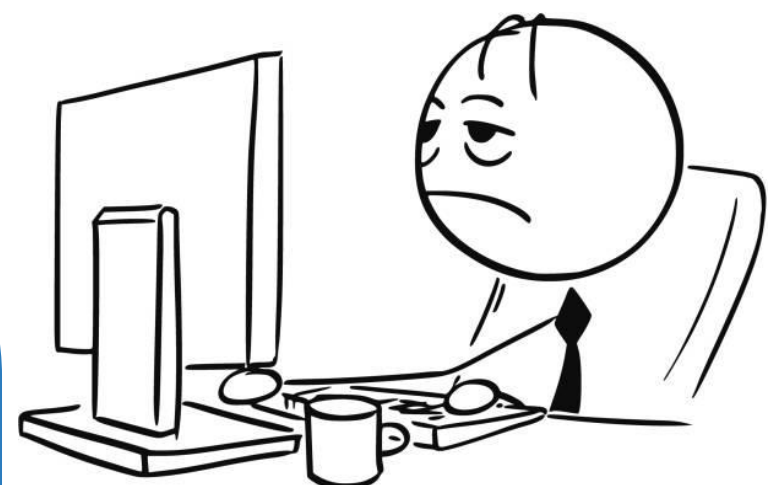


What's MIGRATION?

- In Kubernetes (K8s) things change rapidly and we have to adapt. Old versions stop being supported, have bugs, new security vulnerabilities discovered and so on...
- Kubernetes updates require manually (or automatically) checking every possible file template. Thousands of files to check!
- Be ready to unexpected changes in short time, e.g. one never knows when security vulnerabilities appear.
- You have to adapt! You're lucky if only once per year.
- You may make a mistake – you're only human.

Currently the most popular way is full of disadvantages

- You should check manually every possible change – review manually all the release notes
- Trying to re-deploy all existing definitions in new cluster version; wasting your time and resources
- Getting feedback only after everything has happened
- Unmeasured amount of work and verifications to be done
- Unestimable plans due to lack of feedback



Let's hope the old one works



New! Kubediff

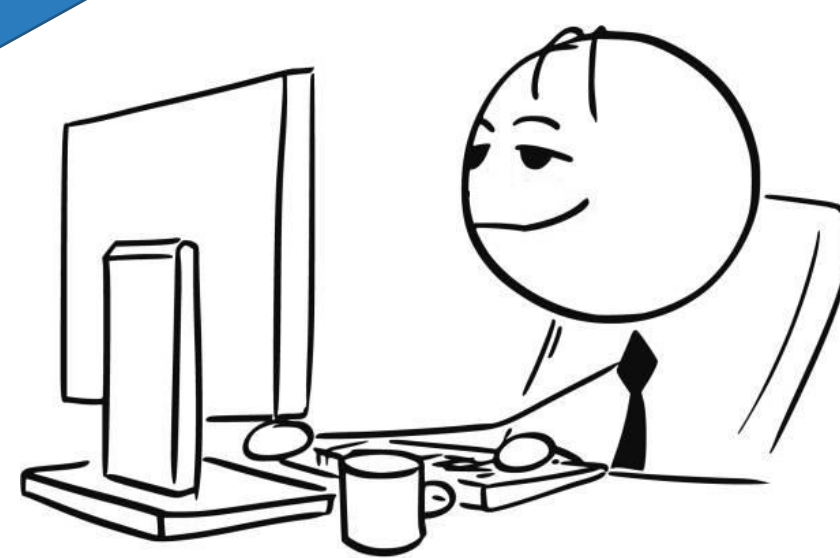
Static-side check

- Automate validation of templates
- Smart converting between K8s versions
- Feedback before, no surprise later
- Catch potential changes and divergences before server deployment
- Save resources & money!
- Faster feedback
- Better planning
- Sleep better

Server-side check

- Deploying old resources (when possible)
- Deploying converted resources
- Final validation - a combination of OpenAPI and internal validation rules of the K8s server engine
- At the end you're having stable versions, performance and security fixes, new features, & patched bugs
- Kubernetes implementation doesn't facilitate static analysis to know the final version (last check is always in server side)

Verification & conscious changes



Benefits

- Daily work planned without surprises
- Reduced errors – you can spend time quietly with friends or family, not on the phone or at the laptop
- More time doing smart things at work and less time reading schematics that machines and computers should read
- Save money! Reduce migration time: developer's time & pre-located infrastructure or additional environments. It adapts to cloud or hybrid solutions; public, private, maintained by you, etc.
- You can complement integration tests and CI/CD with static-side check to increase reliability of infrastructure