DevOps, Diving, or Death? 

Choose 2

Solving technology problems with your own interests
Before We Begin....

Thank you to the conference organizers!!!!
Why....DevOps, Diving, or Death….Choose 2?

Constraint Triangle

Done Quickly

Fast & Good = Expensive

Cheap & Quick = Low Quality

Low Cost

Cheap & High Quality = Low Priority

High Quality

Do we always have to stay within this???
Constraint Triangle

Constraint + Constraint + Constraint + Creative Solution

Have your cake and eat it too!!!
Wikipedia Definition of Cave Diving

Underwater diving in water-filled caves. It may be done as an extreme sport, a way of exploring flooded caves for scientific investigation.

There are relatively few practitioners of cave diving. This is due in part to the specialized equipment and skill sets required, and in part because of the high potential risks due to the specific environment.
DevOps Definitions

- Software engineering **culture** and **practice** unifying dev and ops
- **Automation** and **monitoring** at all steps
  - **Shorter development cycles** (less time => less money => CHEAP)
  - **Increased deployment frequency** (FAST)
  - **More dependable releases** (WORKING)

DevOps Definitions

- Automates the processes between software development and IT teams
- Build, test, and release software faster and more reliably
- **Collaboration** between teams that historically functioned in relative siloes
- **Increased trust**
  - Faster software releases
  - Ability to solve critical issues quickly
  - Better manage unplanned work

Adapted from: [https://www.atlassian.com/devops](https://www.atlassian.com/devops)
WCPGW?

What Could Possibly Go Wrong?
WCPGW?
Cave Diving . . .

- Equipment Issues
- Running Out Of Gas (Not Planning!)
- Panic
- Communications/Trust
- Absolutely Anything!
WCPGW?
Cave Diving….Technology

● Equipment Issues
● Not Planning
● Panic
● Communications/Trust
● Absolutely Anything!
Equipment Issues
Equipment Failures

- Backups & Redundancy
- Using the right equipment & knowing how to use it
- Only what is necessary
Run out of gas

Not Planning!
Running out of gas

- Never acceptable!
- Rule of Thirds (planning)
- Gas management (monitoring)
- Proper equipment
Panic...
NOT being afraid of these things…

You will be...

...You will be!!
Panic

- Preparation
  - Training
  - Experience
  - Planning
- Maintain Control
  - Mental
  - Physical/Breathing
Always be learning, whether through formal or informal training
Experience is gained from failures....
Plan, plan, plan….and then stick to the plan
Trust and communications are essential!
Be prepared to handle things on your own, but be willing to collaborate with others
“Thumbing the dive”

- Any diver can call the dive at any time for any reason
- Always have a backout plan for when things go wrong...or maybe just don’t feel right
- **Team/Communications/Trust are ESSENTIAL!!!**
The Unexpected....

- You need to be prepared for anything...
- Yes, really, you need to plan for that.
Continuously improve by making mistakes in low stakes environments, and doing analysis and reviews.
Applying to Your Own Interests
Look for similarities

Similar problems == similar solutions????
Examples

- Cooking
  - Following recipes == Procedures, documentation
  - Still need to be able to adjust for creativity/preference
    - Not all software works right out of the box!
  - Checking/adjusting/fixing mistakes (agile)
What skills and abilities enable you to excel?

What makes one possible?
Examples

- Activities where you clearly need specialized training, skills, equipment, etc because failing is bad
  - Sky Diving
  - Cave Diving
  - Technology
Remember to have F.U.N.
Example

- Designing Office 365 Migration by comparing to traffic
- Leadership Improv!
  - Last Friday of month in Union South, noon-1:15pm
So What Now????
Thank You!

Questions?

Have examples?

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