your replication strategy
- Delete failed multipart upload artifacts
- Understand that every million reads/writes on Aurora costs you a quarter
- Clean out unneeded EBS snapshots
- Check for orphaned EBS volumes
- Did you remember to check all regions?





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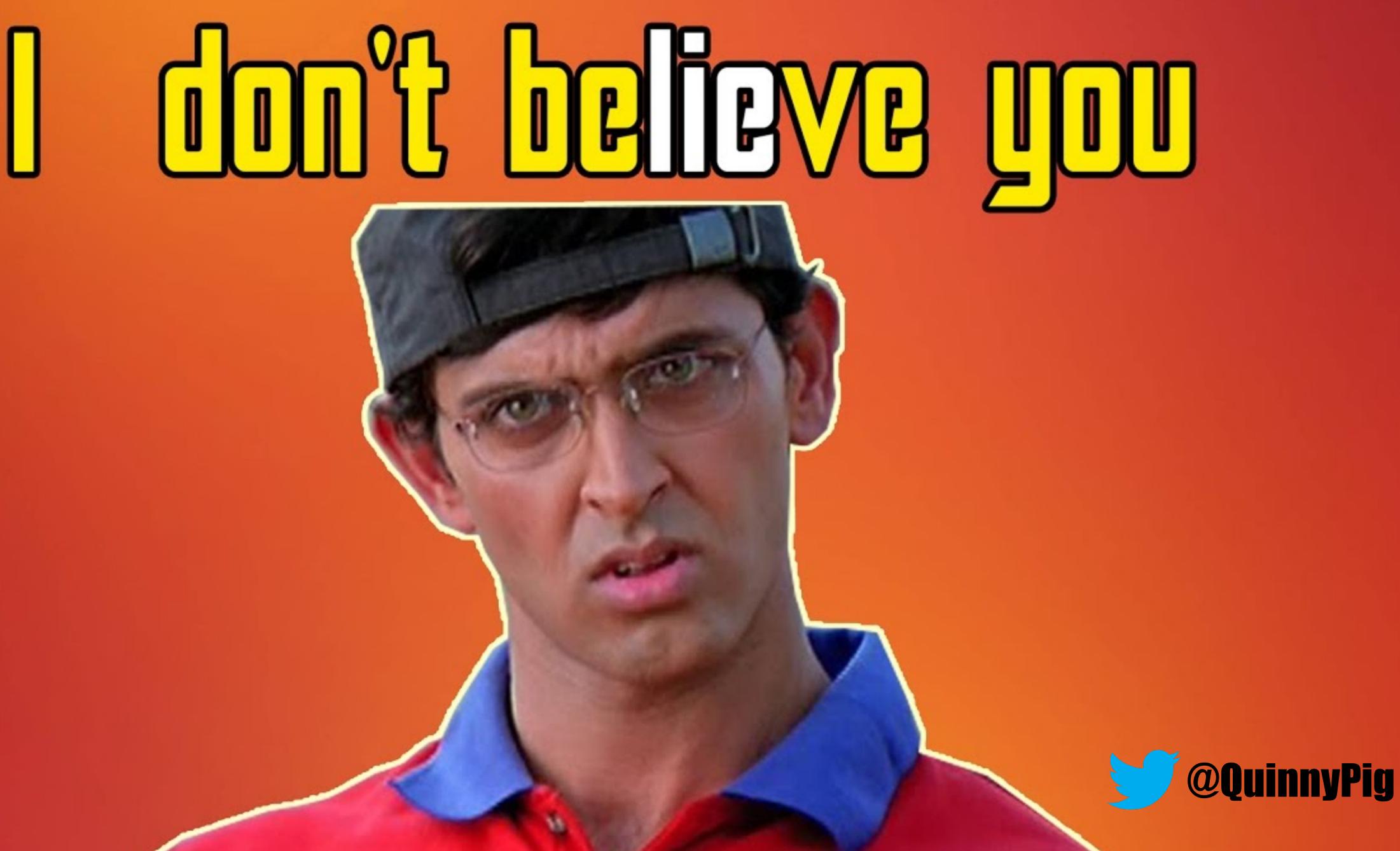




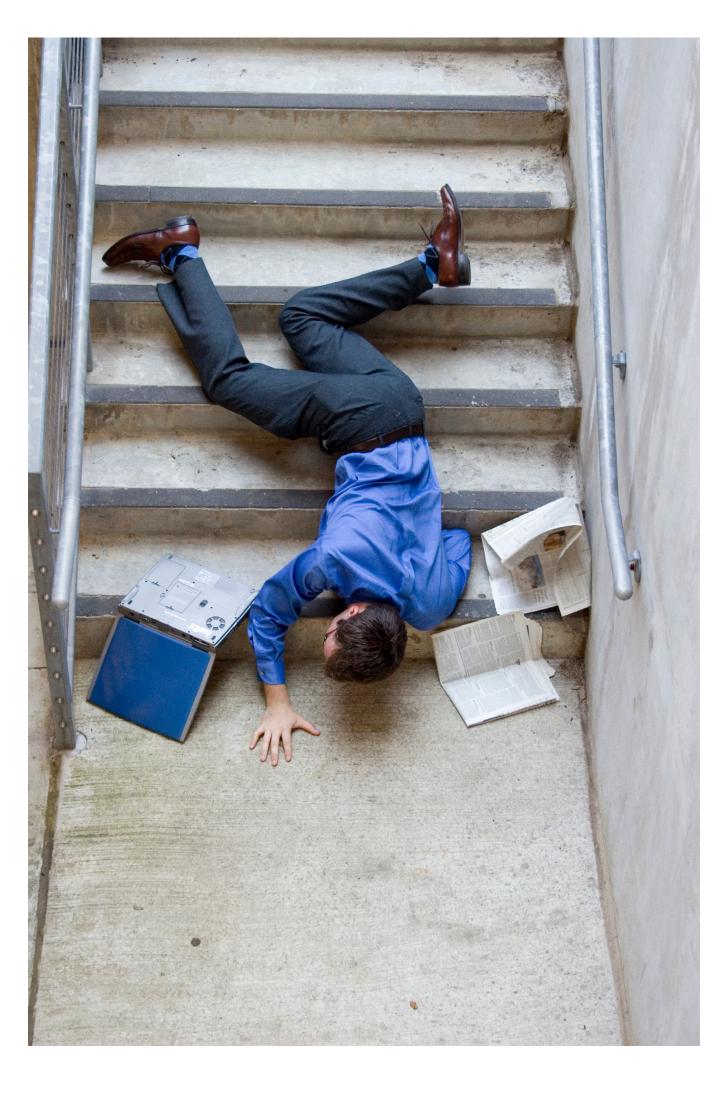












How much did Project StairFall cost the company?







How much of the bill is R&D? **QuinnyPig**



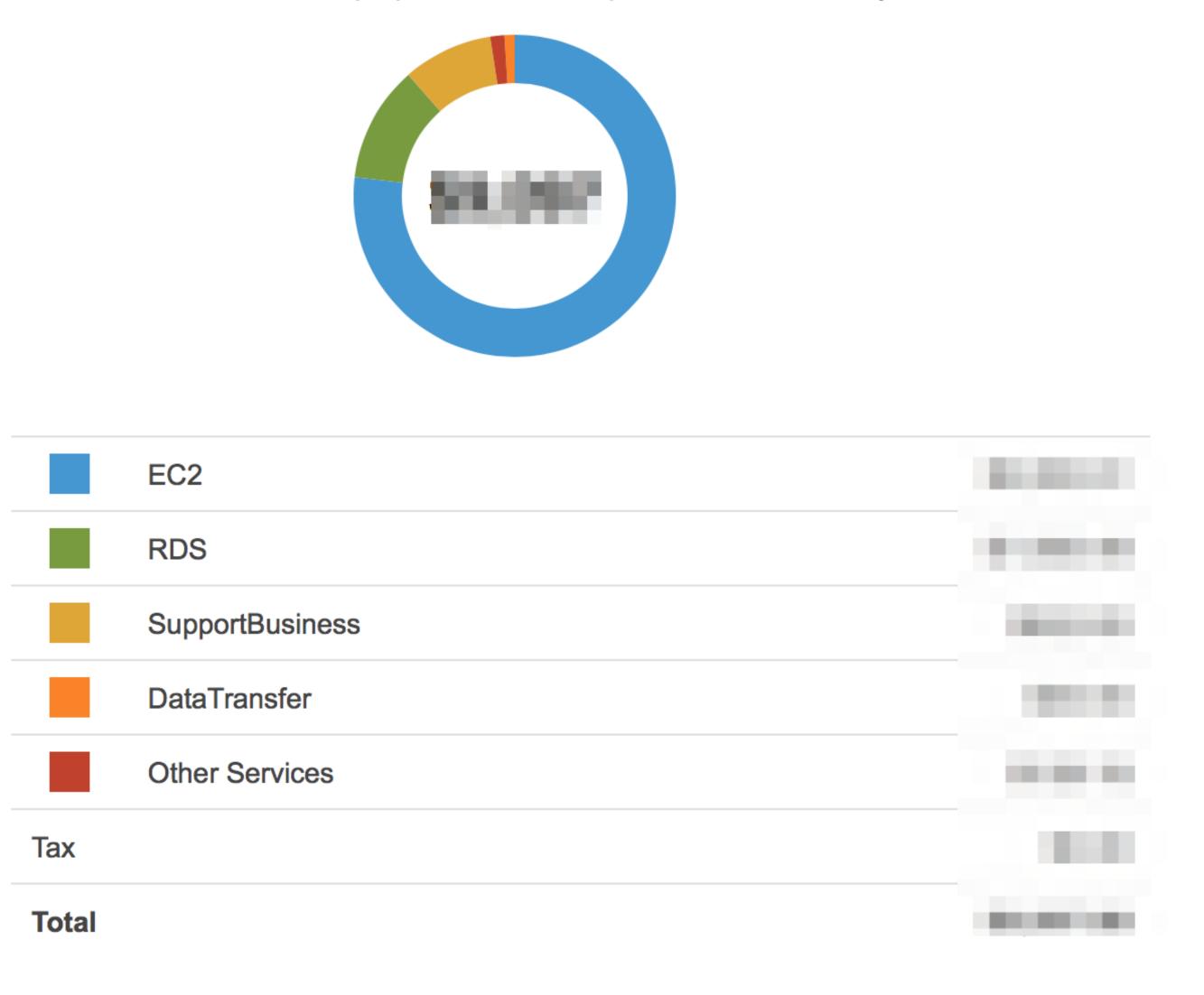


If we add another 1000 users, what will that cost? <a>Second Second Second



Month-to-Date Spend by Service

The chart below shows the proportion of costs spent for each service you use.



Bill Details











UNLEASH THE BEAST

FREE HUGS



PROZAC WITH FUR

RUB MY BELLY FOR GOOD LUCK























Build a tagging strategy that works.













Ca.



















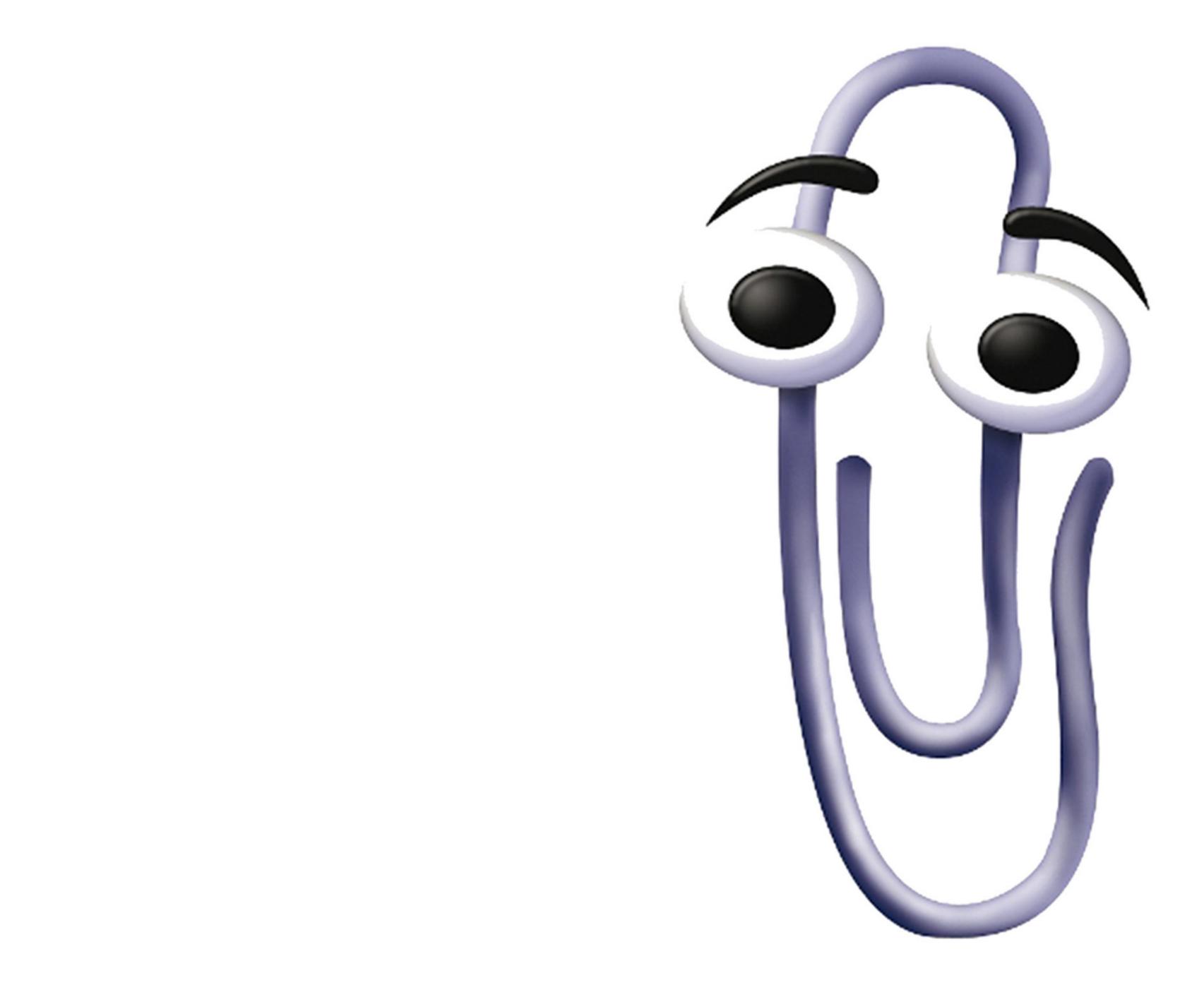




Microsoft Azure













OQuinnyPig

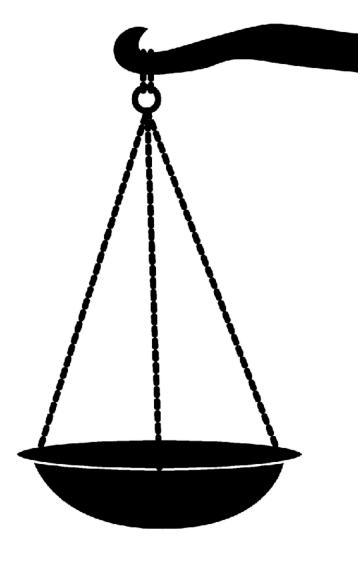




HE DATA-DRIVEN — FUTURE —







Exercise Judgement.















- Have a plan.
- Understand where your money is going.
- Be able to allocate spend







Now some thoughts on cost control







- Reserved Instances
- Spot Fleet usage
- Refactoring tasks into Lambda functions
- Bigger GP volumes versus smaller Provisioned IOPs volumes
- Turn off unused instances
- Convert ELBs to ALBs (maybe)
- Release unused EIPs
- Upgrade old instances to new generations
- Data transfer between Ohio and Virginia is half price.

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- Lifecycle policies to age out data to IA / Glacier
- Optimize your read / write patterns on RDS
- Rearchitect your replication strategy
- Delete failed multipart upload artifacts
- Understand that every million reads/writes on Aurora costs you twenty cents.
- Clean out unneeded EBS snapshots
- Check for orphaned EBS volumes
- Did you remember to check all regions?

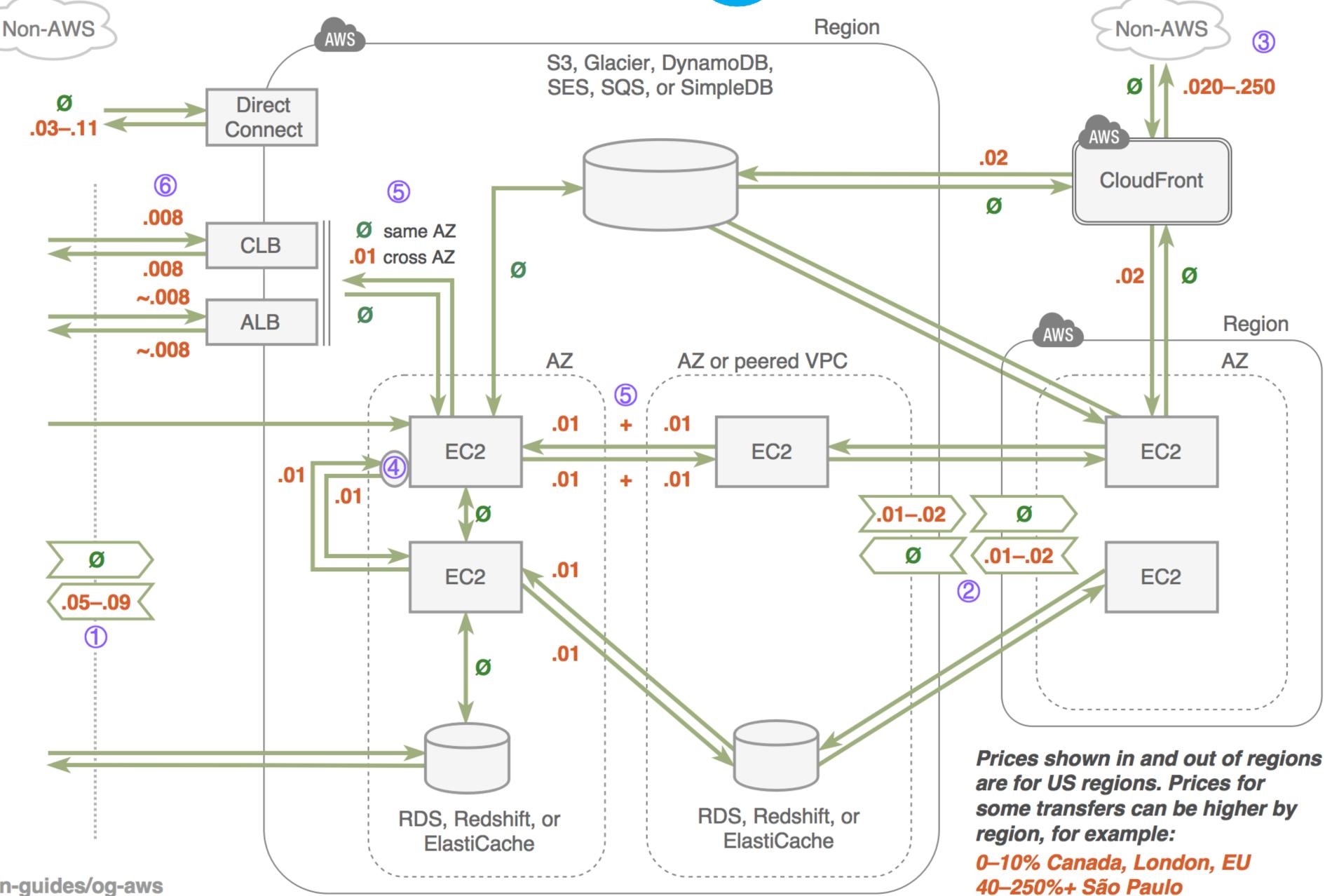


AWS DATA TRANSFER COSTS

Numbers are data transfer in \$/GB. Transaction and hourly prices are not shown. See notes.

- Ø Free. Inbound traffic is mostly free
 —you pay on the way out. Some
 but not all internal traffic is free.
- 1 Direct outbound data starts at \$.09/GB for <10TB, and discounts with volume. First 1GB free.
- 2 Region-to-region traffic is \$.02/GB when it exits a region for indicated services except between us-east-1 and us-east-2, where it's \$.01/GB.
- 3 Outbound CloudFront prices are highly variable by geography and regional edge cache and start at \$.085/GB in US/Canada.
- 4 Internal traffic via public or elastic IPs incurs additional fees in both directions.
- **(5)** Cross-AZ EC2 traffic within a region costs as much as region-to-region! ELB-EC2 traffic is free except outbound crossing AZs.
- 6 Elastic Load Balancing: Classic LB is priced per GB. Application LB costs are in LCUs, not \$/GB.







Sadly, I have nothing to sell you.

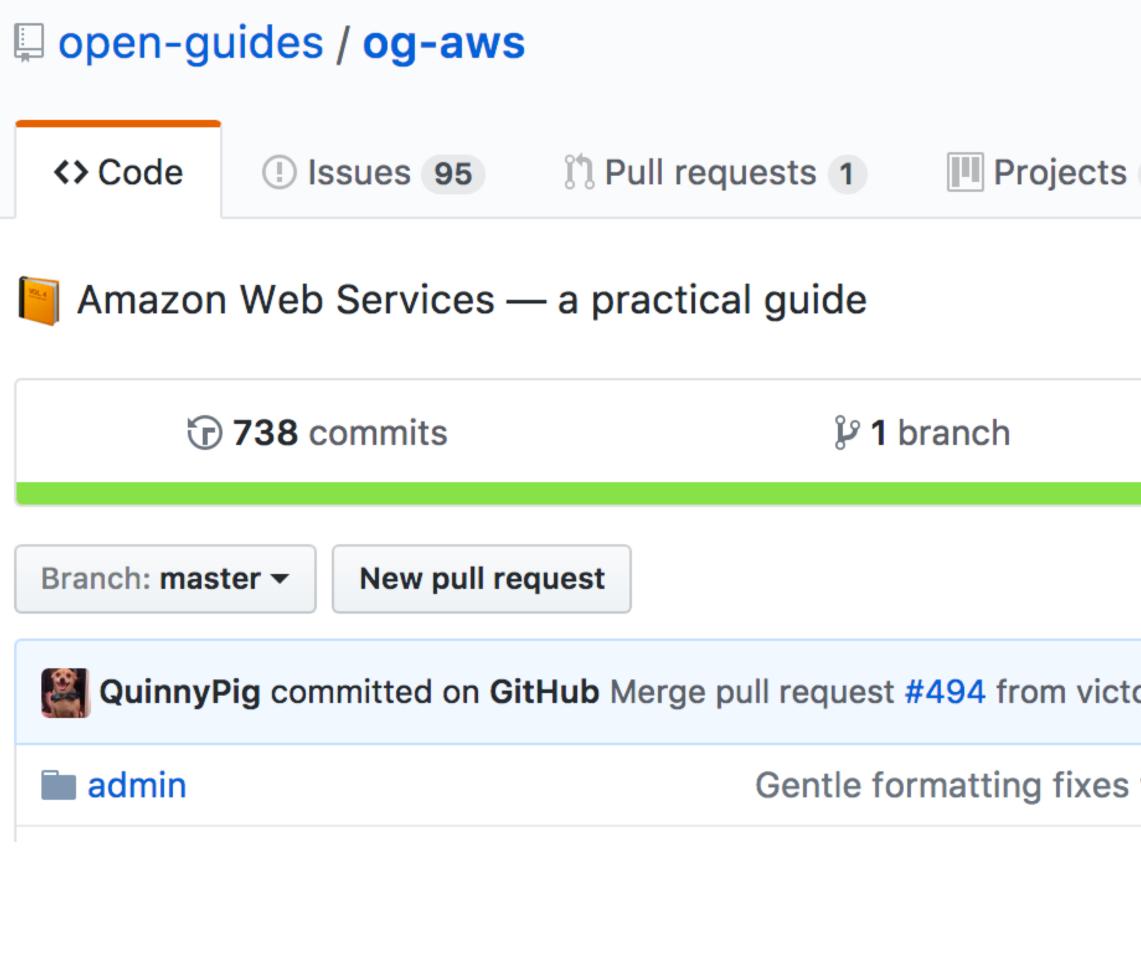




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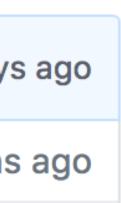


github.com/open-guides/og-aws/ **@QuinnyPig**

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