# DevOps Getting Started

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

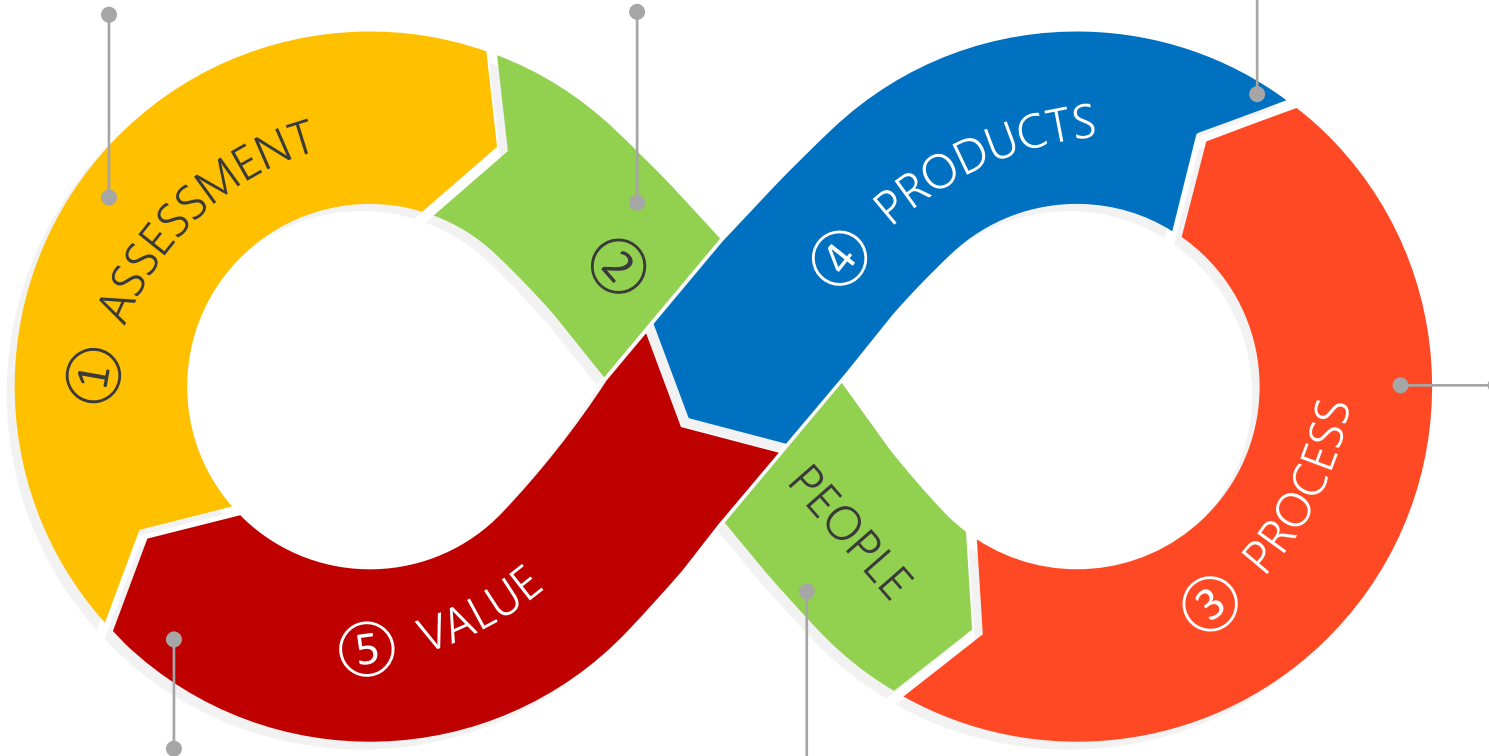Microsoft DevOps Self-Assessment
https://aka.ms/devopsassessment

Transforming the culture is the biggest challenge.

All **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.

① ASSESSMENT
② 
④ PRODUCTS
③ PROCESS
⑤ VALUE
PEOPLE

Key **PROCESS** Goals
- Focus on quality (security, test, deploy,…)
- Loosely coupled architectures enable scaling
- Lightweight change management process
- Automate everything – fast, stable, consistent
- Multiple releases per day
- Celebrate success as a team and organization!
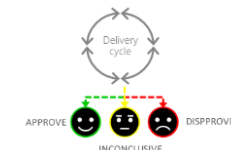
Live Site Incidents
- Track live site incidents
- Remediate at root cause level

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

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

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

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

Leadership
- Vision
- Inspirational communications
- Intellectual stimulation
- Supportive leadership
- Personal recognition

Team Culture
- Cross-functional collaboration
- Climate of learning
- Effective use of tools
- Everyone is responsible

Culture
- Value stream based teams
- Dogfooding and canaries
- Org trained to run the business
- Everyone empowered
- Everyone responsible and on call
- Everyone engaged in the team

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

Delivery cycle
APPROVE    DISPPROVE
INCONCLUSIVE

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

Sources: https://aka.ms/devops, ACCELERATE book, and DevOps Handbook