💟 Hello, brave archive readers! 💟

- This talk was given at purplecon 2024
 - Find it in video form here <u>https://www.youtube.com/watch?v=IsHNK0m7D2U</u>
 - Find more about purplecon here <u>https://purplecon.org</u>
- What should you take away from the talk?
 - Give yourself permission to question the "well-lit path" that big cloud pushes on you
 - \circ $\,$ Simple is nearly always better, and you can design software in lots of ways
- Can you ask me questions or have me consult for you(r company)?
 - Yes! Hit me up at @samthor on a bunch of things
 - Or find me online at <u>https://samthor.au</u>

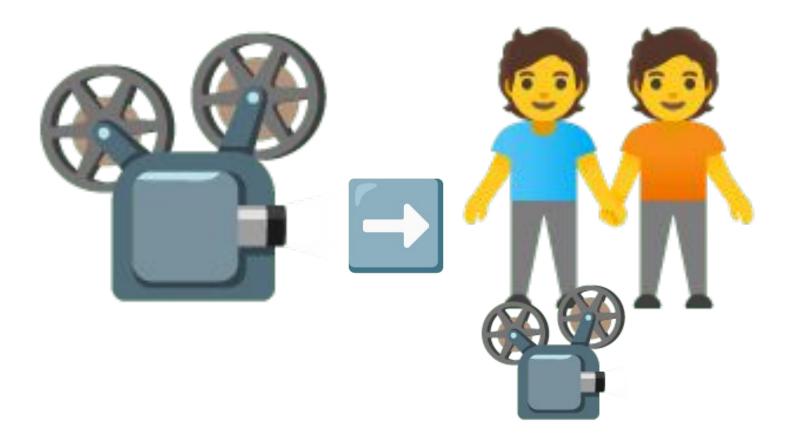


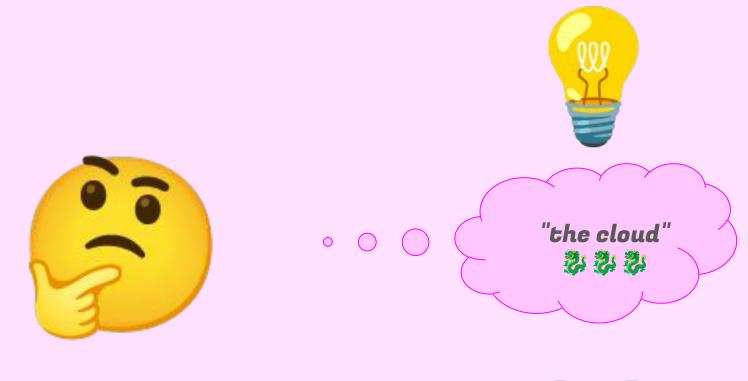
@samthor at purplecon 2024

the dangers of serverless & IAM proliferation

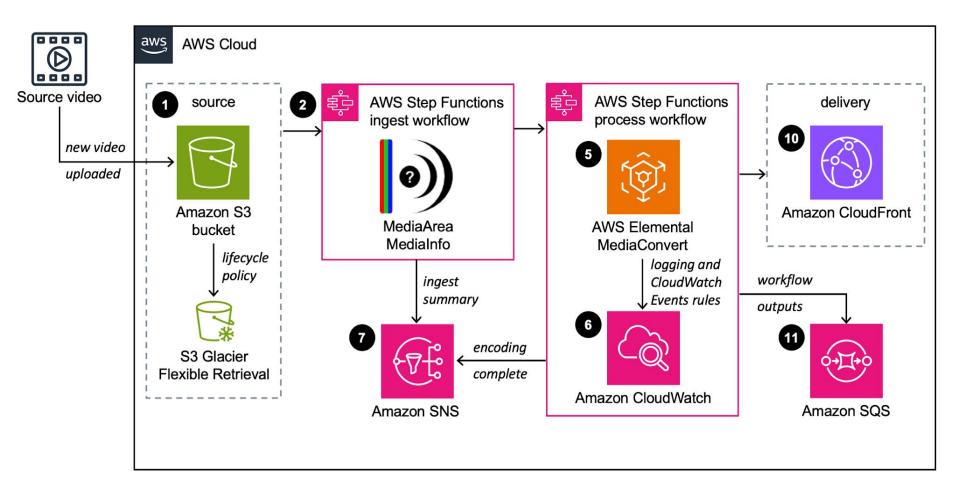
grug smash

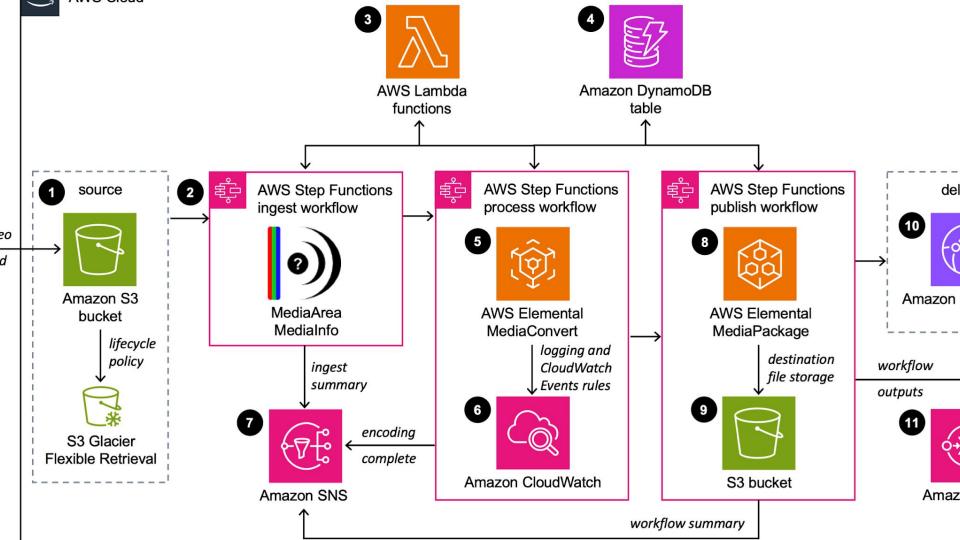




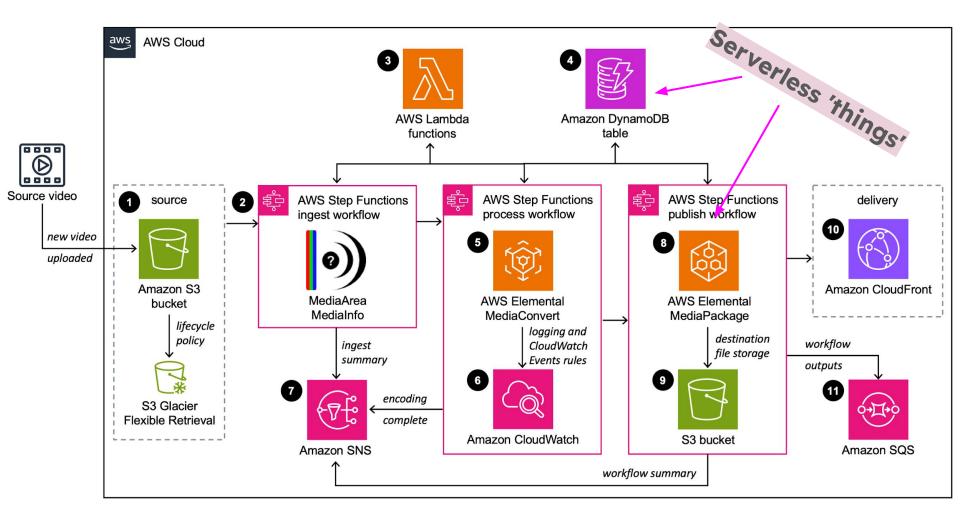




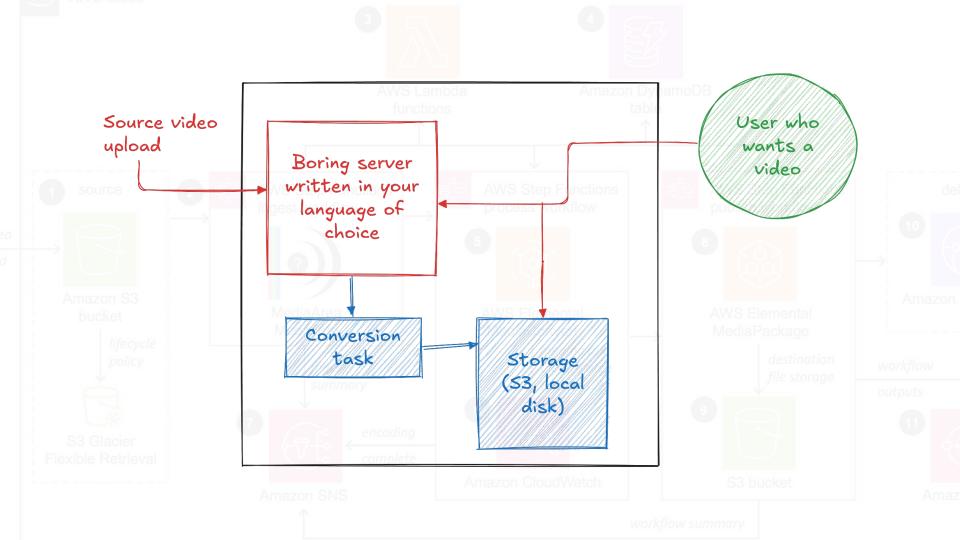












The "Well-Lit Path"



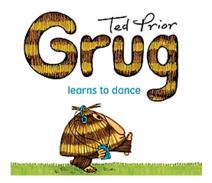
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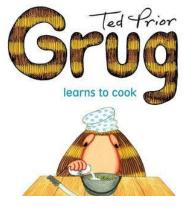


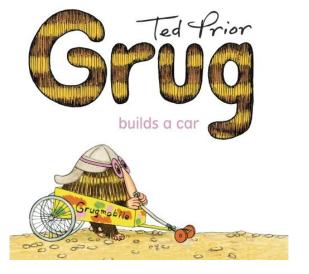
Google Search

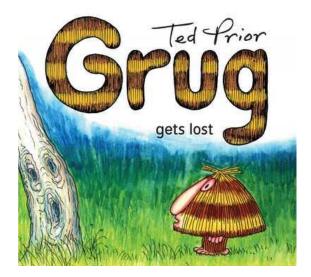
I'm Feeling Lucky

"grug brained developer"



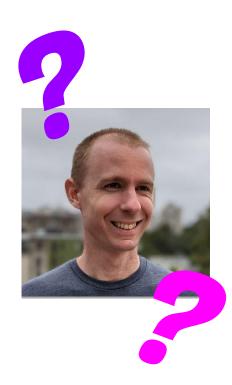


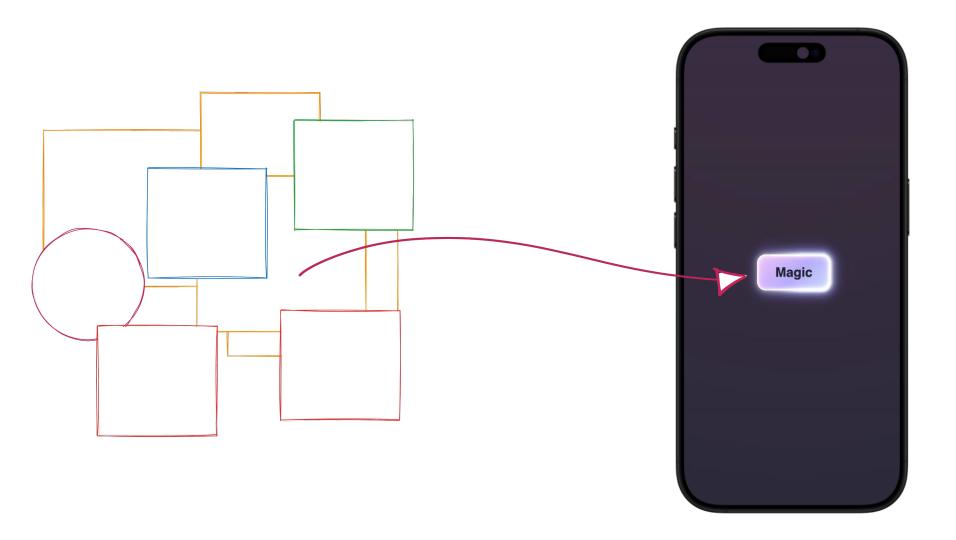






Philosophy 🧘 The Complexity Be better-er 😔





Primitive overload



Primitive overload



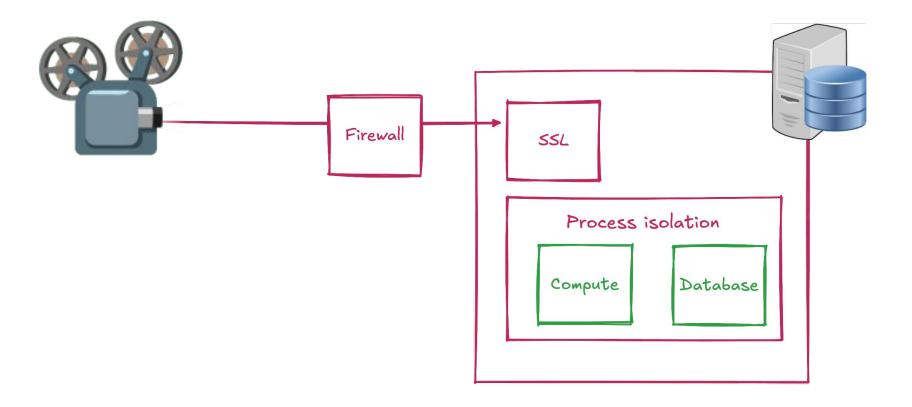


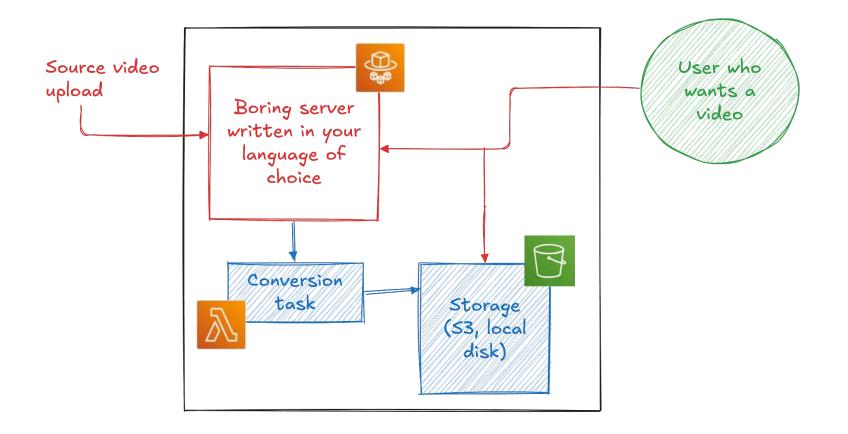


The alternative?









Pattern rundown

S Don't: Build the MVP of being online

- If you find yourself...
 - Getting an IP address
 - Issuing SSL certs
 - Reverse proxying from front-ends to your HTTP server
 - Worrying about DDOS attacks
- Maybe find a provider that handles this for you
- You should be able to host boring HTTP and have it show up

Do: Serve HTTP requests

- Your language of choice has a way to serve HTTP
 - HTTP has 'won'; don't talk some weird protocol!
- If long-lived connections are hard you're not serving HTTP
 - e.g., WebSocket

Do: Get things talking to each other

- Cloud configs give you the ability to "wire" things together
 - But at the cost of complexity
- What is your actual goal?
 - Get services conceptually on the same LAN, same machine, ... etc
 - Same as the MVP—avoid the overheads of using things
- Alternative: Tailscale
 - "The New Internet"
 - Just puts devices on a local LAN trivial/zero-cost VPC

Do: Prevent unauthorized access

- Corollary: allow authorized access with the right permissions
 - Includes user access, service access, ...
- Alternative: uhhhh You do need OAuth/JWTs, I'm sorry
 - Maybe don't roll your own

S Don't: Build complex solutions for scale

- Serverless is often touted as a way to 'scale infinitely'
 - Your bills?
- "Good problem to have"
- Solve it low-tech
 - Horizontal sharding your MVP of being online can handle this
 - Read-only replicas, too busy notices
 - "1000 people in the queue"

🤔 Aside: Unknowns

- I want to stop bad actors / unknown exploits / etc
 - Unknown unknowns of your system
- What can help you prevent things you don't know about? 🤔
 - Less is more





Home About Archive Twitter



Hello there. I'm Sam, and I write about the web. I'm available for consulting. See some open-source packages I've built.

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March 2023

January 2021

It's dangerous to go alone! Take this

Permission slip <u>Sam's permission to</u> think outside the box samthor