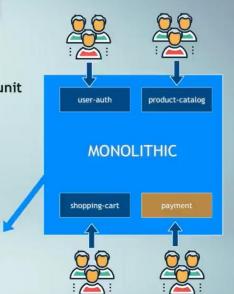
Before microservices, a monolithic architecture was the standard



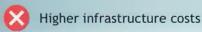
Monolith

- ▶ All components are part of a single unit
- ▶ Everything is developed, deployed and scaled as 1 unit
- ▶ App must be written with 1 tech stack
- ► Teams need to be careful to not affect each other's work
- ▶ 1 single artifact, so you must redeploy the entire application on each update



Challenges of monolithic architecture

- Application is too large and complex
- Parts are more tangled into each other
- You can only scale the entire app, instead of a specific service





MONOLITHIC

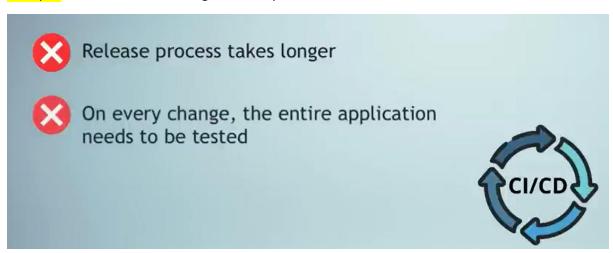
MONOLITHIC

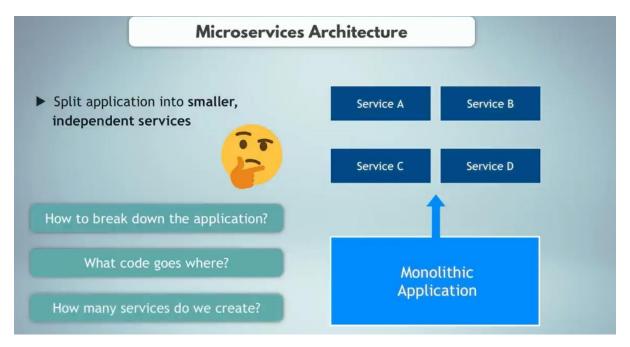


Difficulty if services need different dependency versions



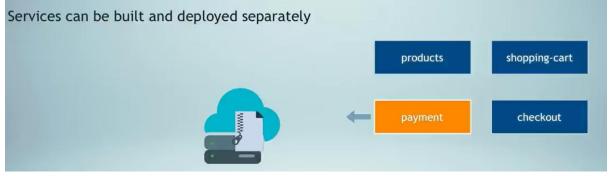
Example: Jenkins and SPC running on same system.



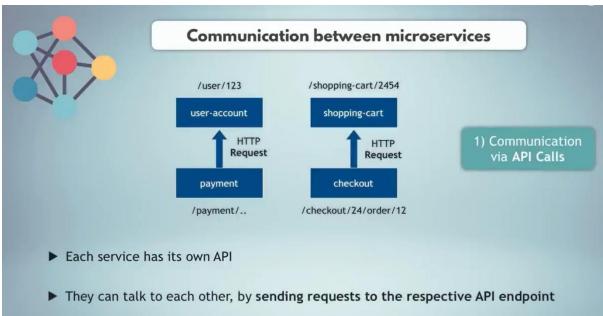


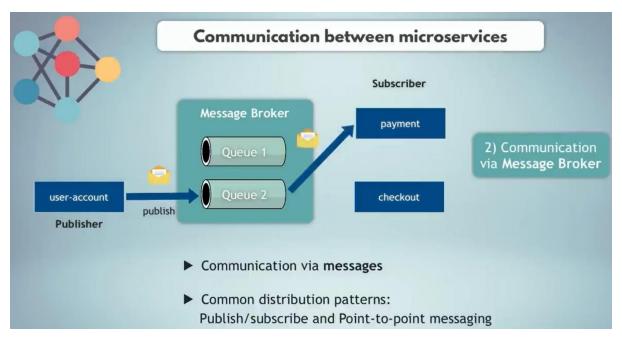
- 1) Based on business functionality break down the application.
- 2) Please follow strangler patter while breaking the application.

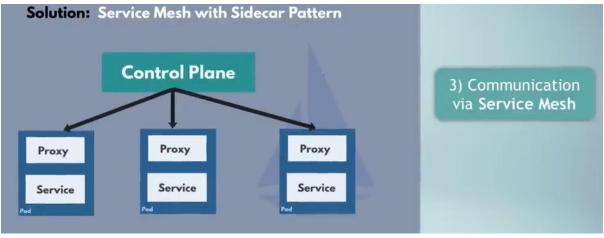




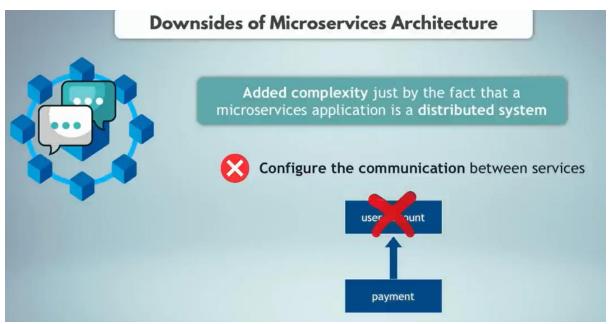


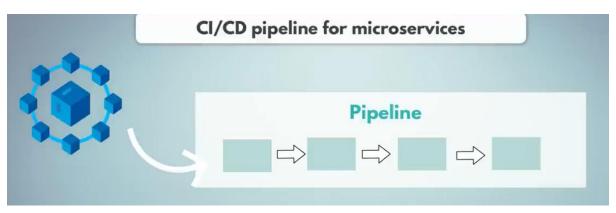


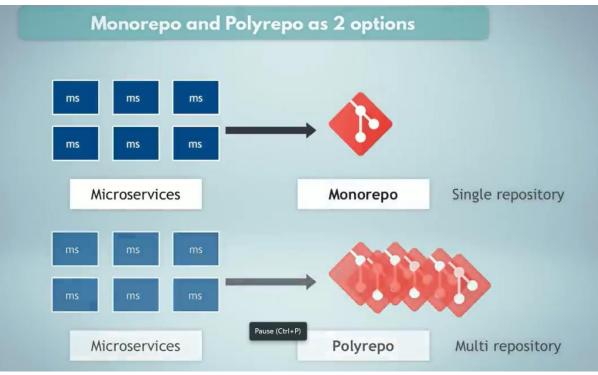


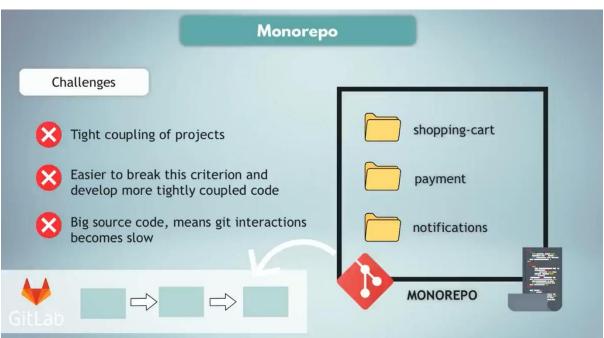


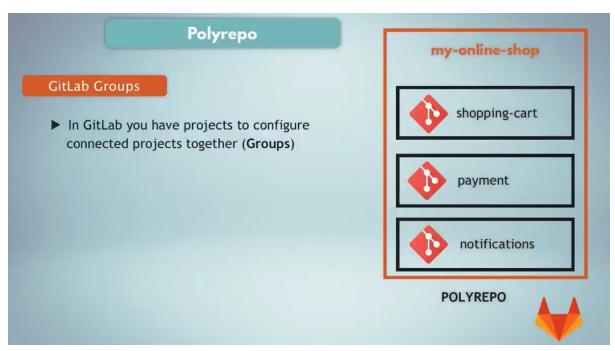


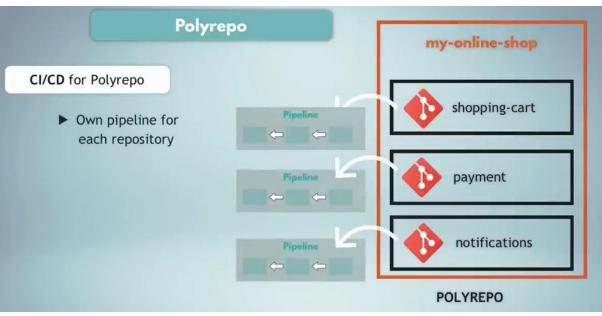








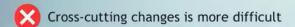


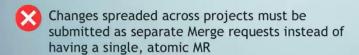




Polyrepo

Downsides of Polyrepo

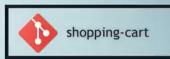




Switching between projects tedious

Searching, testing and debugging is more difficult

Sharing resources more difficult







POLYREPO