DEVOPS

WHY DEVOPS?

Development



Operations

Dev/QA

Coding Design Testing

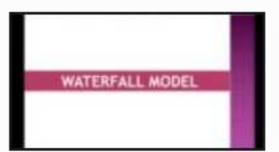
Change

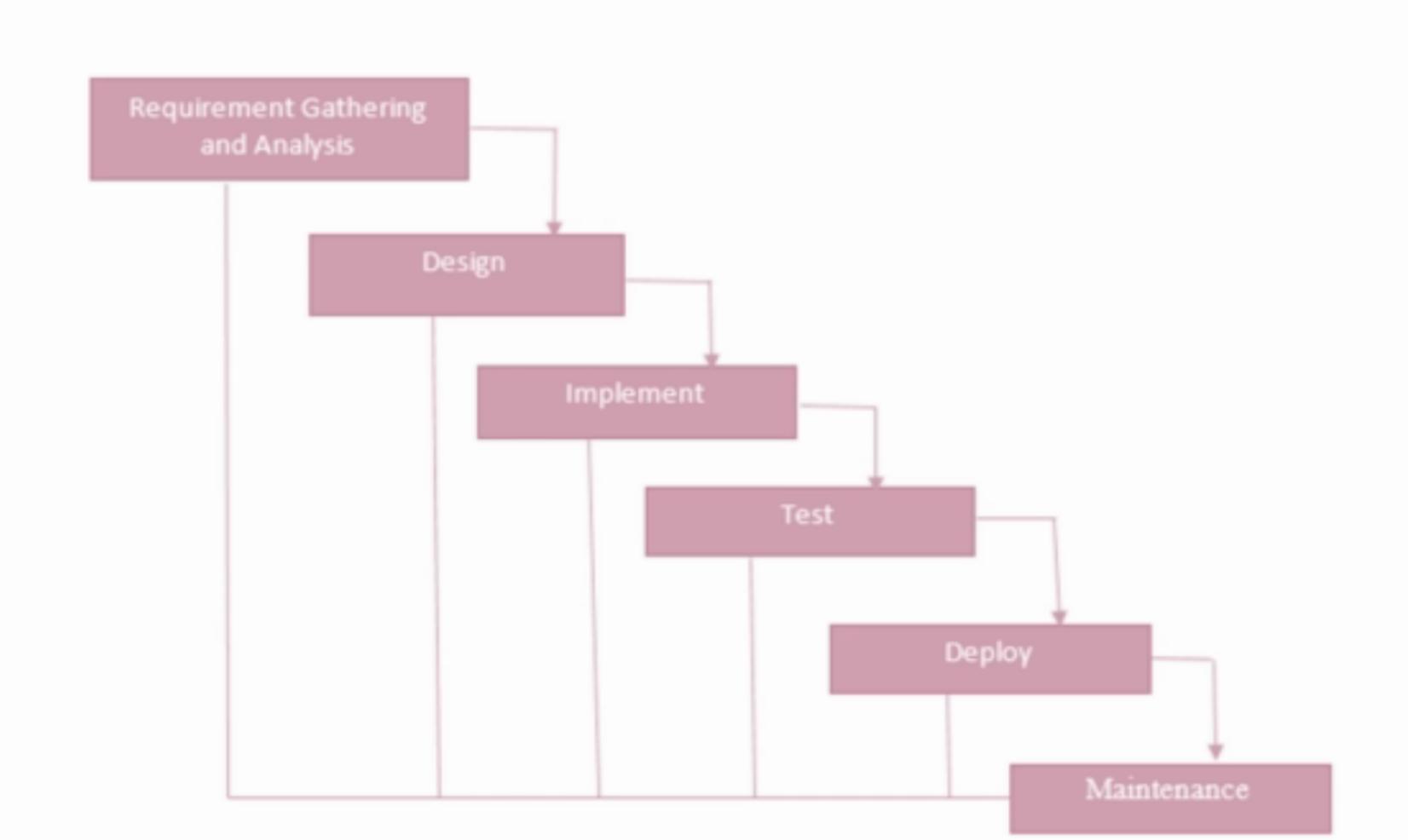
Admins/Nw tech/DBA

Infra

Checks

WATERFALL MODEL





CHALLENGES IN WATERFALL MODEL

- Slow
- Time taking
- Bug fixing is slow
- Software is delivered only after complete software is ready
- Not flexible
- No proper configuration management
- Monitoring the infrastructure

WATERFALL MODEL

● Dev → Testing → Delivery → Monitoring

DEV | QA | OPS

AGILE MODEL

WATERFALL MODEL

- Dec + Testing + Settlery + Hustin's

+ DEV | QA. |

AGILE METHODOLOGY

| Dev Team(QA) | Ops Team |
|--------------|----------|
| Jost | |

WHY DEVOPS?

- Gap between the teams
- Challenges of traditional methodologies
- Faster Delivery
- Quality Product
- Less Resources

WHAT IS DEVOPS?

- Continuous Development, Continuous Testing, Continuous Integartion, Continuous Deployment and continuous monitoring is Devops
- DEV+QA+OPS

SUMMARY

Waterfall -> Dev + Test + Deploy + Monitor

Agile -> CD + CT + CI + Deploy + Monitoring

Devops \rightarrow CD + CT + Cl + CD + CM

CD+CT+CI+CD+CM

- Automating the workflow
- Integrating different devops tools
- Collaboration between the teams

WHAT IT IS AND WHAT IT IS NOT?

- Devops is a methodology.
- It is a cultural change
- Not a language
- Not a tool
- Not a technology
- Not simply set of tools !!

DEVOPS TOOLS

- VCS →
 Git,SVN,TFS,Perforce
- Build Tools →
 Maven, Ant, Gradle
- Continuous Integration Tools ->
 Jenkins, Bamboo, Hudson
- Continuous Testing Tools >
 Selenium, Junit, TestNG
- Containerisation Tools → Docker, Rkt
- Configuration Management Tools ->
 Puppet, Ansible, Chef, Salt Stack
- Continuous Monitoring Tools →
 Splunk, ELK, Nagios