

Application Lifecycle Management

Agenda...



ALM Definition



CYBAGE VISION



ALM Benefits



ALM Services



Tools Integration



ALM@Cybage

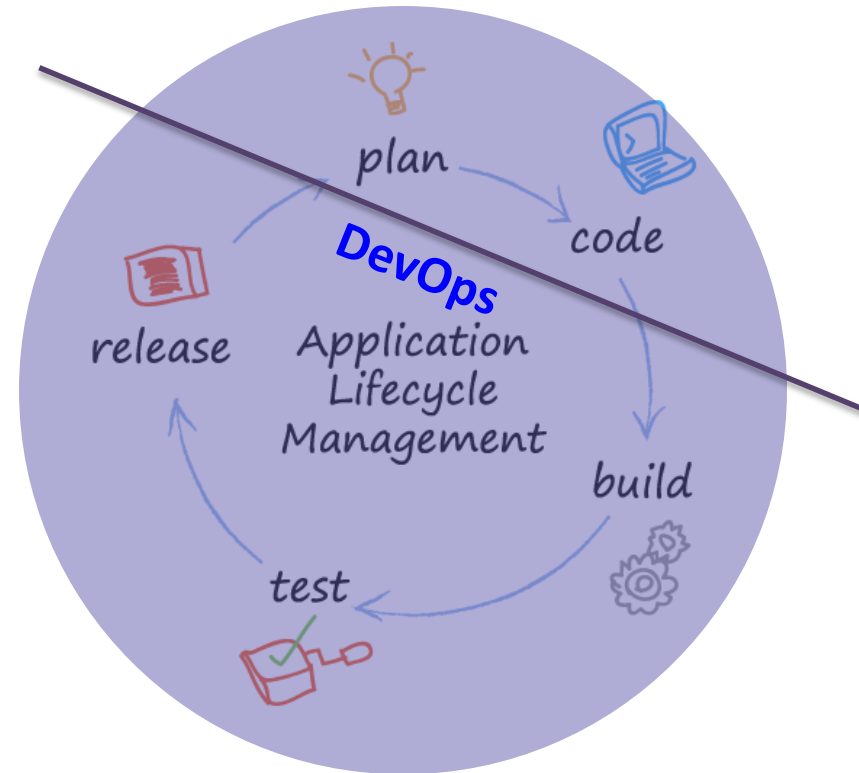
Four Values of The Agile Manifesto

- Individuals and Interactions Over Processes and Tools.
- Working Software Over Comprehensive Documentation.
- Customer Collaboration Over Contract Negotiation.
- Responding to Change Over Following a Plan.



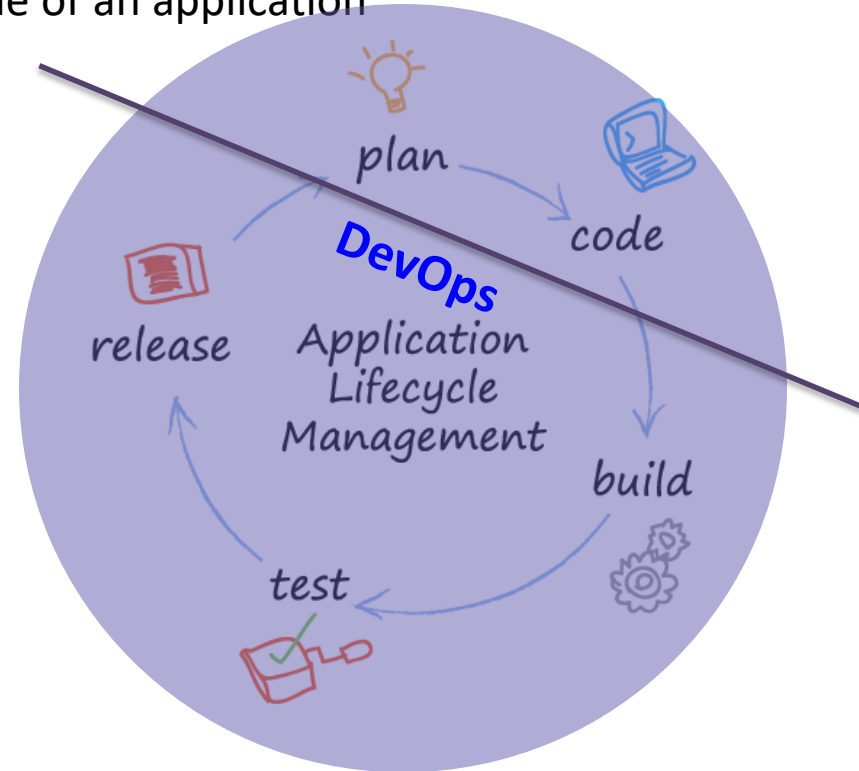
ALM Definition

- Continuous process of managing an application
- Governance, development, and maintenance
- Ensuring high quality
- Automated provisioning of environments
- Reduce time between committing a change



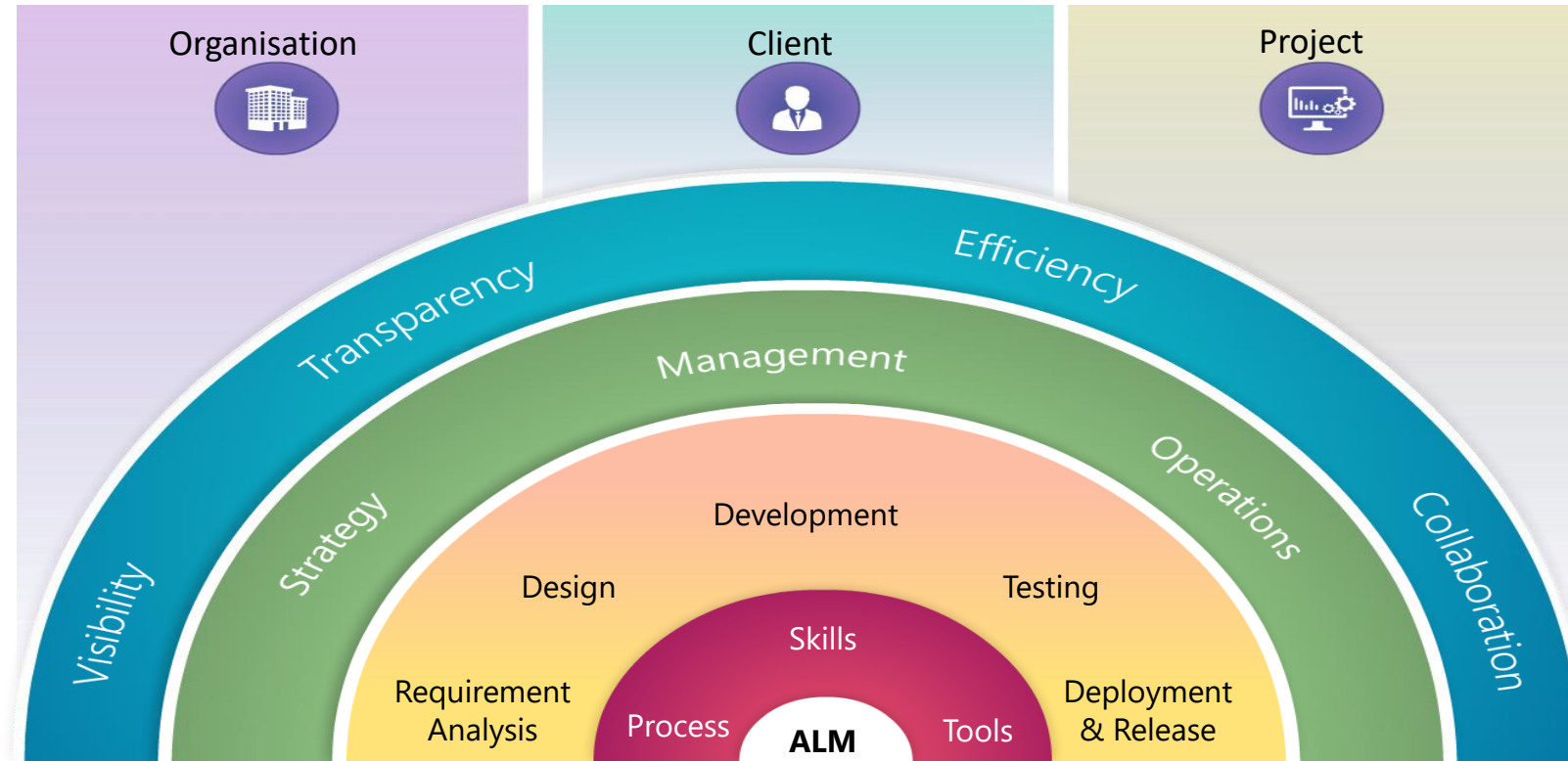
ALM Definition

- ALM is a continuous process of managing the life cycle of an application right from initial planning till completion through governance, development, and maintenance.
- DevOps is a set of practices to reduce time between committing a change to the system and production environment while ensuring high quality



Cybage ALM Vision

- ALM objectives
- Governing
- During phases
- By strategizing
- Beneficial to stakeholders



ALM Services

Assessment of processes and practices

End-to-end ALM solutions implementation

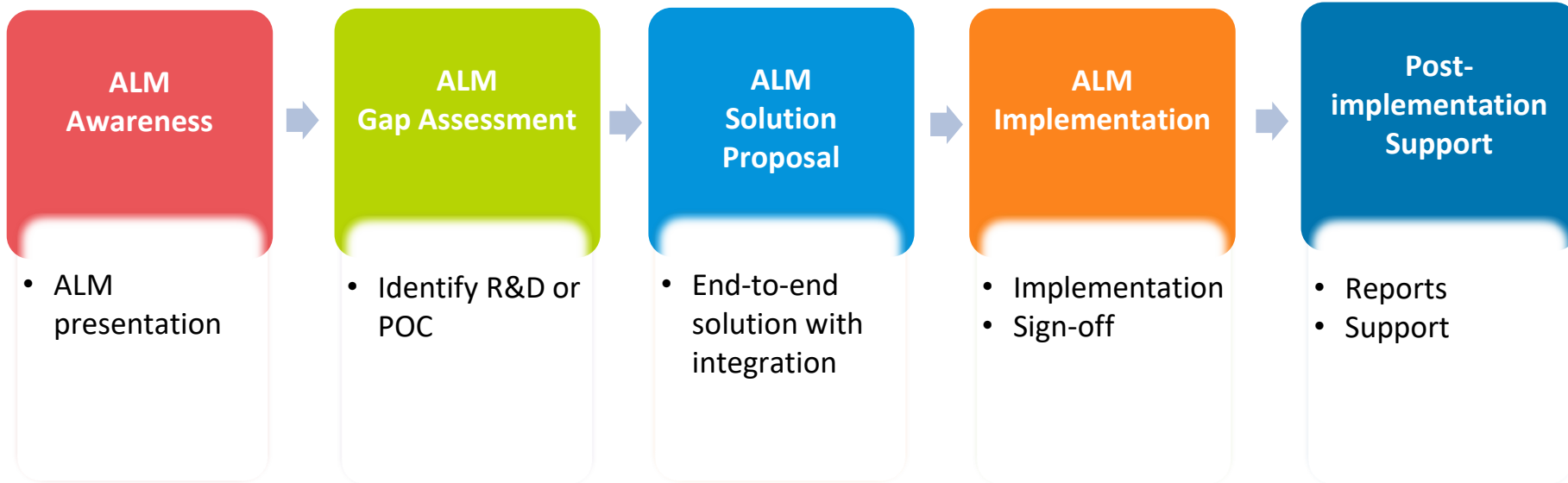
Trainings

Consultancy to derive Strategy / Tools / Processes

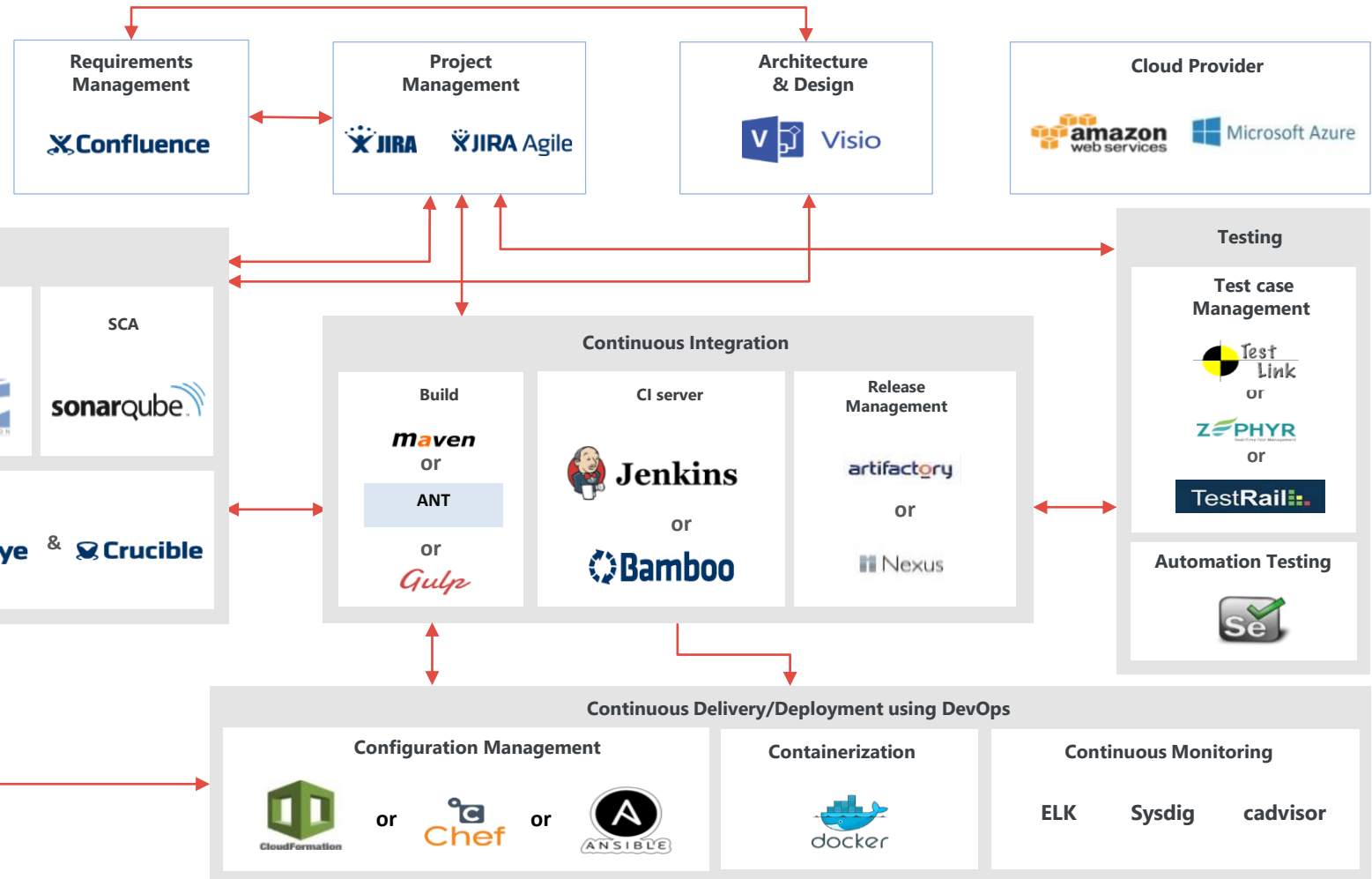
ALM implementation stages

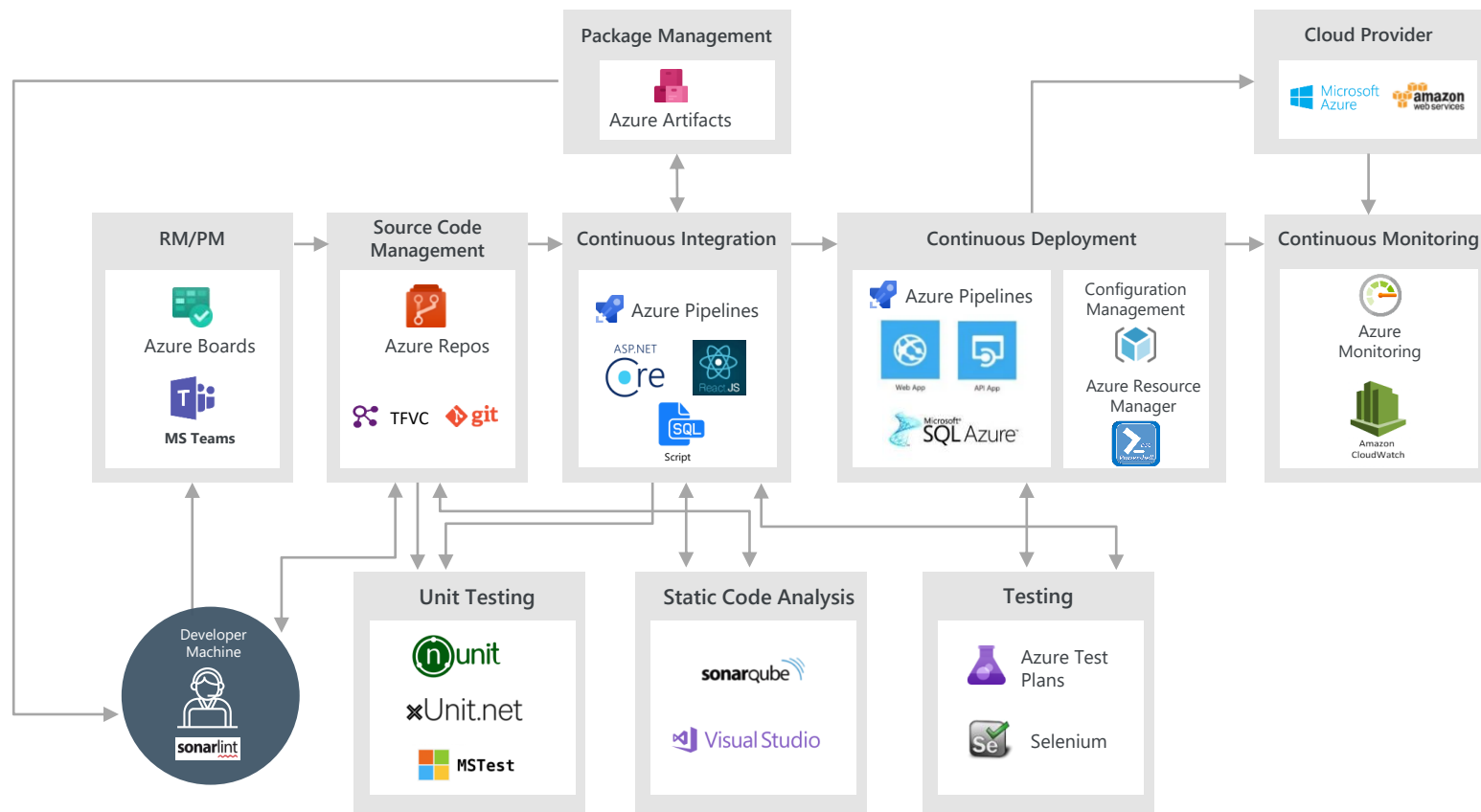
Ownership: The ALM team

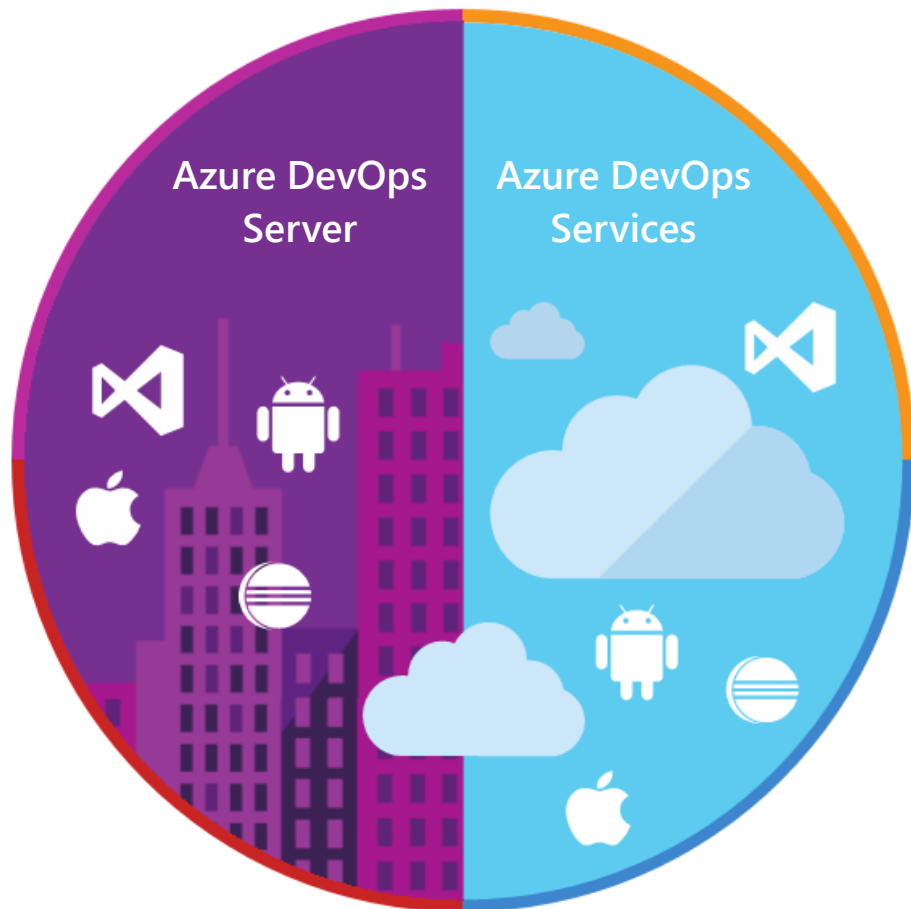
Handing over



Tools(LT) Integration

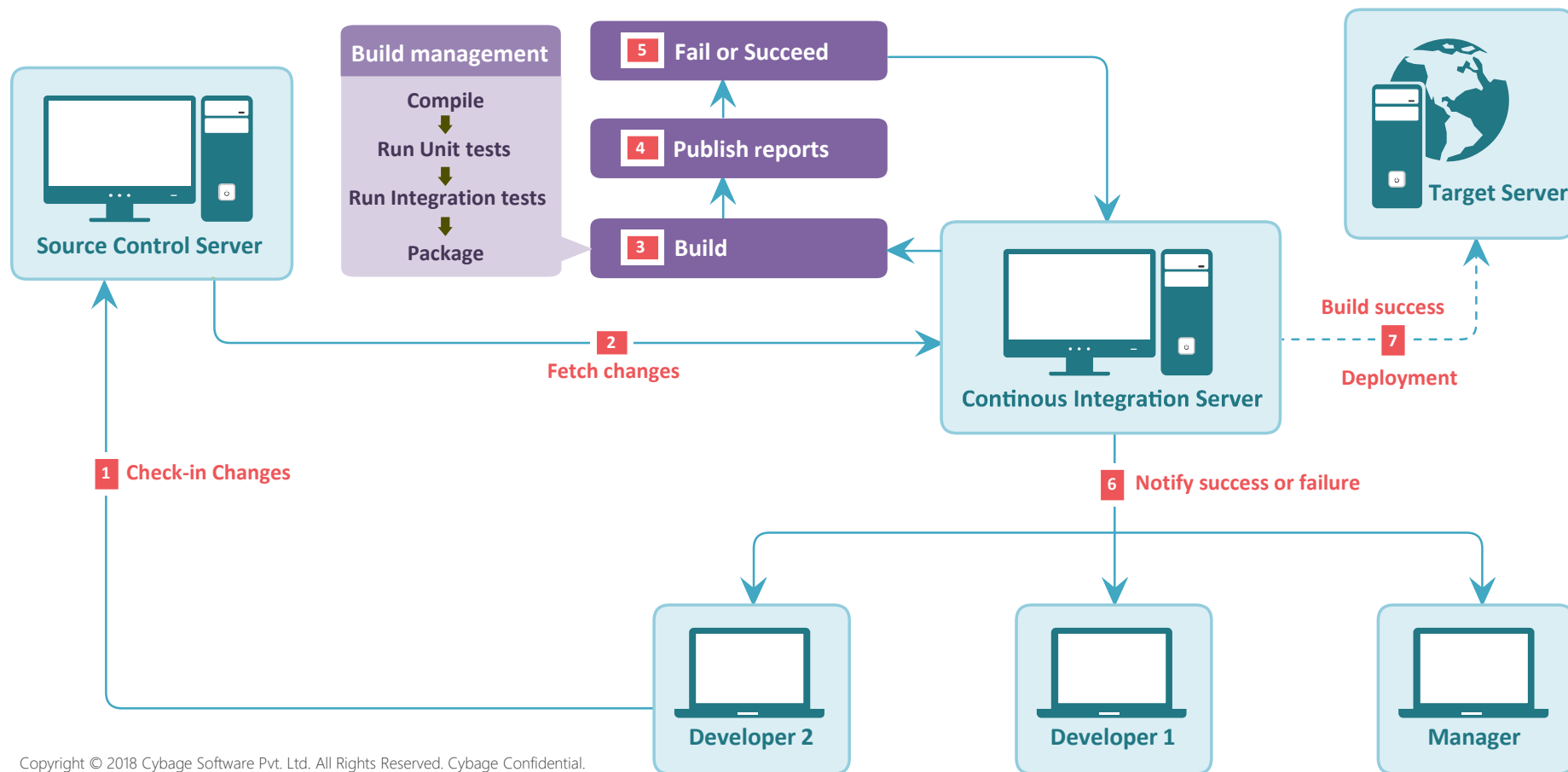






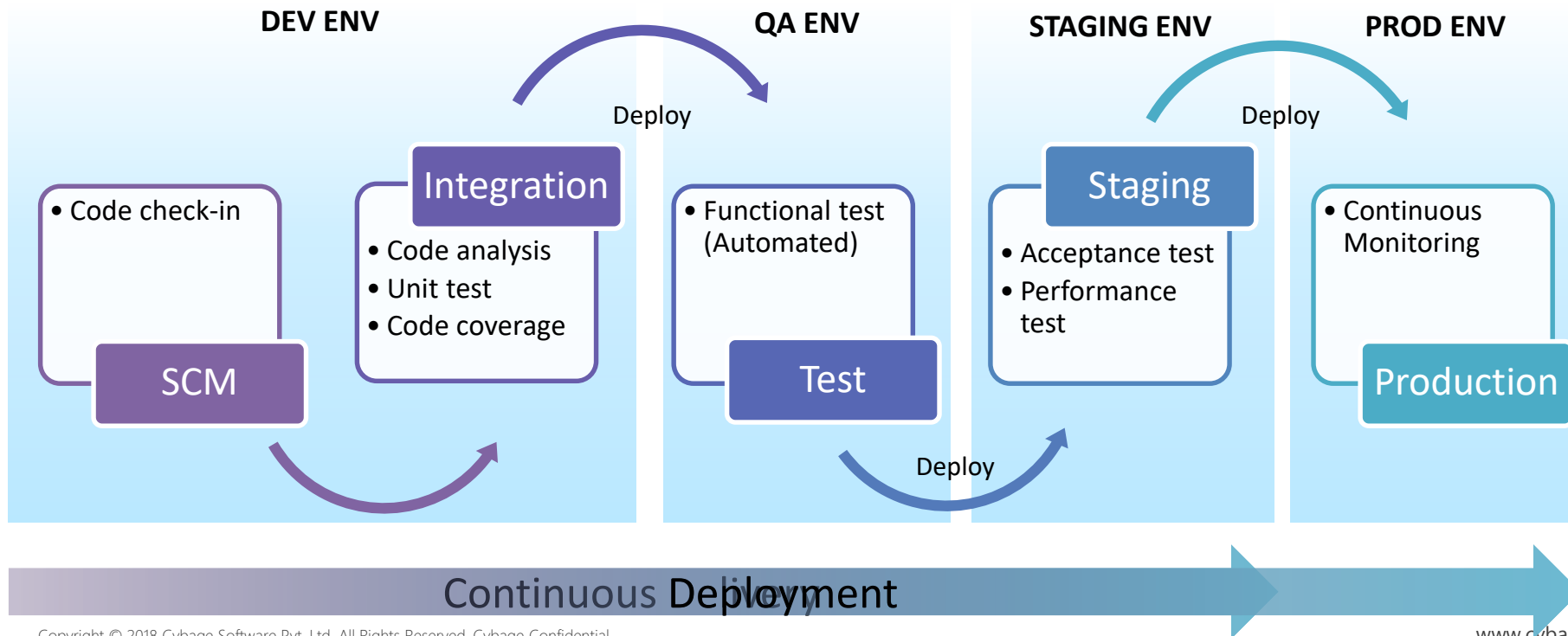
- From Idea to Release
- Works with your tools
- Develop with any Language
- Deploy on any Platform
- Integrations and Extensions

Continuous Integration



Continuous Delivery

- Delivering incremental changes to users.
- Release to production at any time.
- Reduce cost, time, and risk.





Client Info

- Practice: Finance
- Business: Financial Products and Consulting
- Project Size: 10-12



Legacy State

- Requirement and Project management - Using JIRA/Confluence.
- Source Code management (SCM) - Using Azure repos (Git).
- Static Code Analysis (SCA) - Not configured.
- Build and Deployment - Manual
- Testing
 - Jira for defect management.
 - Test cases in excel sheets.
- Traceability missing among requirements, code, test and build.



Challenges Faced

- Migration of Issues from Jira to Azure DevOps work item.



Cybage Solution

- End-to-End ALM solution using Azure DevOps Services.
- SCA using SonarQube.
- Build
 - Automated Build using Azure CI pipeline.
 - Unit Testcase and SonarQube analysis integration in CI pipeline
- Deployment
 - Deployment environment (DEV, QA, STAGING, PROD)
 - Automated deployment using Azure CD pipeline.
 - Soap UI integration in CD pipeline.
 - Mobile app deployment on Hockeyapp and Google Play Store.
- Testing
 - Test case management using Azure test plan.
- Traceability established among requirements, code, test and build.

Benefits of ALM

Efficiency

- Quality
- Productivity
- Speed



Benefits of ALM

Collaboration

- Effective communication
- Distinct role and responsibility
- Reduced dependency



Benefits of ALM

Transparency

- Dashboard and reports
- Auditability
- Team maturity



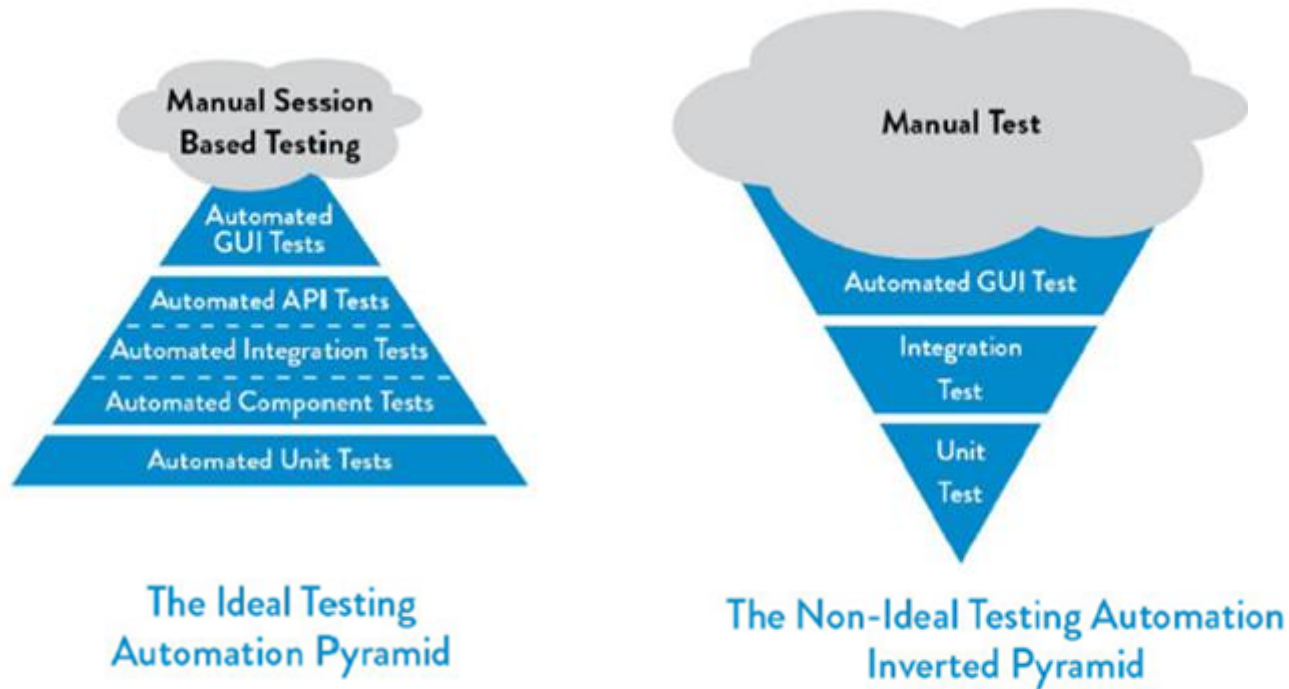
Benefits of ALM

Visibility

- Traceability
- Predictability
- Analytics



Ideal Vs. Non-Ideal Testing Pyramid



ALM/DevOps

5+
Year's
expertise

300+
Implementations
completed

Cybage Customers



Value from Innovation



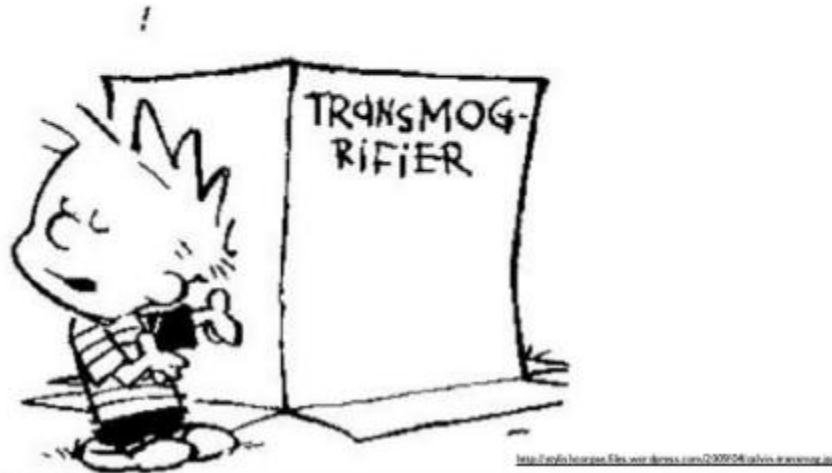
Cybage Centralized Server

List of configured tools	
Atlassian tools	JIRA / JIRA Agile/ Confluence BitBucket/ Bamboo / Fisheye & Crucible/Crowd Zephyr for JIRA/ Zapi for JIRA/
Other Licensed tools	SonarQube / Jenkins/ Misc
Microsoft TFS	100+ projects on Centralized server

Secured layer(Uniken) to provide access to customer.

ALM/DevOps tools ?

You buy this **DEVOPS** tool
and all your problems go away



Mindset Shift

Your Agile Testing Mindset

Instead of

We're here to find bugs ... or ensure requirements are met ... or to break the software ...



Think

How do we help the team succeed and perhaps how do we prevent defects from occurring in the first place?



Mindset Switch for Programmers

Instead of

We're here to code and throw it over the wall and then fix the bugs.



Think

What can I do to help create testable code and deliver the software successfully?



Reduce the Number of handoff

Automate Everything



Best Practice Documents

Management Information System

8110 | CybageMIS

Application LifeCycle Mgmt

Cybage ALM Vision:

- ALM objectives
- Governing
- During phases
- By strategising
- Beneficial to stakeholders

Organisation Client Project

Visibility Transparency Efficiency Collaboration

Management

Development

Design Testing

Requirement Analysis Process ALM Tools Deployment & Release

Benefits of ALM:

- Efficiency
 - Quality
 - Productivity
 - Speed
- Transparency
 - Team maturity
 - Auditability
 - Dashboard and reports
- Collaboration
 - Effective communication
 - Distinct role and responsibility
 - Reduced dependency
- Traceability
 - Predictability
 - Analytics
- Visibility
 - Traceability
 - Predictability
 - Analytics

The background of the slide is a grayscale photograph of a modern, multi-story office building. The building has a grid-like facade with many windows. A tall, dark evergreen tree is in the foreground on the left side. The word "CYBAGE" is visible in large letters on the upper part of the building's facade.

CYBAGE

A white rectangular box with a blue horizontal bar on its left side, containing the text "Thank You!".

Thank You!