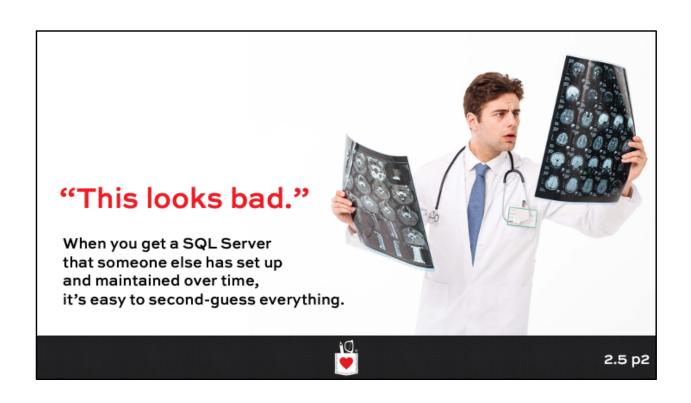
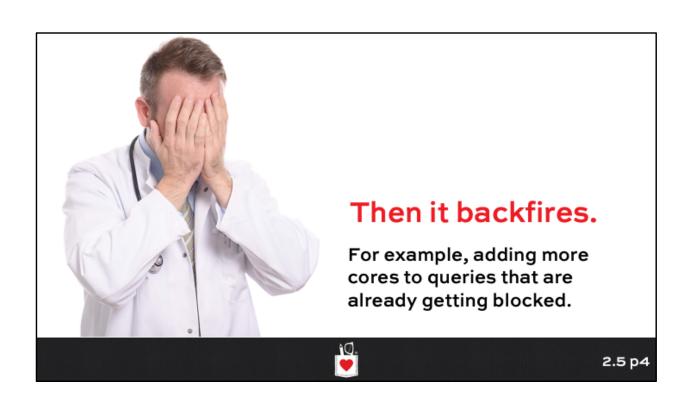


## Lab 4: Planning the Work

Lessons learned







## Change = risk.

Every time you make a change, there's a risk it will break something.

It doesn't matter how well you know it.

It happens to me, too!

To minimize your risks, minimize your changes. Focus on the ones people will notice and love.



## Tuning is all about 3 numbers.

From Day 1

- 1. Total database size (and quantity)
- 2. Batch Requests/Second
- 3. Wait Time Ratio:
  Wait Time per Core per Hour (or per sec)

Capture these metrics with sp\_BlitzFirst.

Your top wait stat is where to focus your tuning.



## More data = less risk.

If you only have a 60-second sample of wait stats, it's harder to be confident.

Trending over days or weeks helps you tune better.

Since change = risk, start by only changing things that will stop the user screams.

