Don't Forget the Humans

Ana Margarita Medina

@ana_m_medina Lightstep

Julie Gunderson

to

@Julie_Gund AWS

Introductions



Ana Margarita Medina Lightstep @Ana_M_Medina

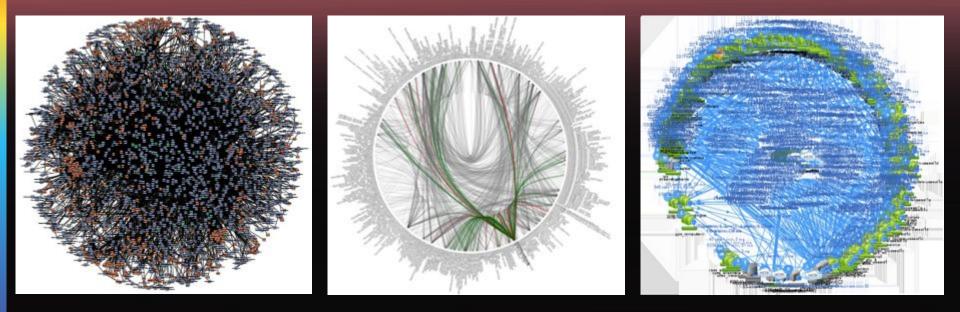


Julie Gunderson AWS @julie_gund

An increase in the push for reliability

Reliability: The ability of a workload to perform its intended function **correctly** and **consistently** when it's expected to.

Systems are Complex



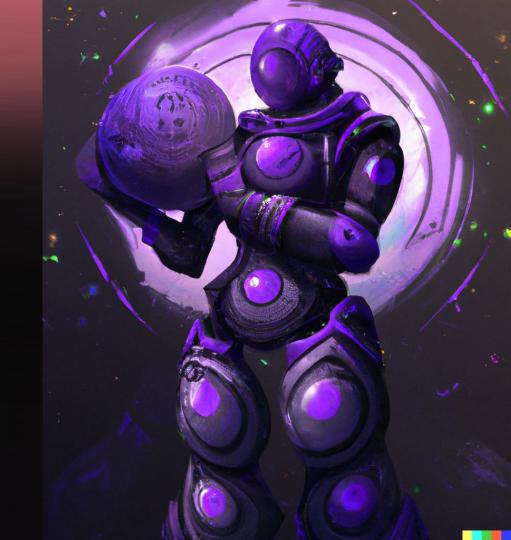
Amazon

Twitter



Reliability...

- Safety
- Economic Impact
- Quality of Life
- Security
- Environmental Impact
- Reputation



Principles of System Reliability

• Automatically recover from failure

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- Test recovery procedures

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- Scale horizontally

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- Stop guessing at capacity

- Automatically recover from failure
- Test recovery procedures
- Scale horizontally
- Stop guessing at capacity
- Manage change through automation

Humans have **built-in** systems

Human Systems are Complex

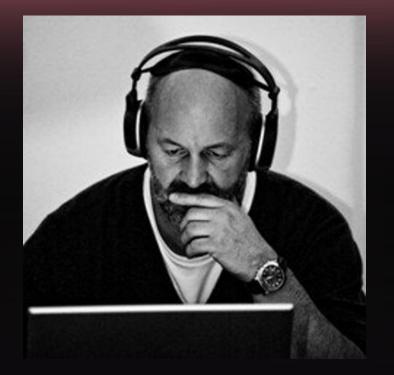
- Circulatory
- Respiratory
- Muscular
- Digestive
- Nervous
- Many Others...



aws

"Failures are a given and everything will eventually fail over time."

- Werner Vogels CTO, Amazon.com



Incident Response in Technical Systems

Incident response is an organized approach to addressing and managing an incident

Incident Response in Technical Systems

- Prepare
- Detect
- Assess
- Respond
- Resolve
- Recover
- Learn





Incident Response in Humans

• Life Happens!

- Develop a personal incident plan
- Monitor the signals
- Determine the severity
- Mobilize the right people
- Take the necessary steps to respond
- Focus on recovery
- Reflect

The goal of Incident Response is to handle the situation in a way that limits damage and reduces recovery time and costs.

Burnout In Tech

burnout



Burnout In Tech

What is burnout?: The "state of mental and physical exhaustion caused by one's professional life"

- Freudenberger

Burnout In Tech

Burnout is not depression, but it can lead you there.

2 in 5 tech workers show a high risk of burnout excessive stress, exhaustion and a broken work-life balance.



Burnout Warning Signs:

- Exhaustion
- Loss Of
 Concentration
- Lack Of Motivation
- Alienation

- Frustration
- Physical Symptoms
- Substance Abuse
- Self Esteem

Observability in Technical Systems

Observability is the practice of understanding our systems. This leverages high quality telemetry data, tools, techniques and allows us to start new processes/practices to act upon these insights.

Observability in Humans

Our body has senses to observe the world around us, but this data is not stored and analyzed for us and it's biased due to our perception, or lack of personal insight.



Observability in Humans

- Increase your Insight
 - Wearables
 - Habits
 - Journal
 - Planning Ahead



Capacity Planning in Technical Systems

- Do you have enough infrastructure provisioned?
- Do you have enough staff on-call?
- Have you done load testing and/or chaos engineering?

Capacity Planning in Humans

Humans also have **maximum capacity**. This can be physical, emotional, financial, awareness and educational.

Blameless Culture in Technical Systems

The goal of the postmortem is to understand the systemic factors leading to the incident and identify actions that can improve the resiliency of the affected system

Blameless Culture in Humans

- Humans are Humans
- Humans will fail, it's unavoidable
- <u>Practice</u> kindness
 blamelessness to yourself and others around you

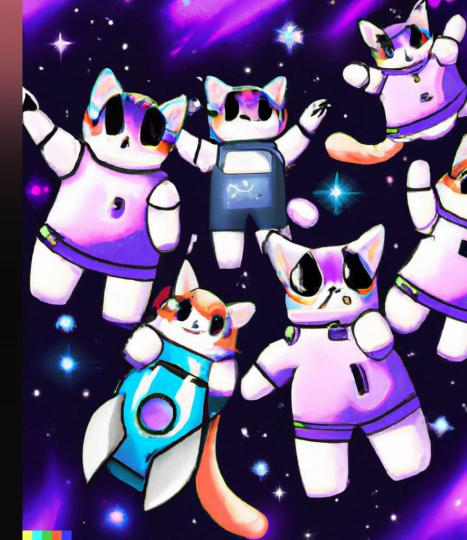
Moving from Reactive to Proactive in Technical Systems

What are you **doing now** to make sure you are **reliable tomorrow** and the day after?

Moving from Reactive to Proactive in Humans

What are you doing to build human connection?

What are you doing to maintain human connection?



Moving from Reactive to Proactive in Humans

Are you defining goals?

Are you working towards them?

Who is in your personal board of directors?

Moving from Reactive to Proactive in Humans

Prospection: The action of looking forward into the future.



kubectl apply -f humans.yaml

$\bullet \bullet \bullet$

apiVersion: v1 kind: Human metadata: name: Ana Margarita and Julie spec:

containers:

- name: speakers image: conf42 ports:
 - containerPort: 80

Self Care Tips

- Check in with yourself, often.
- Burnout Survey: burnoutindex.yerbo.co/
- Check in on your team mates
- Treat Yo Self: Get a massage, book a vacation with loved ones
- Unplug: Turn off social media, the news, technology
- Set deadlines (start small and be flexible with yourself)

Resources

- Apps like Calm, Headspace
- Open Sourcing Mental Health: <u>www.osmihelp.org</u>
- National Alliance on Mental Illness: <u>www.nami.org</u>
- Affording Care: <u>www.openpathcollective.org</u>
- National Suicide Prevention Lifeline: 1-800-273-8255 | 988
- Trevor Lifeline (LGBTQI+ Under 25) : 1-866-488-7386
- Trans Lifeline: 1-877-565-8860

It's OK to ask for help

We're all Humans, **BE KIND**.

Not all images were created by humans, thanks DALL-E.



🔆 Humans Reconnected 🔆

