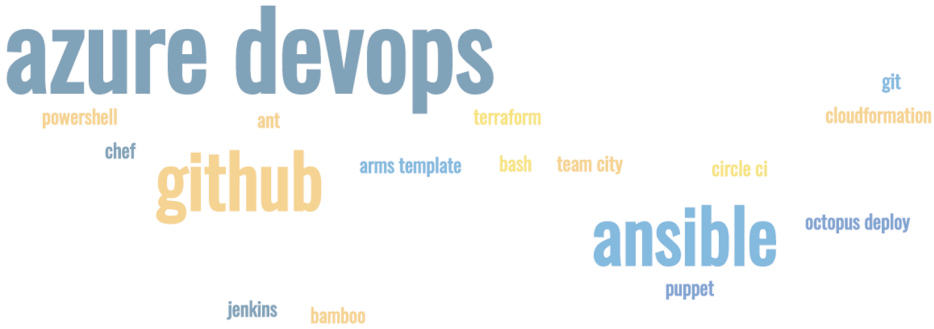


Azure DevOps part 1

Azure DevOps, Deep Dive – Part 1

Sujit Singh


Azure Repos


Azure Pipelines


Azure Artifacts


Azure Test Plans


Azure Boards

Agenda

- Azure DevOps
- Overview
  - Plan
  - Build
  - Test
  - Release
- Build
  - Repo
  - Branching
  - Releases
- Example
  - Azure DevOps

Azure DevOps

- Introduction
  - VSTS (on premises, VS Team System) - 2005
  - TFS (on premises, Team Foundation Server) - 2008
  - VSO (Visual Studio Online) – 2013
  - VSTS –(VS Team Services) – 2015
  - ADO (Azure DevOps) - 2018

Azure DevOps – Single Tool for delivery

Plan
Backlog, work items

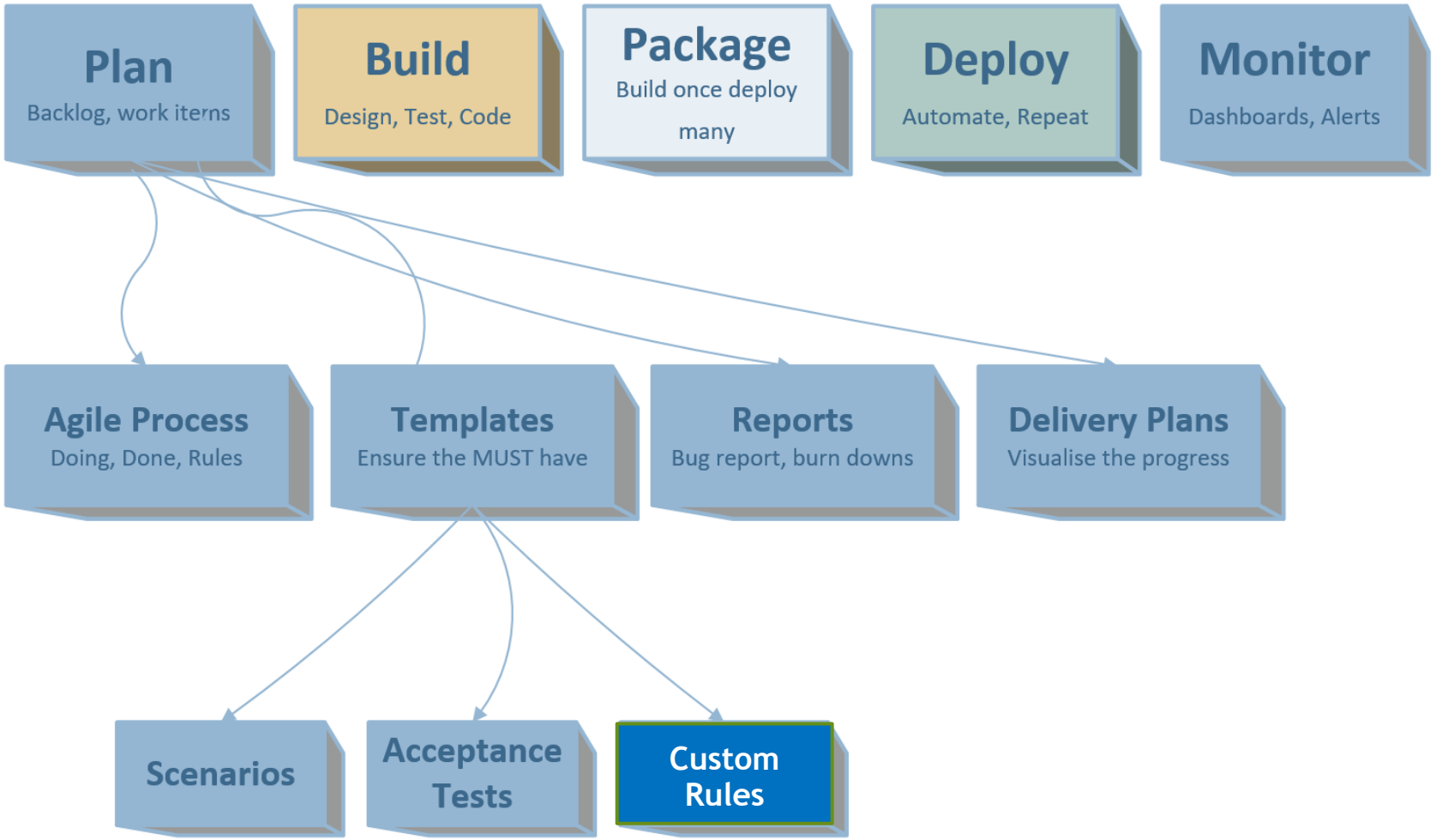
Build
Design, Test, Code

Package
Build once deploy many

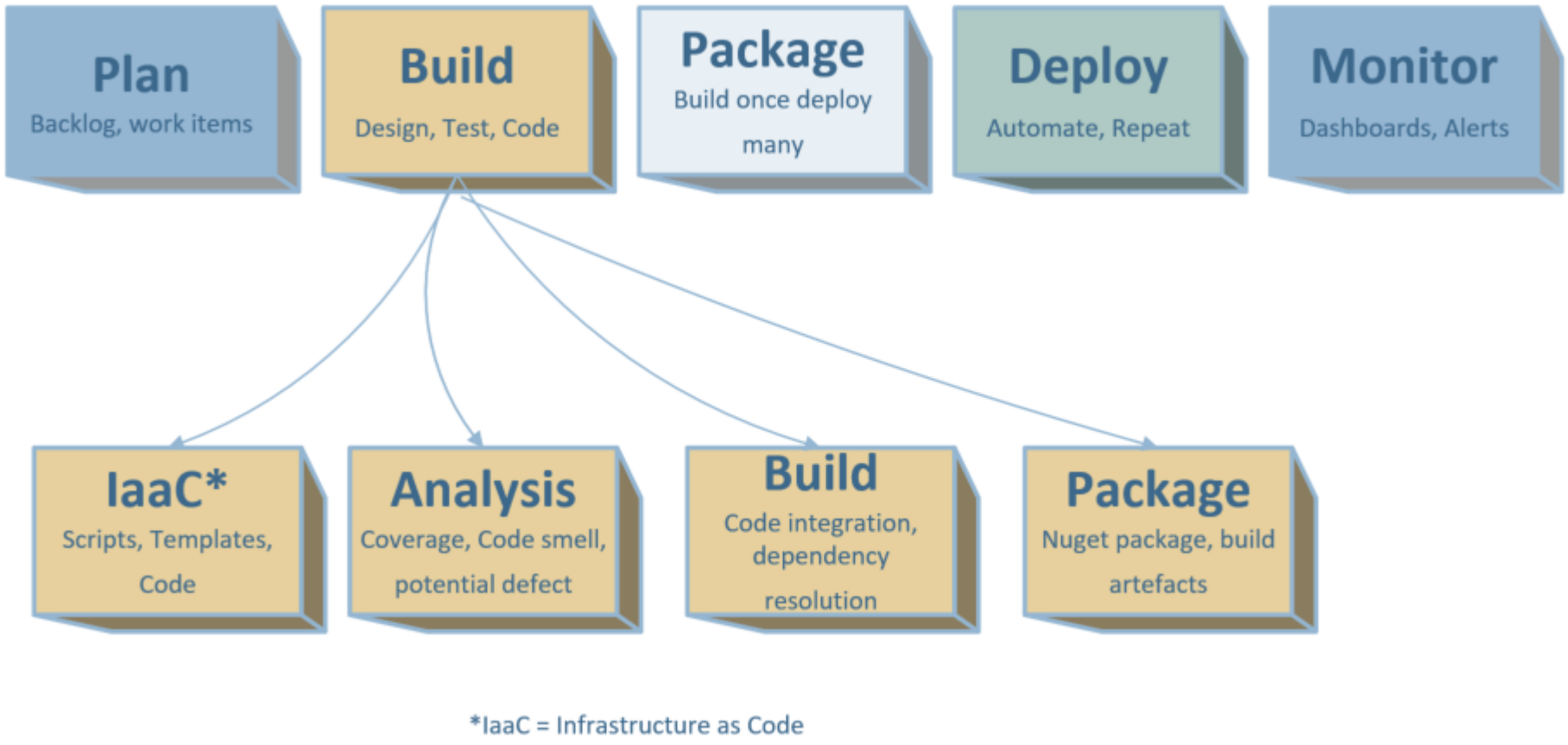
Deploy
Automate, Repeat

Monitor
Dashboards, Alerts

Azure DevOps - Build

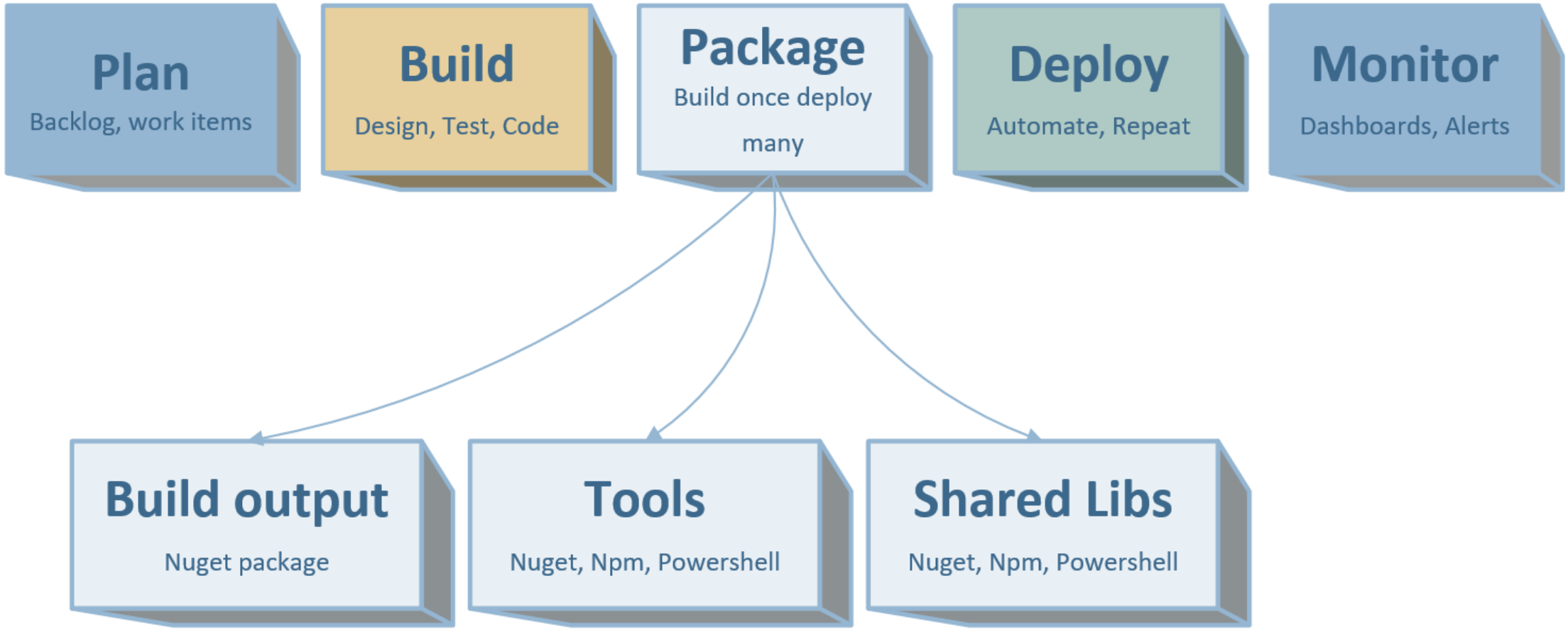


Azure DevOps - Build

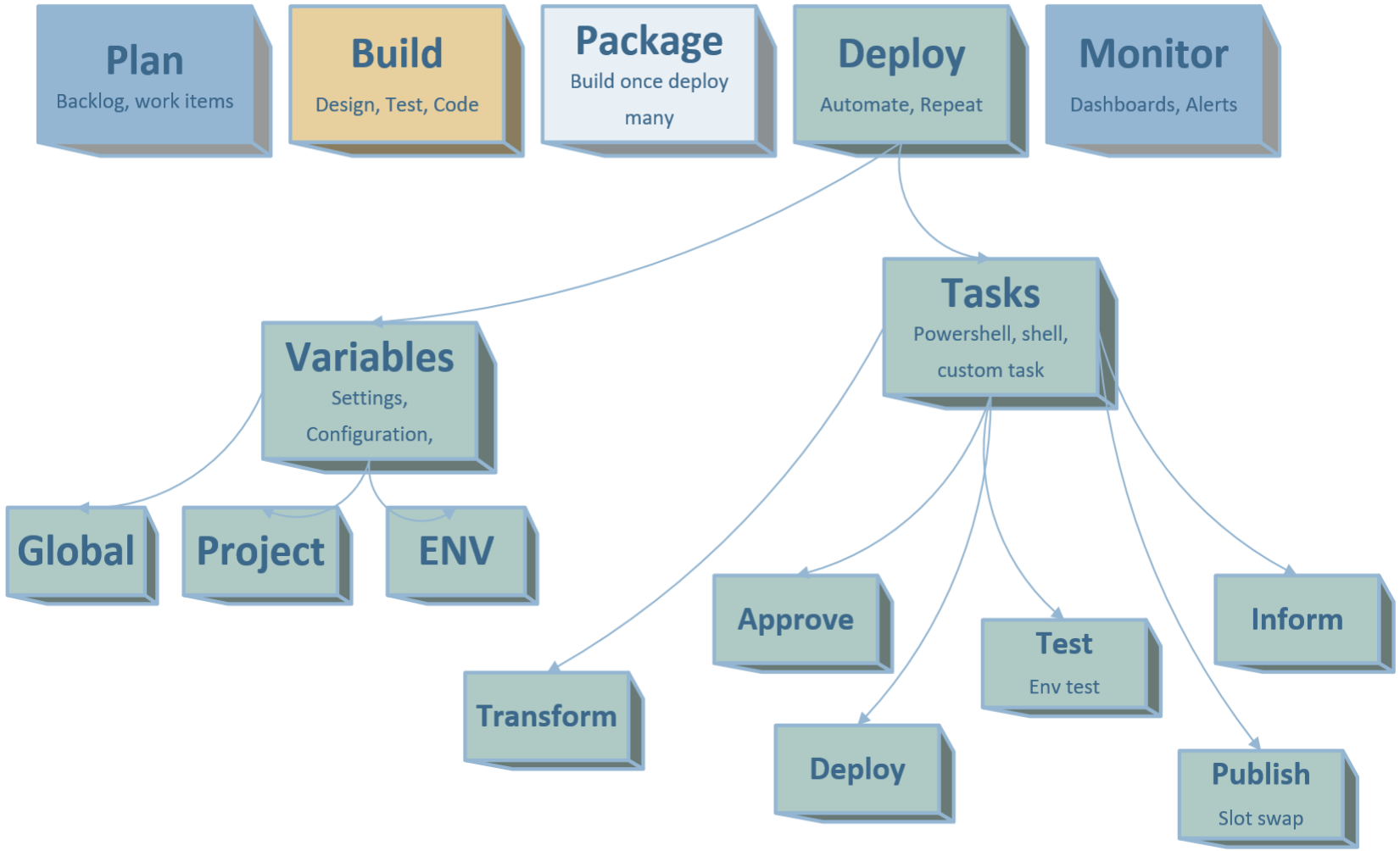


*IaaC = Infrastructure as Code

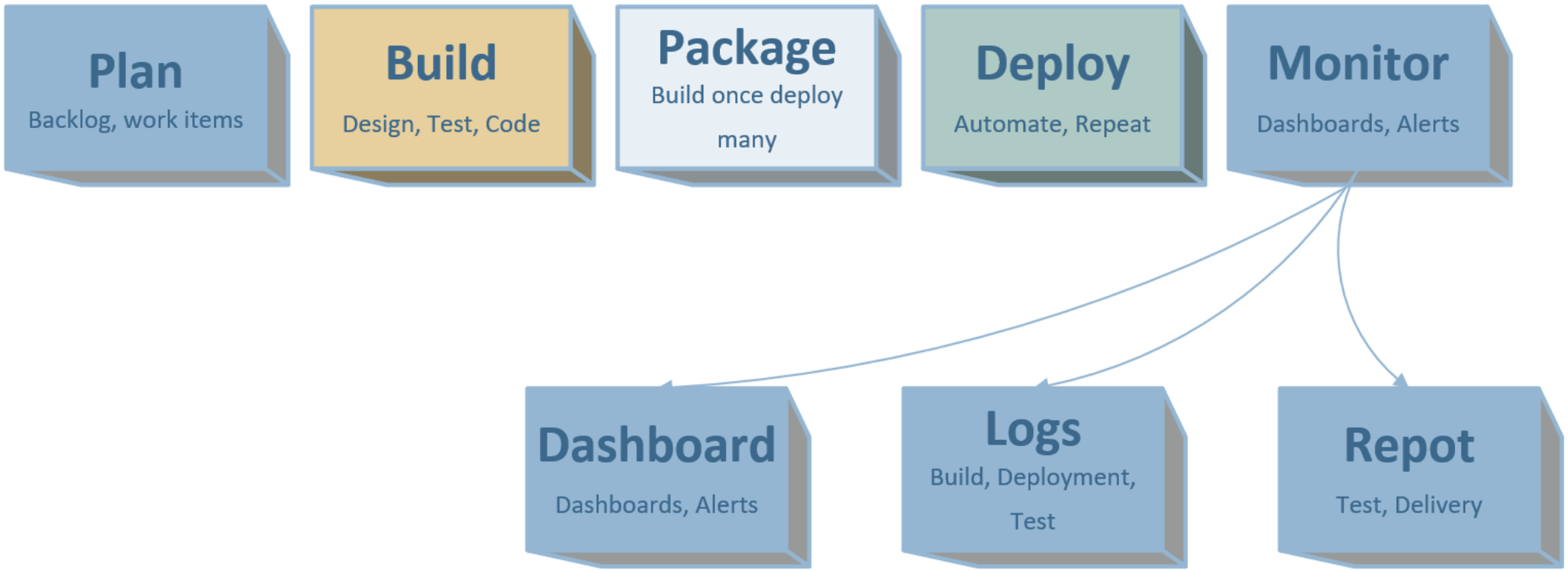
Azure DevOps - Package



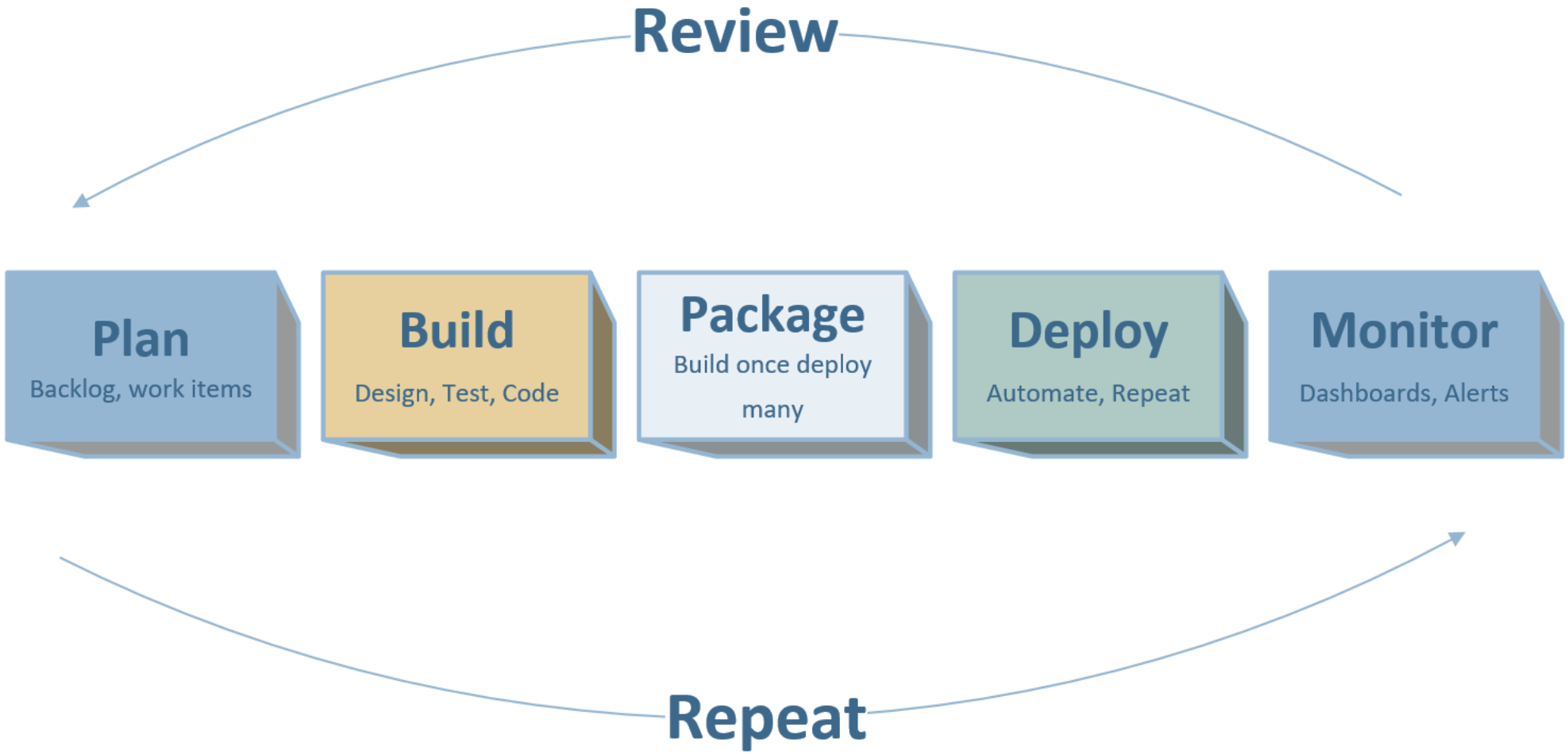
Azure DevOps - Deploy



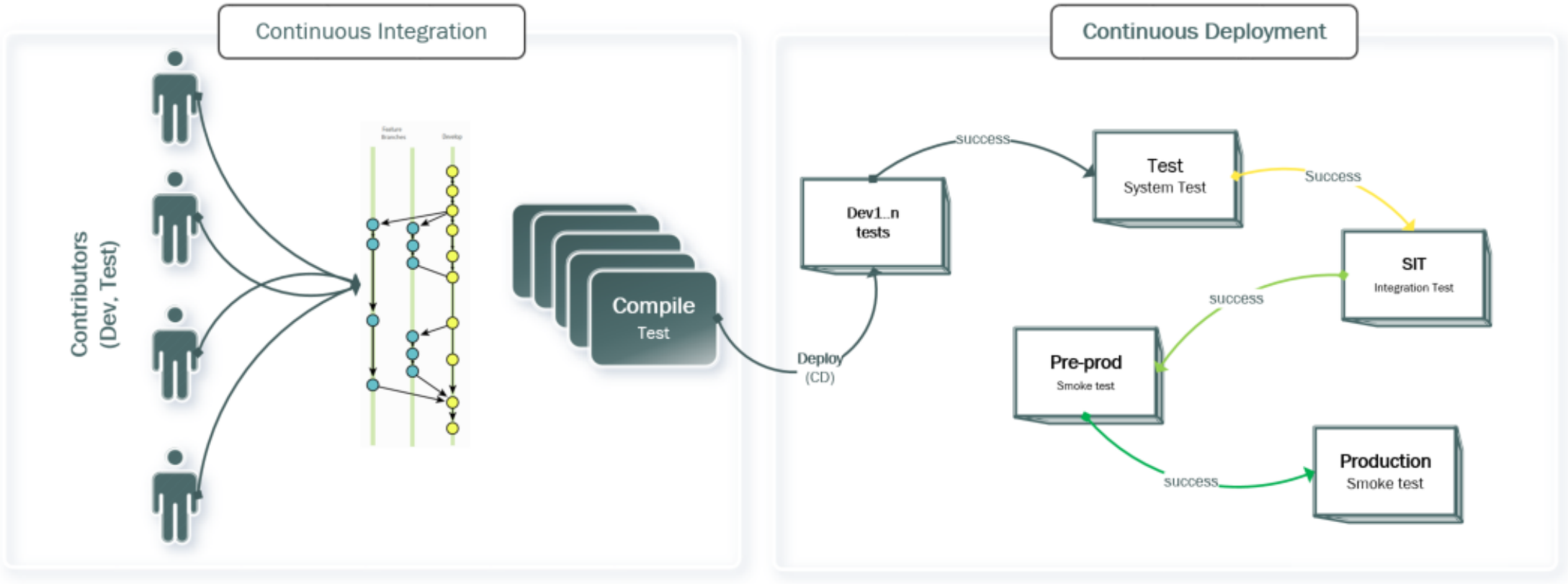
Azure DevOps - Monitor



Azure DevOps – Continuous Improvement



Azure DevOps – Typical deployments



Environments are logically grouped, they can have one or many physical components
Repeatable process, environments can be recreated.
SIT deployment goes through co-ordination between teams
Pre prod and prod deployment usually go through change control

Break

- Comments

Example and Demo

Product Owner

Business Analyst

Product Owner

Engineers

Engineers

Product Owner

New
- Create User story
- Add initial high-level requirement

Ready
- Clear Description updated
- Acceptance Criteria
- Persona and context provided

Approved
- Team agrees and understand implementation requirement
- Estimated

Active
- Tasks created
- Unit testing
- Implementation done, tasks closed
- Documentation done

Resolved
- Verified

Closed
- Stakeholders informed

New stories can be created by other team members (delegated by PO if agreed)
Approval can be done by Scrum master if PO agrees
Story can be closed by Scrum master if PO agrees