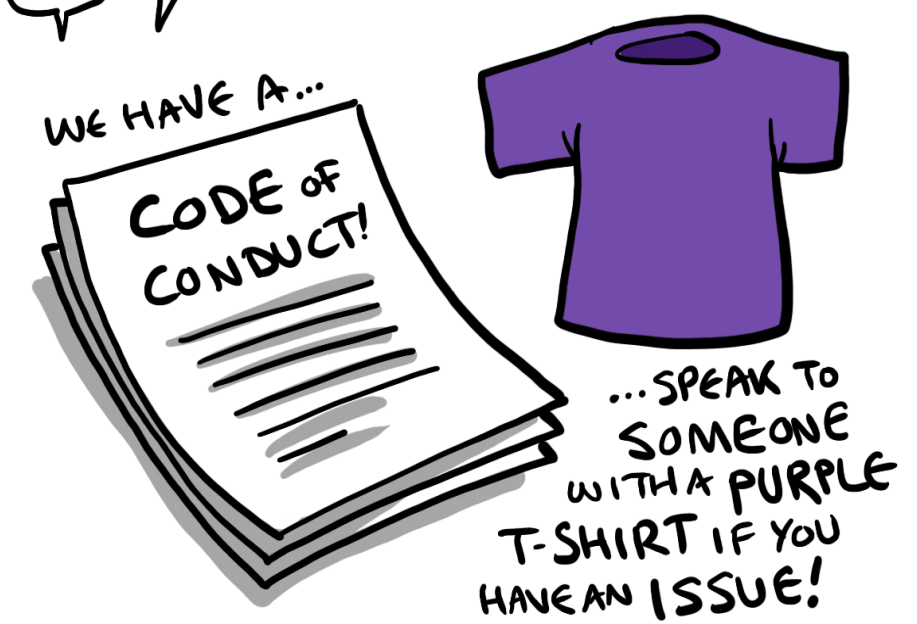
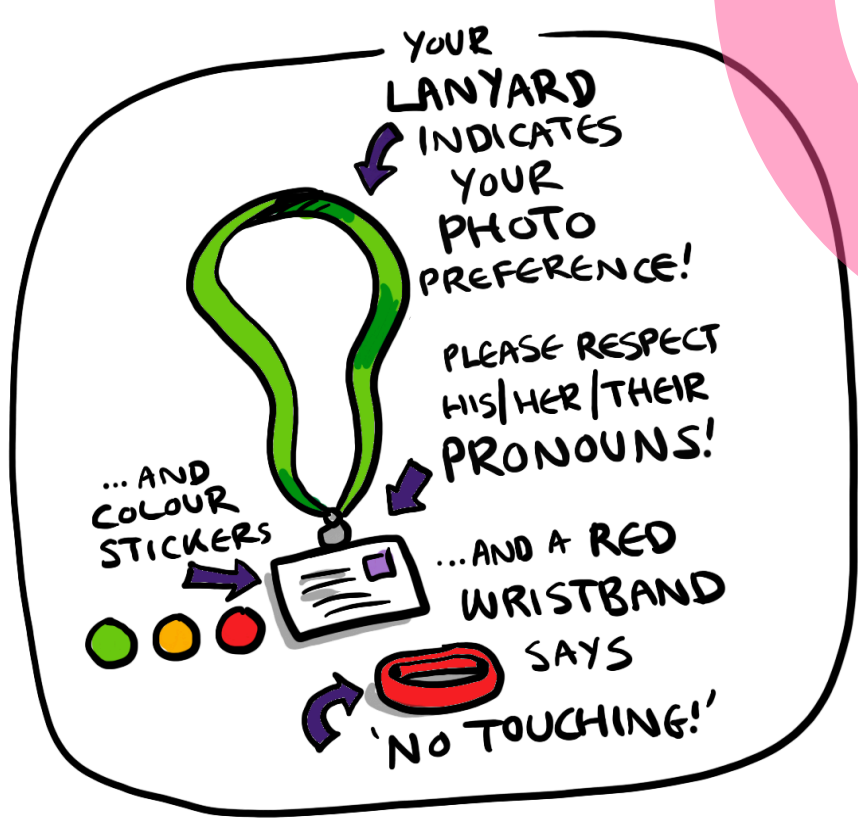


# DevOpsDays London 2022



Jonas Linde <[jonas.linde@b3.se](mailto:jonas.linde@b3.se)>



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# BLAME, SHAME & PANIC - WHAT NOT TO DO WHEN THINGS GO WRONG

JEMMA B



A WORLD OF DOOM & DEV OOPS!

THINGS ARE GOING TO GO WRONG!



A PERSON WHO NEVER MADE A MISTAKE NEVER MADE ANYTHING NEW!



I MANAGED TO PULL A WHOLE TV CHANNEL OFF-AIR...



YOUR BRAIN CAN'T TELL THE DIFFERENCE BETWEEN A MISHAP & A TIGER!



HOW TO DEAL WITH IT..?



ALBERT EINSTEIN

STOP! ...AND HAVE A CUPPA



THIS IS A LOVE LETTER TO BLAMELESS CULTURE!

SOME OF THE BIGGEST PROBLEMS COME FROM COVERING UP SMALL PROBLEMS!

TAKE A MOMENT & BREATHE!

BE CURIOUS ABOUT YOUR REACTION!

CHOOSE YOUR WORDS CAREFULLY!

TAKE EVERYONE WITH YOU!

LEAVE EVERYTHING NOT IMMEDIATELY IMPORTANT FOR LATER!



BY NOT FIXATING ON WHO IS TO BLAME WE CAN CLEAR THE WAY TO FIX THE PROBLEM!

ACCOUNTABILITY

...CAN BE ANOTHER WORD FOR BLAME!

BE EXCELLENT TO EACH OTHER!



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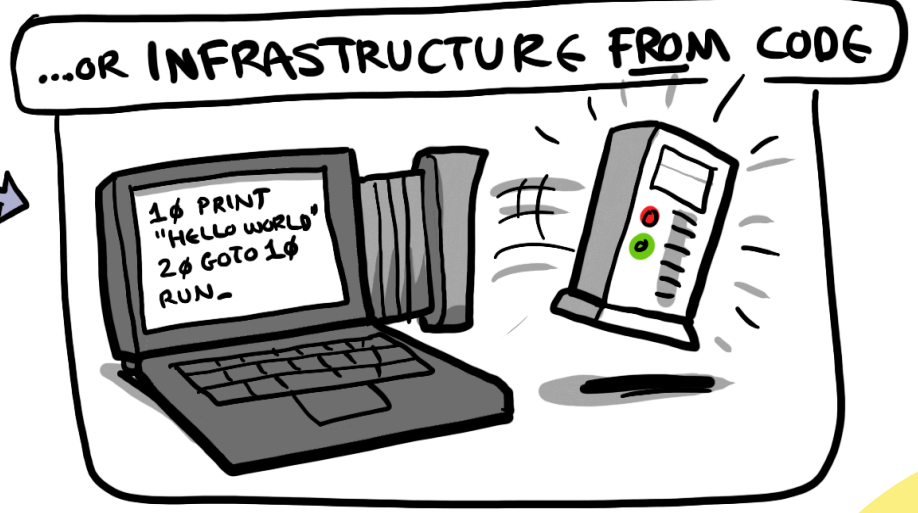
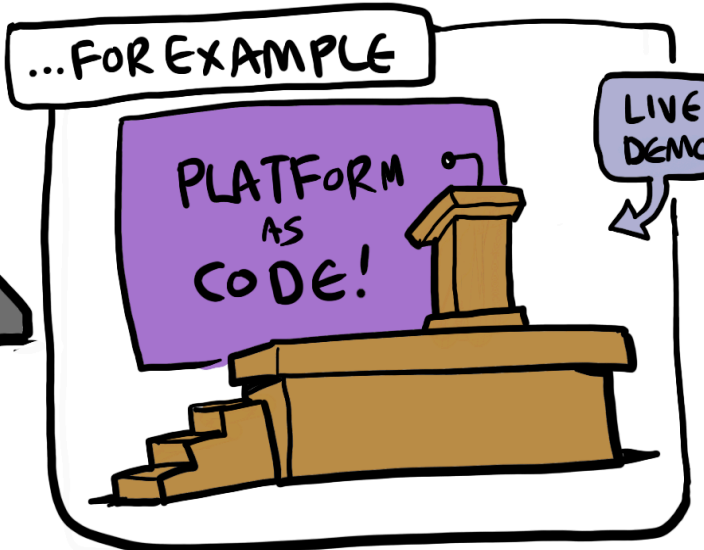
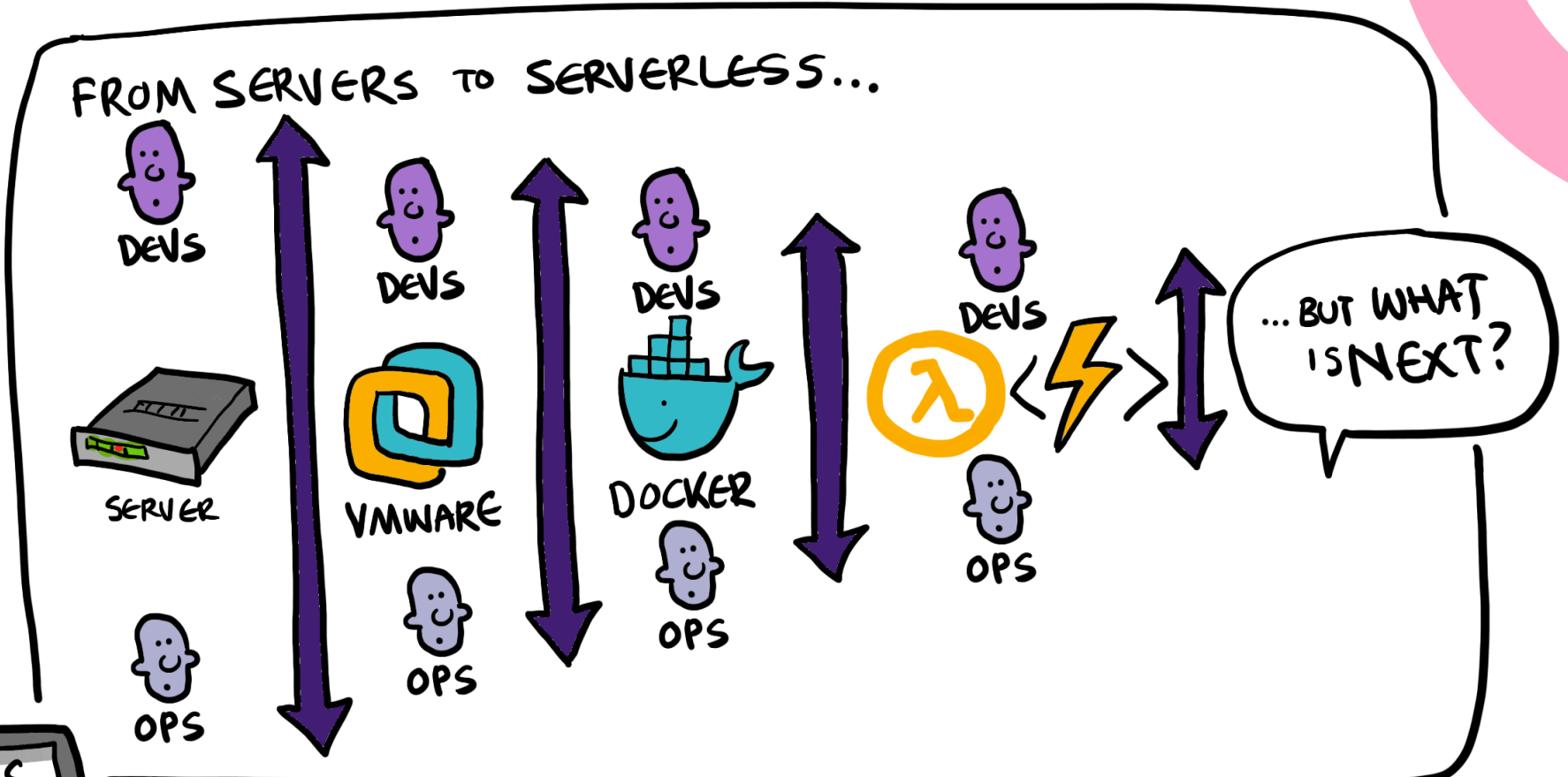
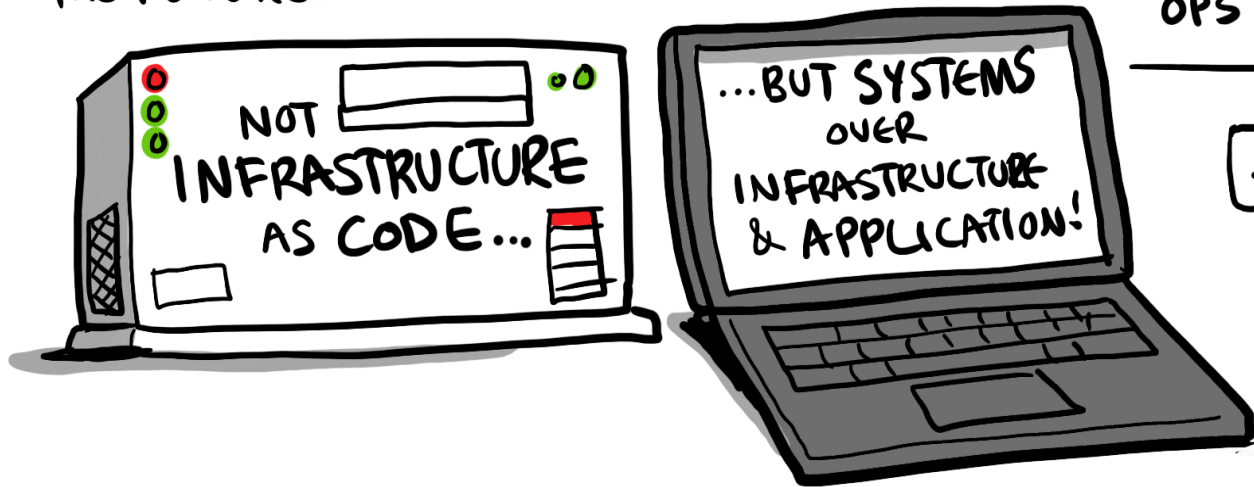


# DEVELOPMENT PRODUCTIVITY IN A POST-SERVERLESS WORLD

DOMENICO



THE FUTURE...



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# THE CURIOUS CASE OF THE DEVOPS ENGINEER AND 10 THINGS WE'VE GOTTEN WRONG ABOUT DEVOPS!

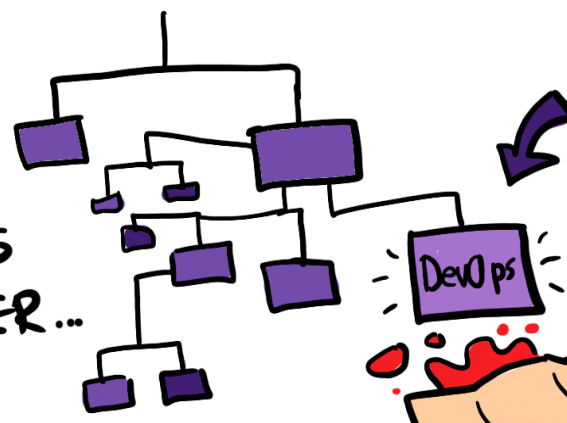
DIVYA M



RIGHTWAY OR WRONGWAY?



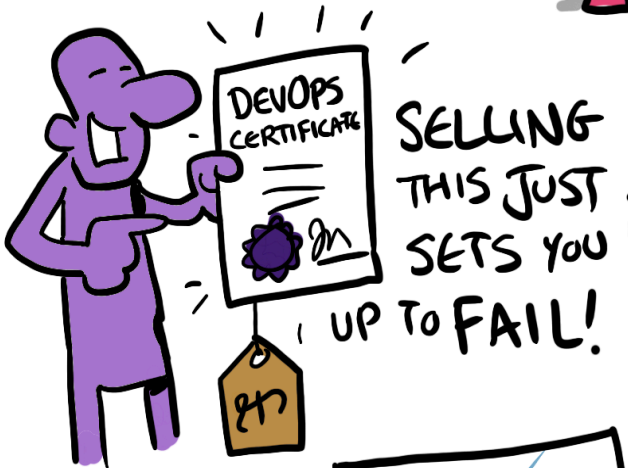
THE DEVOPS ENGINEER...  
...DO THEY EXIST?



LET'S CREATE A NEW DEPARTMENT...

...IS LIKE FIXING BULLETHOLES WITH BANDAIDS!

THE DEVOPS ROADMAP...



SELLING THIS JUST SETS YOU UP TO FAIL!

YOU NEED A CULTURE OF COLLABORATION...



...OTHERWISE YOU'RE JUST FIREFIGHTING!



...HOW DO WE FIX THIS?

...GO BACK TO BASICS!



CULTURE  
AUTOMISATION  
LEAN IT  
MEASUREMENT  
SHARING

MOVE TOO FAST...  
...AND YOU BREAK THINGS

SECURITY...

...IS OFTEN AN AFTER THOUGHT!



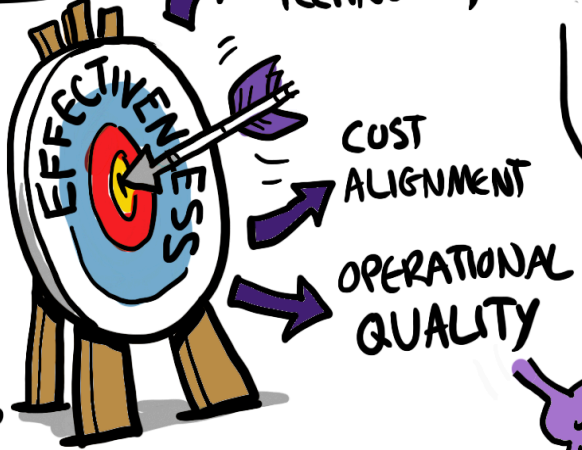
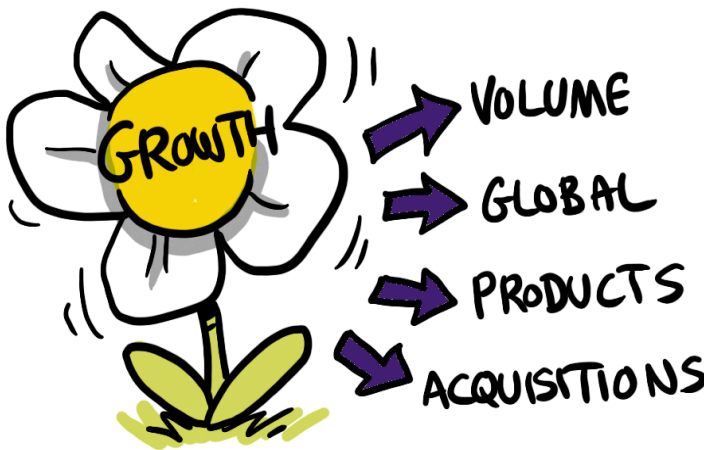
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# SCALING INFRASTRUCTURE AS CODE

HOW DOES INFRASTRUCTURE SUPPORT ORGANISATIONAL STRATEGY?

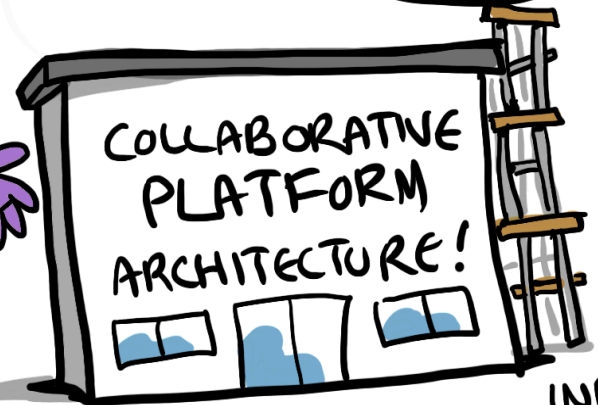


CHALLENGES WE HAVE WITH SCALING INFRASTRUCTURE?

LOW VALUE WORK!

INCONSISTENCY  
CODE SPRAWL!  
HARD TO CHANGE!  
DISEMPOWERING TEAMS!

KIEF Mc  
THE CLOUD IS OUR PLATFORM!



INCONSISTENCY!  
SLOW, RISKY CHANGES!  
LACK OF VISIBILITY!

THE PAVED ROAD FOR OUR DEVELOPERS.



INFRASTRUCTURE SCAFFOLDING!

AS A STACK GROWS, THE SURFACE AREA GROWS!

COMPOSABLE  
UNIX PHILOSOPHY  
PREDICTABLE  
DIOMATIC  
DOMAIN-BASED

TWANG!

MODULES DON'T REDUCE THE SURFACE AREA!

AVOID \* SNOWFLAKES AS CODE! \*



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# IGNITES: HOW TO GET NOTHING DONE

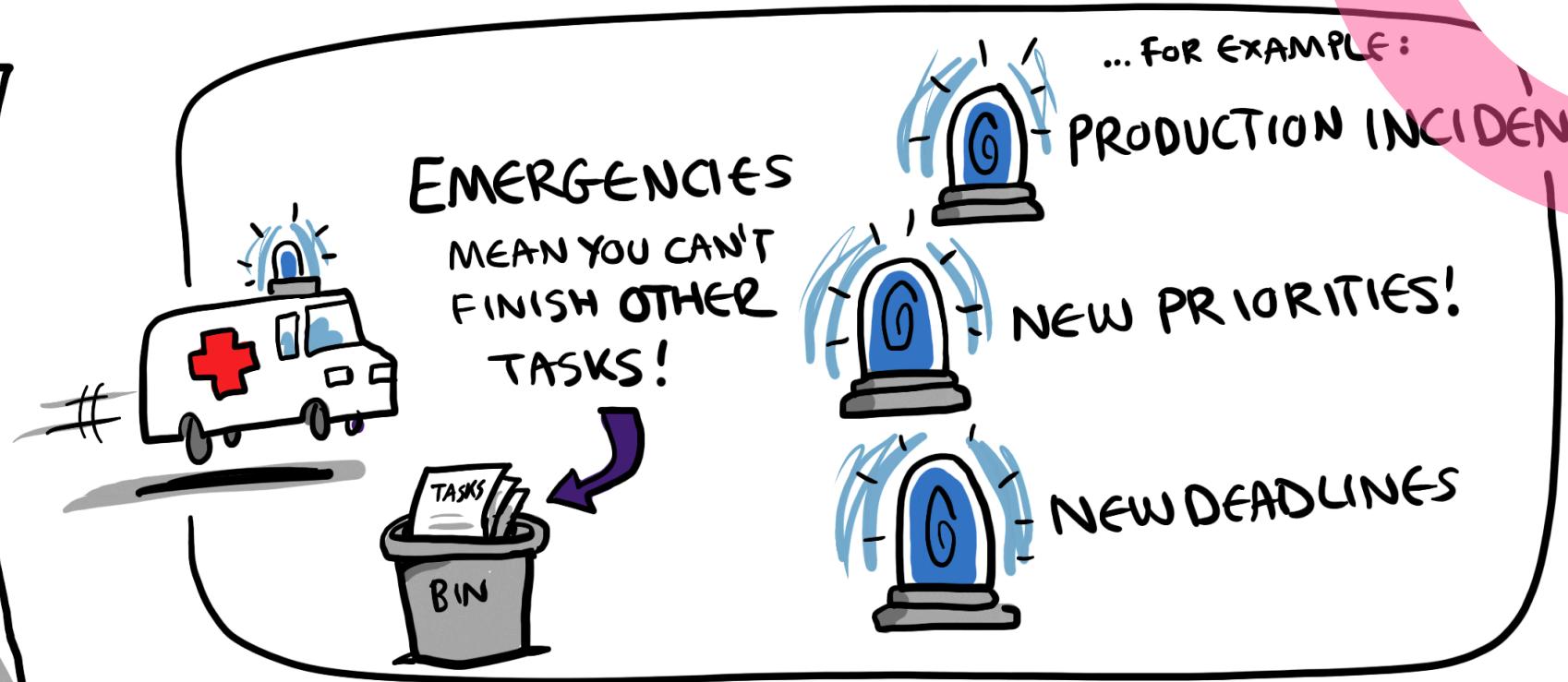
BEN MA

1. ALWAYS BE WORKING!



To Do:

- PICK TASKS IN A RUSH!
- KEEP STARTING NEW TASKS...  
... YOU'LL NEVER FINISH THEM!
- MULTITASKING!
- CONTEXT SWITCHING!
- DELAY FINISHING!



ACTIVELY VOLUNTEER FOR MORE TASKS!



... BE MORE THAN 100% BUSY!

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AVOID COLLABORATION AT ALL COSTS!



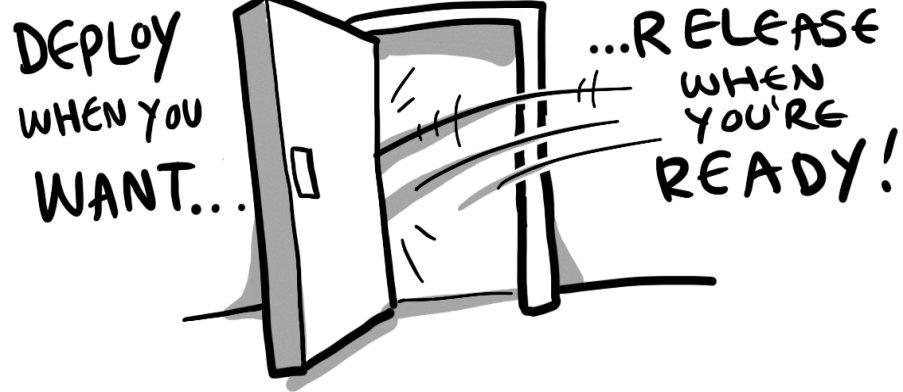
WORK ALONE FOR AS LONG AS POSSIBLE!

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# IGNITES: 5 LIFE HACKS USING FEATURE MANAGEMENT

SARA M.



**LIFE HACK 1**

INCREASED HAPPINESS & PRODUCTIVITY!

**LIFE HACK 2**

DECREASED STRESS!

**LIFE HACK 3**

VALIDATION!

**LIFE HACK 4**

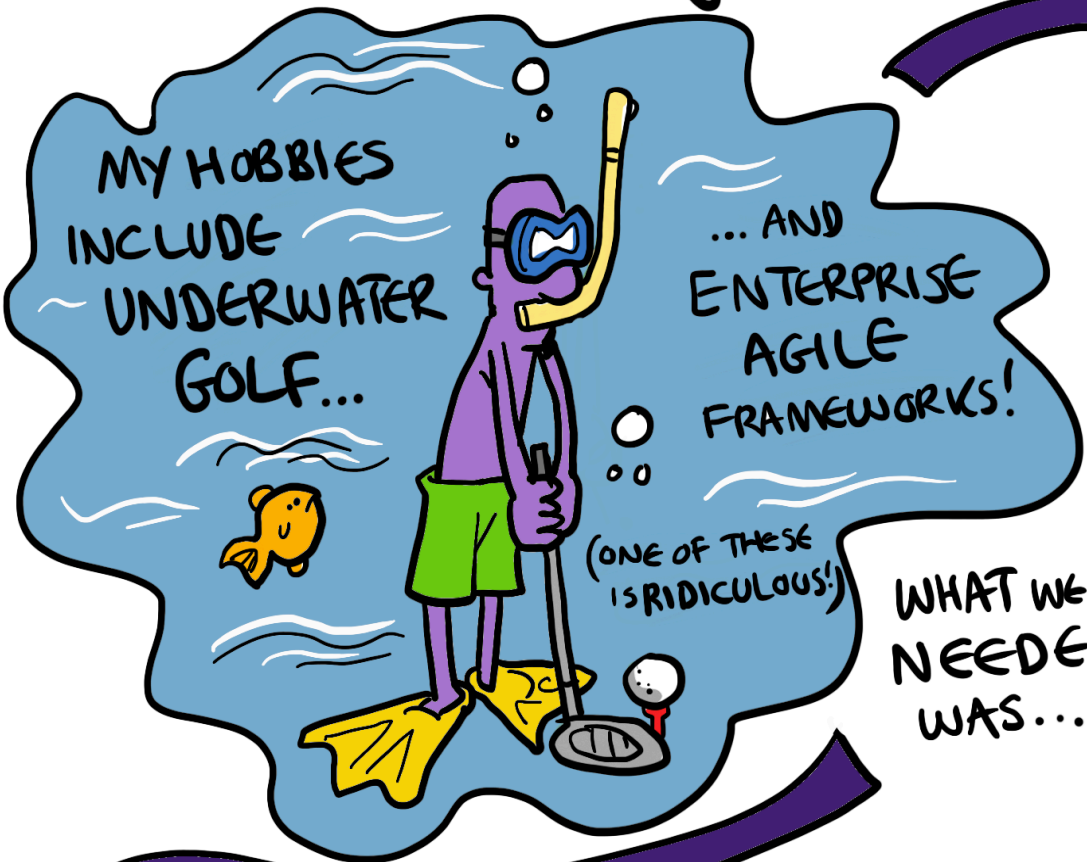
CONFIDENCE WITH DATA-DRIVEN DECISIONS!

**LIFE HACKS**

IMPROVED ANXIETY AND SLEEP!

# IGNITES: A CI/CD JOURNEY


MY HOBBIES INCLUDE UNDERWATER GOLF...  
... AND ENTERPRISE AGILE FRAMEWORKS!  
(ONE OF THESE IS RIDICULOUS!)




OUR LEAD DEVELOPER LEFT TO PERSUE ARTISAN CHEESES...!



... SO WE HAD TO SUMMON THE ENTERPRISE AGILE CONSULTANTS!  
... WHO SUGGESTED WE ADOPT A BRANCHING MODEL...  
CHERRY PICKING CHANGES!




WHAT WE NEEDED WAS...  
ENTERPRISE AGILE TRANSFORMATION!



EVERYTHING HAD TO BE COMPLIANT AND ACCOUNTABLE



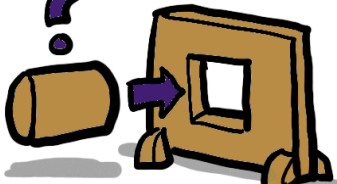
WE REORGANISED AS SQUADS & TEAMS & TRIBES & ...



... WE WERE TOO BUSY TRANSFORMING AT THE SPEED OF THOUGHT FOR AUTOMATED TESTING!

ONE DAY, OUR GUILDMASTER CAME BACK TALKING ABOUT KUBERNETES!

THIS WAS ALL TOO MUCH FOR THE DEVOPS GUILD...  
... SO WE WENT BACK TO THEM!



... AND THIS WAS JUST THE BEGINNING OF OUR JOURNEY INTO...

CONTINUOUS IRRITATION /  
CONTINUOUS DISSAPOINTMENT!

... SO THIS HAD TO BE INTEGRATED INTO OUR EXISTING SYSTEMS...



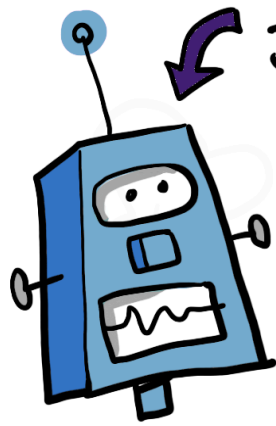
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# IGNITES: 'CUSTOMER-DRIVEN' PLATFORM TEAMS

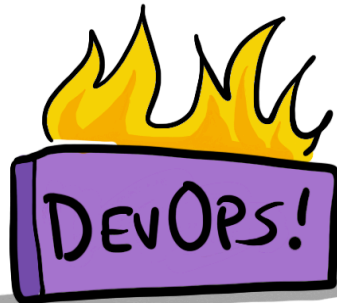
ELORA WA



JAMIE IS A SOFTWARE ENGINEER...



ONE DAY HIS COMPANY WANTED TO USE THE HOT NEW THING...



SO, HE HAD TO LEARN KUBERNETES!

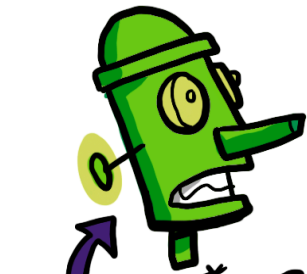


... BUT JAMIE DIDN'T HAVE THE RIGHT PERMISSIONS!



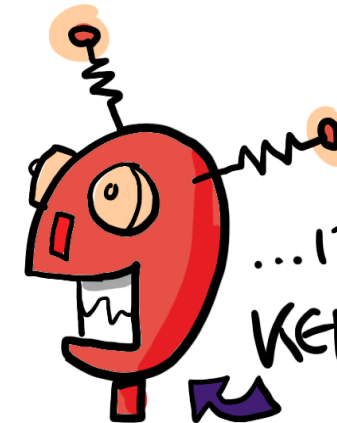
... BUT THIS STORY ISN'T ABOUT JAMIE...

KENNEDY USED USER PERSONAS...



TAYLOR

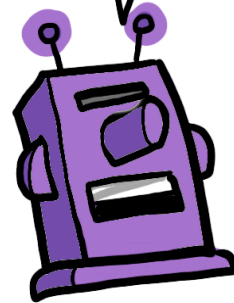
\*A FICTIONAL PERSONA BASED ON REAL-LIFE USER EXPERIENCE!



... IT'S ABOUT KENNEDY!

... THEY ANSWER THREE QUESTIONS...

- WHO ARE THEY?
- WHAT IS THEIR GOAL?
- WHAT ARE THEIR BARRIERS?



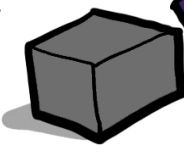
MORGAN

GET FEEDBACK FROM YOUR USERS!



... AND SHARE YOUR PERSONAS WITH YOUR ORGANISATION!

GETTING STARTED WAS HARD...



... OUR INHOUSE TOOLS WERE BLACK BOXES!

WE NOW TALK ABOUT EACH PIECE OF WORK...

... AS TO HOW IT IMPACTS OUR USERS!

... AND MAKE THEM MEMORABLE..



SAM

... OURS ARE ROBOTS!



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# IGNITES: WHO'S LOOKING OUT FOR US?! A CAUTIONARY TALE OF BURNOUT AND RECOVERY



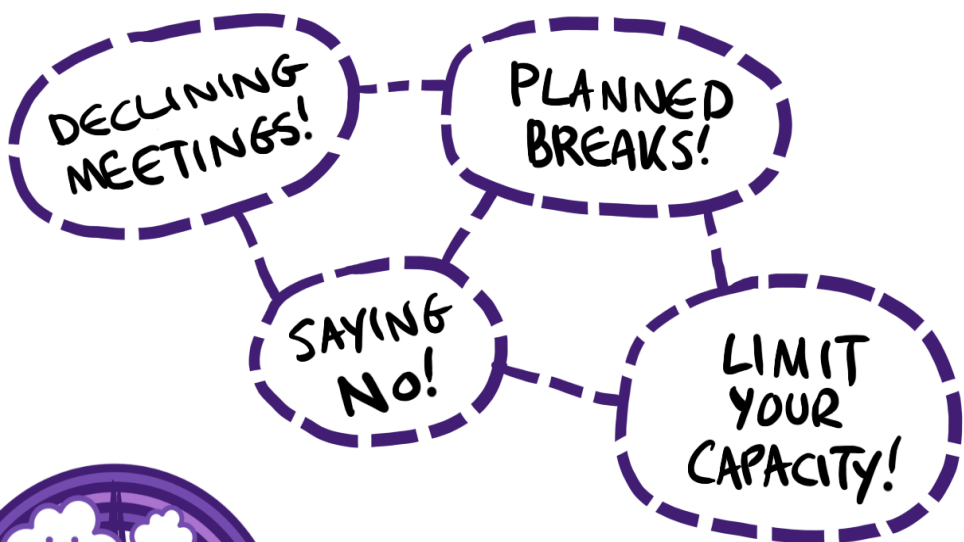
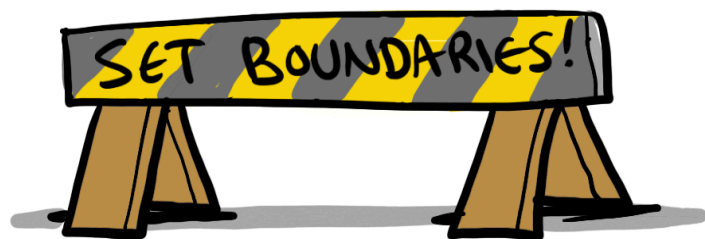
...I DID, IN



...AND AGAIN IN



MARINO I  
NOT A MENTAL HEALTH PROFESSIONAL!



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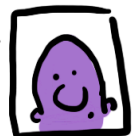
# THE JOURNEY FROM DEVOPS TO CLOUD ENGINEERING

MATTY ST

LET'S START BY LOOKING BACK...



First use of the word #DevOps on Twitter...



"DevOps... IS THE UNION OF PEOPLE, PROCESS & PRODUCTS!"

DONOVAN BROWN

WHAT IS DEVOPS?

"AN ENGINEERING CULTURE OF COLLABORATION, OWNERSHIP & LEARNING [...]"

EMILY FREEMAN

"OPTIMIZING THE HUMAN EXPERIENCE & PERFORMANCE OF OPERATING SOFTWARE WITH SOFTWARE & HUMANS!"

ANDREW CLAY SHAFER

THE SAME WAY... EVERY TIME!

DEPLOY



AUTOMATED!

INFRASTRUCTURE IS PART OF THE APP!

COMPUTERS ARE JERKS!



SCREW YOU, BUDDY!

LET'S TAKE DEVOPS BACK!

COMMON 'VOCABULARY'

VISIBILITY!

MANAGE

SECURITY IS EVERYONE'S JOB!

CONTROLS & PROCESS THAT ENABLE & ENHANCE

DEVOPS IS NOT JUST ABOUT THIS!

"YOU CAN'T BUY DEVOPS, BUT I CAN DEFINITELY SELL IT TO YOU!"

MATTY STRATTON

...NOW WE HAVE CLOUD ENGINEERING!

THIS IS WHAT WE'VE BEEN DOING IN DEVOPS!



REUSABLE INFRASTRUCTURE COMPONENTS!



SHARED SERVICES PLATFORM!

BUILD

APPLY EXISTING FRAMEWORKS & TOOLS!

C  
A  
L  
M  
S  
CULTURE  
AUTOMATION  
LEAN  
MEASUREMENT  
SHARING

...OR CLAMS!



...OR SMALC?!?

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# SOS: SUSTAINABLE OPEN SOURCE

FLOOR DR



WHAT ARE OPEN SOURCE'S ISSUES..?

RELICENSING

... AN INCREASE IN 'KINDA' OPEN SOURCE LICENSES..  
THE COMMONS CLAUSE  
MONGO  
ELASTIC 2.0  
REDIS  
GREYLOG  
TSL  
COCKROACH

THE OPEN SOURCE DEFINITION  
9. LICENSE MUST NOT RESTRICT OTHER SOFTWARE!

PROJECT MAINTAINED BY AN INDIVIDUAL IN NEBRASKA!

LIGHT BEND  
CHANGED ITS LICENSE...  
... BUT JUST PISSES OFF IT'S COMMUNITY!

LICENSE AUDIT  
TRACKING UP TO 78 LICENSES...  
...THERE ARE OVER 300!  
(BUT MOST PACKAGES USE NO MORE THAN 20!)

WHEN LEFT-PAD WAS REMOVED...  
A LOT OF STUFF BROKE!

R.I.P  
WHEN THE DEVELOPER OF CHEF DIES... SO DOES HIS REPOSITORY!

WHO'S LOOKING AT THE HEALTH OF YOUR PROJECT?



SUPPLY CHAIN SECURITY!

PRINCIPLES OF AUDIENCE PARTICIPATION

CRITICALITY SCORE  
$$C_{project} = \frac{1}{\sum_i \alpha_i} \sum_i \alpha_i \frac{\log(1+S_i)}{\log(1+\max(S_i, T_i))}$$

TWANG!  
ELASTIC'S CHANGE...  
...SENT SHOCK WAVES THROUGH THE INDUSTRY



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# PAID TO SLEEP: MAKING ON-CALL WORK FOR YOU

OLIVER LEAV



THIS IS NOT A PYRAMID SCHEME!

UNINTERRUPTED SLEEP CAN SHOW SIGNS OF BRAIN DAMAGE!

...THIS AFFECTS YOUR HIGHER LEVEL COGNITION & PREFRONTAL CORTEX!



YOU CAN'T SWITCH OFF WHEN YOU'RE ON CALL!



... LIKE AT A CHILD'S BIRTHDAY PARTY!

YOU SHOULD BE BEING PAID FOR BEING ON CALL!

THREE SIMPLE THINGS...

- RELIABLE SYSTEMS!
- SANE ALERTING & MONITORING!
- LUCK!

YOU NEED THE RIGHT RESOURCES...

DOCUMENTATION  
DOES IT PASS THE 3AM TEST?



ALERTING & MONITORING

LET THE RIGHT PEOPLE KNOW!

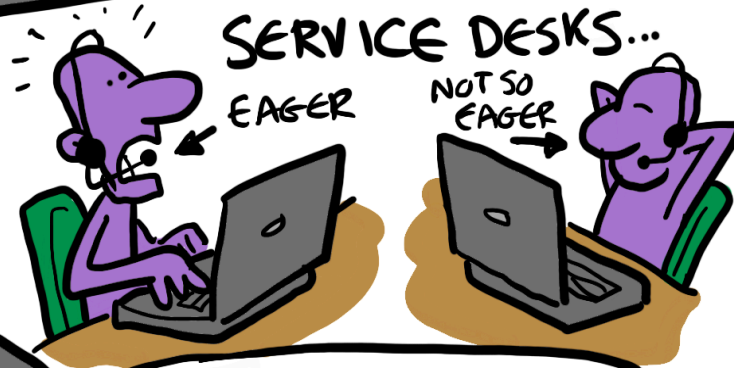
ONLY ALERT ON WHAT YOU NEED TO ALERT!

... WHEN YOU NEED TO

ANECDOTE... RUNNING:



... TOOK DAYS TO FIX!



CONTROL WHAT YOU CAN, EMBRACE WHAT YOU CAN'T!



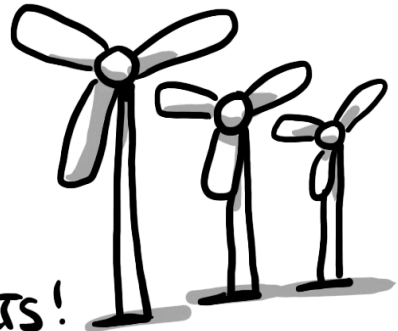
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# THE NEXT LEVEL PIPELINES DELIVERING NET ZERO

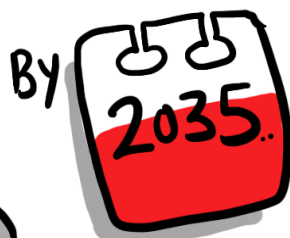
BILLIE TH  
CLAIRE PUT



RES WORKS  
ON RENEWABLE  
ENERGY PROJECTS!

6 YEAR, 10 MONTHS, 17 DAYS,  
4 HOURS, 22 MINUTES, 50 SECONDS

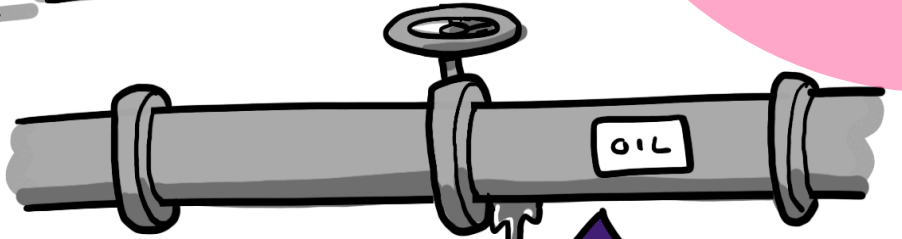
...HOW LONG WE HAVE TO  
A 1.5° INCREASE  
IN GLOBAL TEMPERATURE!



By 2035... 50% OF THE  
POWER WILL COME  
FROM RENEWABLES...

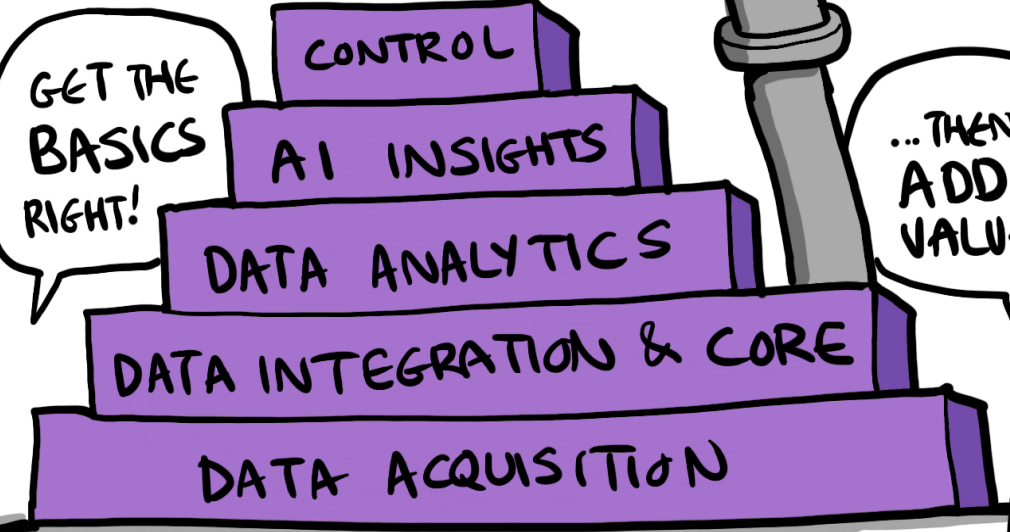
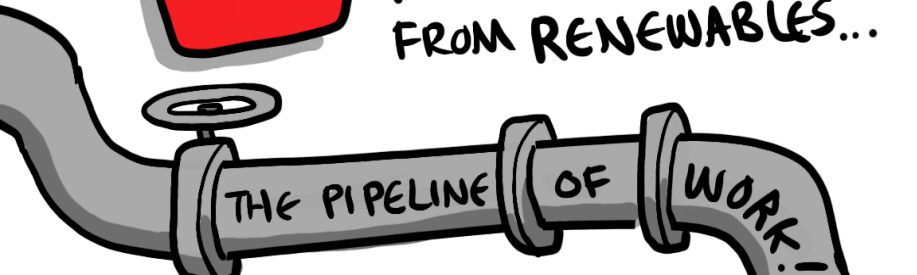
THIS WILL MEAN...  
• MORE ASSETS  
TO MANAGE!  
• PRESSURE TO DRIVE  
DOWN COSTS!  
• INNOVATION!

...BY...  
• INCREASING  
EFFICIENCY!  
• NEW SOLUTIONS!  
• INVESTING IN  
PEOPLE!



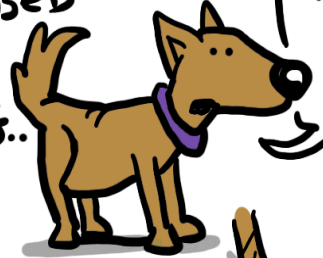
WE'RE WORKING  
ON PIPELINES...

... BUT NOT  
THIS KIND,  
THE DATA  
KIND!



ALIGN YOUR  
TEAMS  
FOR FLOW!

WE USED  
A  
DAG..



..NOT A DOG  
IN A FUNNY  
ACCENT!

LESS OF..

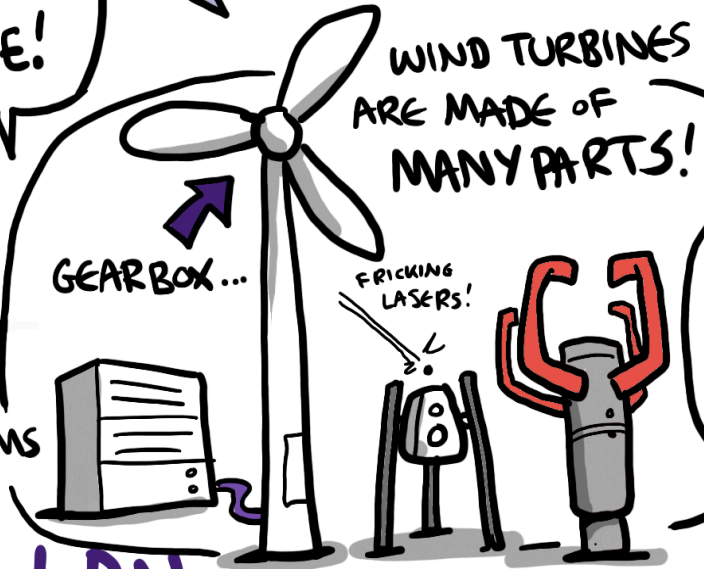
STOP DOING..



START DOING..

KEEP  
DOING..

MORE OF..



WIND TURBINES  
ARE MADE OF  
MANY PARTS!

...SYSTEMS

...AND MONITORS!



THE GORDIAN  
KNOT...

...SIDESTEP  
THE PROBLEM!



THE PRIZE:  
A FUTURE  
WHERE EVERYONE  
HAS ACCESS  
TO ZERO-CARBON  
ENERGY!



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# IGNITES: WHAT DRAGONBALL CAN TELL US ABOUT BEING ENGINEERS

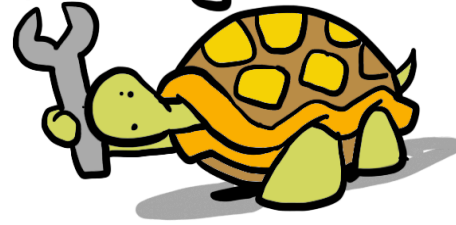
MARCUS

DRAGONBALL IS ABOUT GOKU

...AN EARLY ADOPTER OF THE CLOUD!



...USE THE RIGHT TOOL (OR TURTLE) FOR THE JOB!



...CONTAINERISATION IS COMMON!



...READY TO LATER UNLEASH IN A PUFF OF SMOKE!

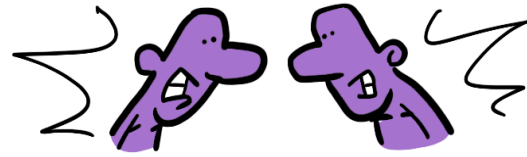
...EPHEMERAL RESOURCES ARE A KEY STRATEGY!



...THE IMPORTANCE OF TRAINING!



...WORK TOGETHER...

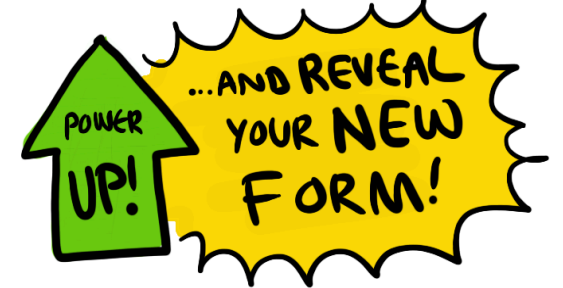


... & HAVE SOMEONE TO CHALLENGE YOU!

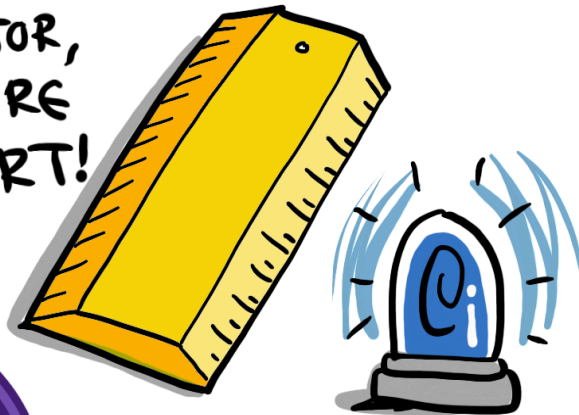
HAVING A DIVERSE TEAM AROUND YOU MEANS YOU CAN USE THEIR VARIOUS SKILLS!



...PERFECTION ISN'T NEEDED FROM DAY 1!



... MONITOR, MEASURE & ALERT!



...DON'T BE AFRAID OF FAILURE...



...AND DON'T LET IMPOSTER SYNDROME HOLD YOU BACK!

...EAT WELL...



...SLEEP WELL...

& STAY HYDRATED!



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# IGNITES: A 5 MINUTE INTRODUCTION TO HELM CHARTS

TEMI OLU

WHAT IS HELM?

HELM MAKES DEPLOYMENT EASIER!

HELM USES A FORMAT CALLED CHARTS!

RELEASE

REPOSITORY

ARTIFACTHUB.IO

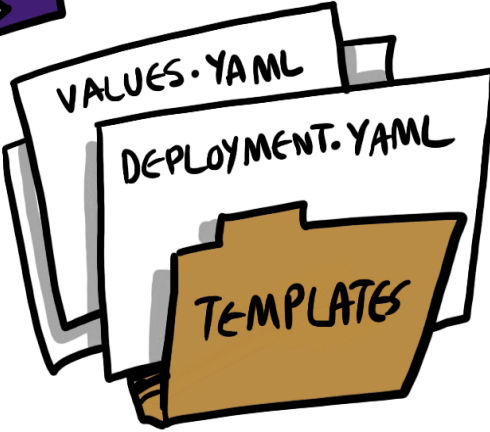
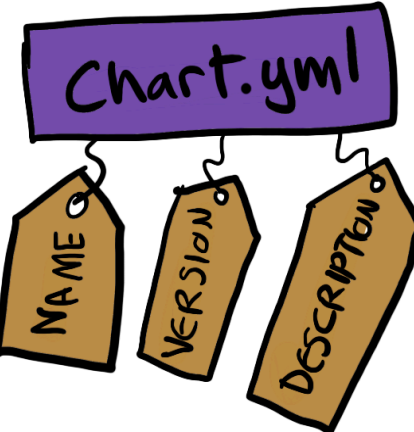
## HELM CHART STRUCTURE

```
✓ myChart  
  > charts  
  ✓ templates  
  ! deployment.yaml  
  ! Chart.yaml  
  ! values.yaml
```

HELM CHARTS ARE KUBERNETES YAML MANIFESTS IN A SINGLE PACKAGE!

FOLLOWING A DIRECTORY STRUCTURE

## BREAKING DOWN A HELM CHART



THANKS FOR LISTENING!



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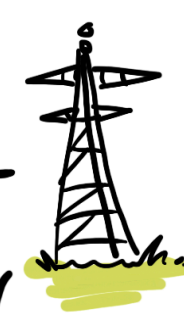


# IGNITES: DECENTRALISING ELECTRICITY - SOLVING THE ENERGY CRISIS WITH... BLOCKCHAIN?

JENNIFER

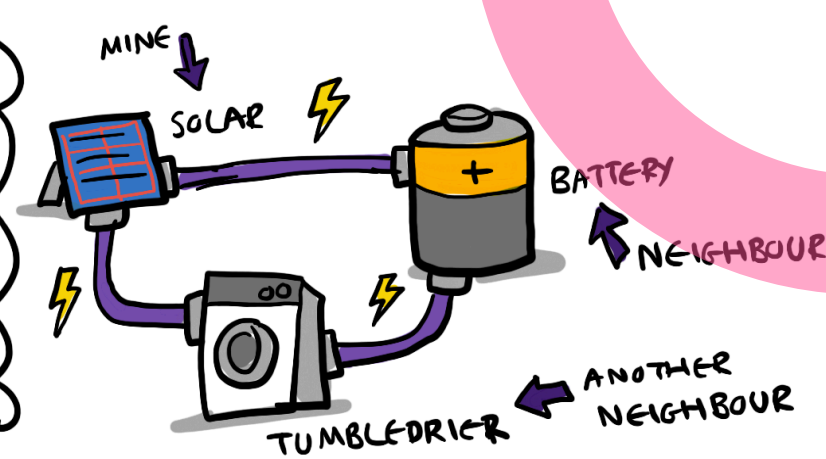
PEOPLE ADD  
BLOCKCHAIN  
AS A SOLUTION  
FOR EVERYTHING...

...THE UK BUILT  
THE NATIONAL  
GRID FOR  
ELECTRICITY  
IN THE 1920s...

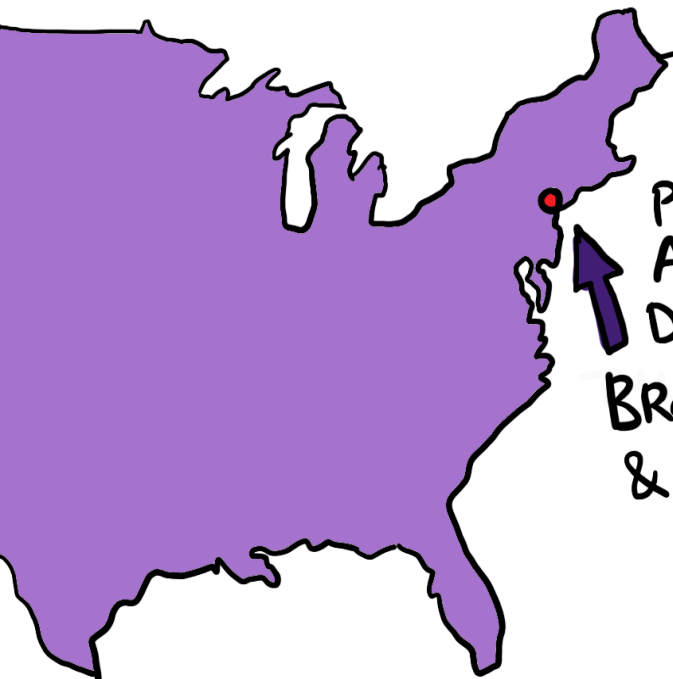


...BUT IT'S  
NOW NOT  
JUST  
ONE WAY!

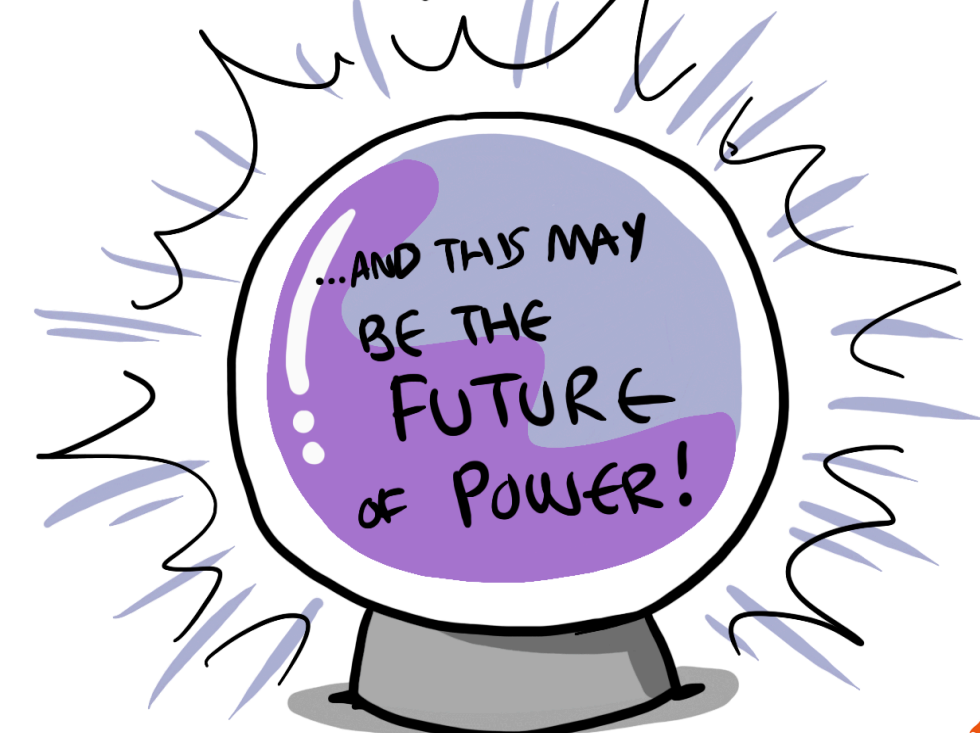
I THOUGHT...  
..WE COULD  
CREATE  
A LOCAL  
MICRO-  
GRID!



... AND WE COULD USE  
BLOCK-CHAIN FOR THIS!



PEOPLE ARE  
ALREADY  
DOING THIS IN  
BROOKLYN AND  
& AUSTRALIA...



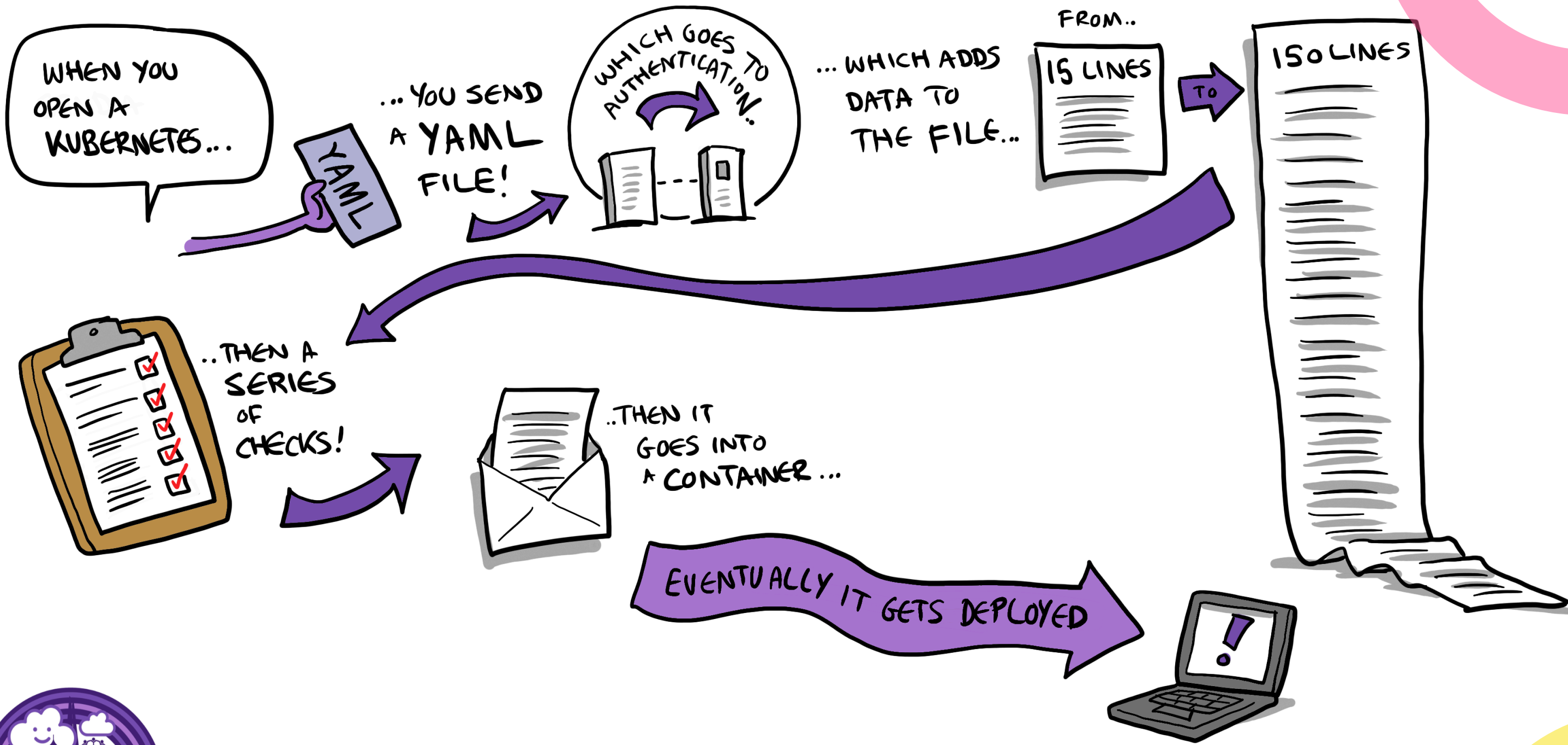
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# IGNITES: KUBERNETES API EXPLAINED

SALMAN



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# Over and out



206

Partial Content