DevOps Getting Started

DevOps X-Ray Assessment
https://www.devops-survey.com

Microsoft DevOps Self-Assessment
https://aka.ms/devopsassessment

Transforming the culture is the biggest challenge.

PEOPLE need to buy into the transformation, be kept up to date on all initiatives, understand how their roles will be affected, collaborate transparently, and take responsibility for their features.

PRODUCTS and technology are enablers, allowing teams and architects to focus on outcomes.

(Infinity loop diagram)

- ① ASSESSMENT
- ②
- ④ PRODUCTS
- ③ PROCESS
- ⑤ VALUE
- PEOPLE
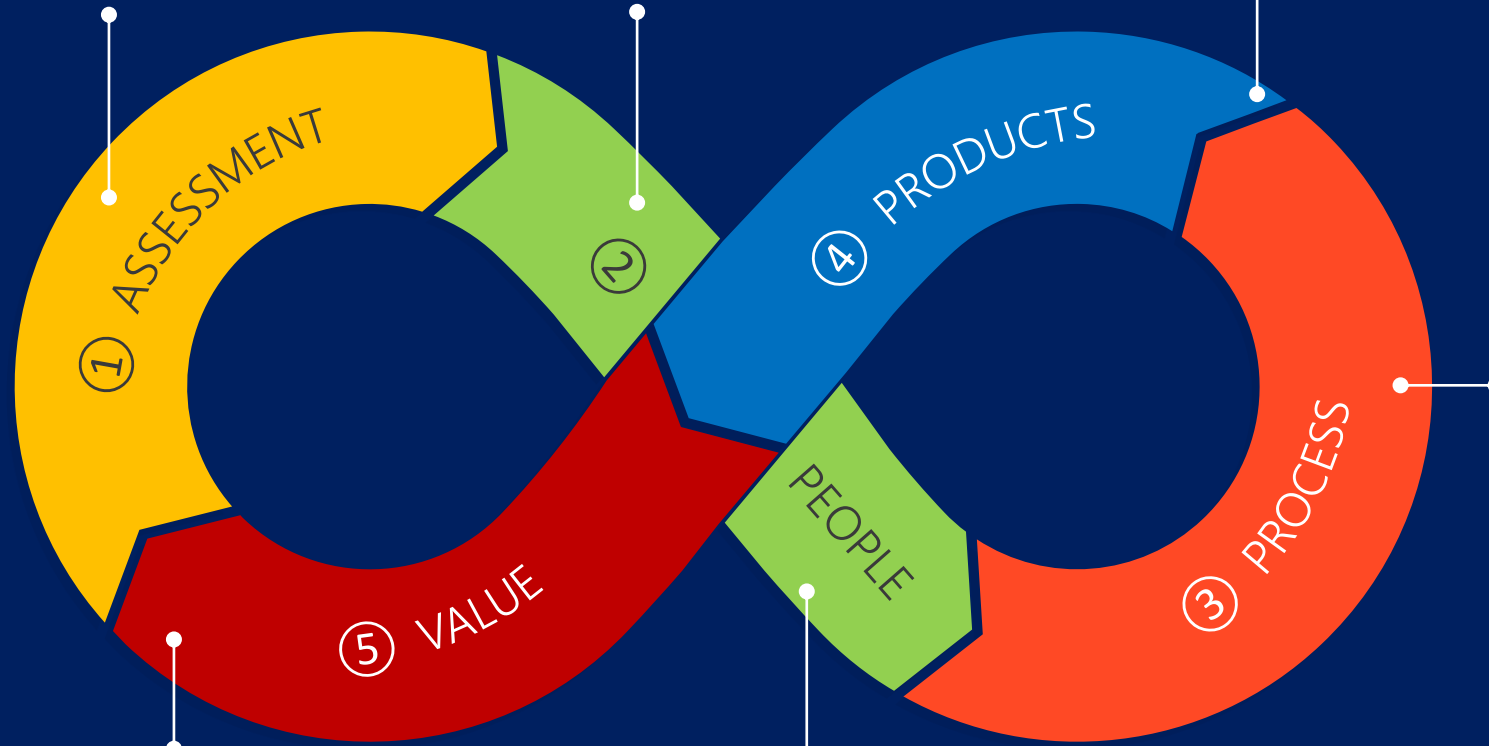
Key **PROCESS** Goals
- Automate everything – fast, stable, consistent
- Celebrate success as a team and organization!
- Focus on quality (security, test, deploy,…)
- Lightweight change management process
- Loosely coupled architectures enable scaling
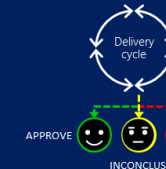- Multiple releases per day

Live Site Incidents
- Track live site incidents
- Remediate at root cause level

Lean Management
- Create a production feedback loop
- Lightweight (empower, trust) change approvals
- Limit work in progress (WIP)
- Visual (dashboards) work management

Lean Development
- Experiment, learn, and influence
- Gather & action feedback
- Make flow of work visible (dashboards)
- Work in small batches (WIP)

It's about delighting our stakeholders with **VALUE**!

Key performance indicators
- Change failure rate
- Deployment frequency
- Lead time for changes
- Time to recover

Leadership
- Accept failures as normal
- Inspirational communications
- Intellectual stimulation
- Own the vision
- Personal recognition
- Supportive leadership

Culture
- Climate of learning
- Cross-functional collaboration
- Dogfooding and canary environments
- Effective use of tools
- Everyone empowered
- Everyone responsible and on call
- Trained to run the business
- Value stream-based teams

Delivery cycle

APPROVE — INCONCLUSIVE — DISPPROVE

HYPOTHESIS
We believe {customer/**business** segment} wants {product/feature/**service**} because {**value** prop}

Continuous Delivery
- Built-in quality
- Continuous improvement
- Everyone is responsible
- Use computer for repetitive tasks
- Work in small batches