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Implement DevOps, Continuous Integration and Continuous Deliver with Oracle Cloud

Automating Deployments to WebLogic on OCI



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Safe harbor statement



The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions.

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WebLogic Roadmap



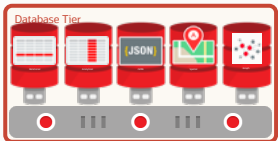
What's New & Where are we heading

The WebLogic Product Roadmap has continued to evolve



• Embrace Cloud Native

- Key trend in Application Development
- Modernize your existing applications without code changes
- Large toolset to embrace modern development automation (CI/CD)
- Enable Modern Monitoring and Logging tooling



• Micro Service Ready

- Easy adoption of Java Microservices with Helidon
- Hybrid applications: WebLogic + Helidon combined
- Coherence: interaction between microservices

• Converged Database

- Relational, Columnar, JSON, Spatial, ...

WebLogic, Coherence
14.1.1

Java EE 8, Jakarta EE 8

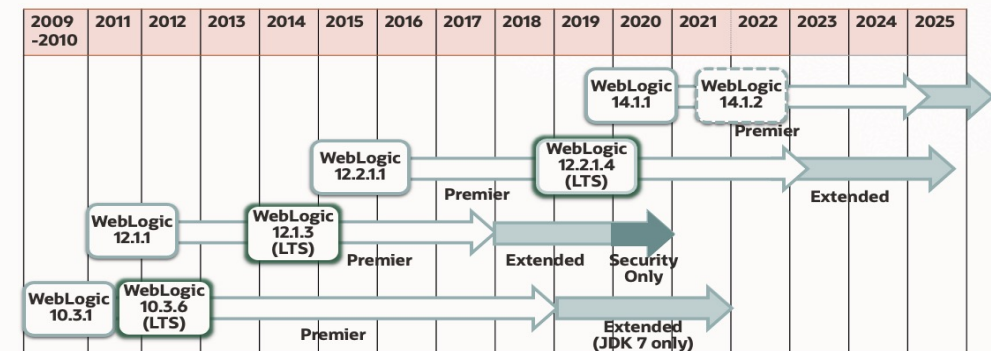
Java SE 8, Java SE 11



• Ongoing evolution in 14.1.x

- WebLogic Java EE 8 and Jakarta EE 8 Support
- Coherence, Tracing, GraalVM polyglot
- Java SE 8 and Java SE 11 Support
- Generic, slim and quick installers

• Extensive (long-term) Support Roadmap



Oracle WebLogic Server for Oracle Cloud Infrastructure

Deployment Models:

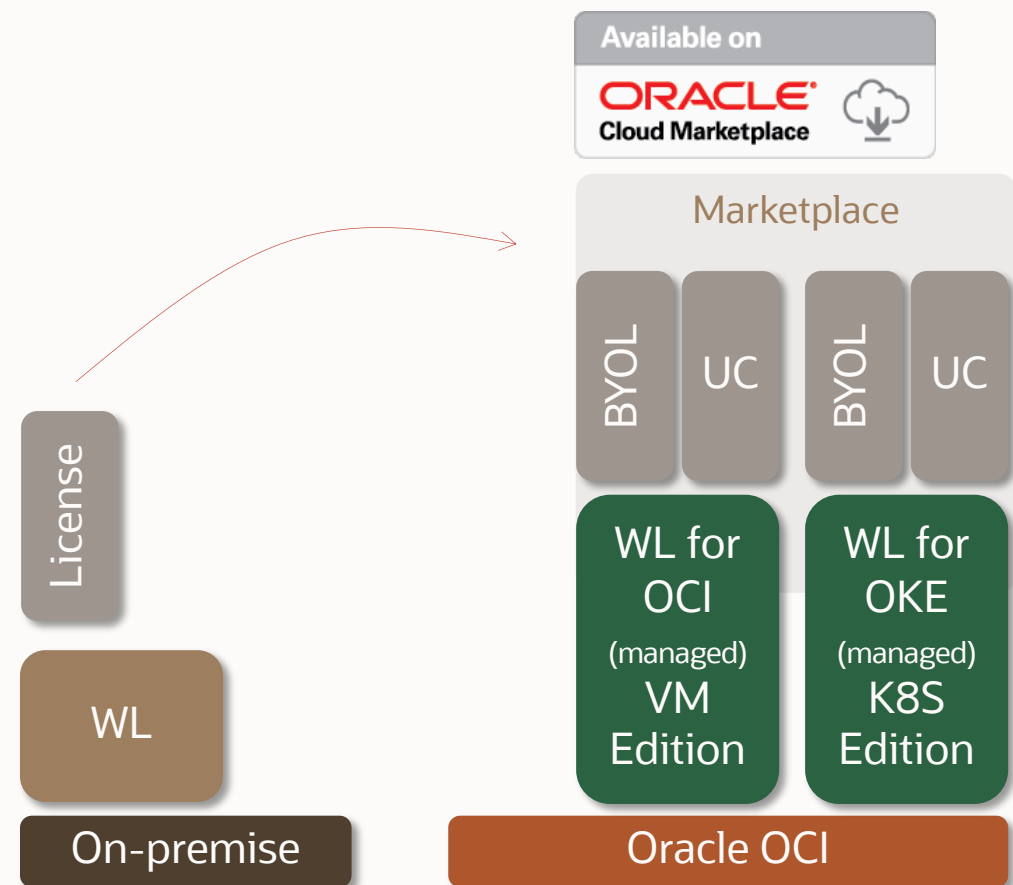
- WLS on Virtual Machines (Traditional)
- WLS on Kubernetes (Cloud Native)

Commercial Models:

- Bring Your Own License (BYOL)
- Universal Credit (UC)

Supports

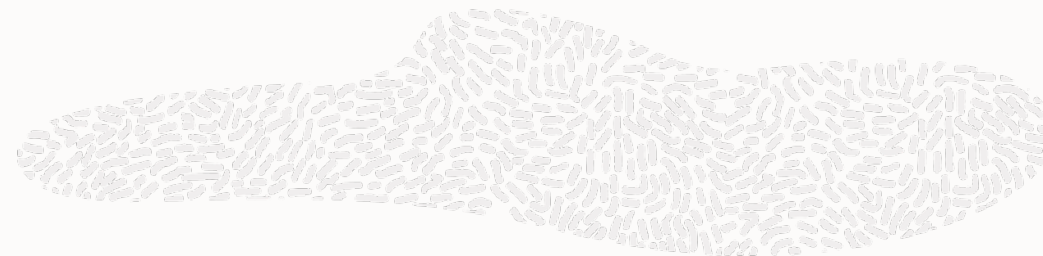
- WebLogic Server **11g** and **12c**
- Supports JRF and Non-JRF domains
- Supports ATP DB and OCI DB as infra DB



More information – [WLS for OCI](#), [WLS for OKE](#)



Oracle WebLogic Server for OCI Benefits



Repeatable: Full Stack Automation

- Provision in 15 min
- Automated patching
- Infrastructure as Code
- Standarization

Resilience: Operational Excellence

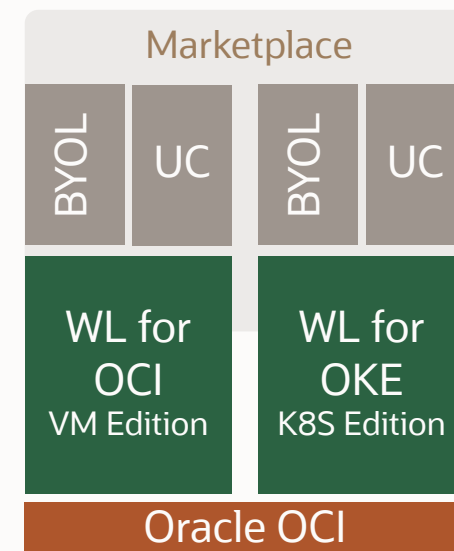
- Faster time to market
- Always secure platform
- Highly resilient architecture
- DevOps enabled
- Low-cost Disaster Recovery

Agility: Instant Access To Cloud Capacity

- Short lead time
- Self Service
- On demand consumption model
- Automated scaling

True Cost Control: Lower TCO

- Elastic configurations
- Lower Operational cost
- Existing license with BYOL
- Pay for what you use with UCM



UC : Cloud Economics

Constant Load:

6X Cheaper for 1 year

2X Cheaper over 5year

Improve your deal with
Variable Load:

10X Cheaper over 1 year

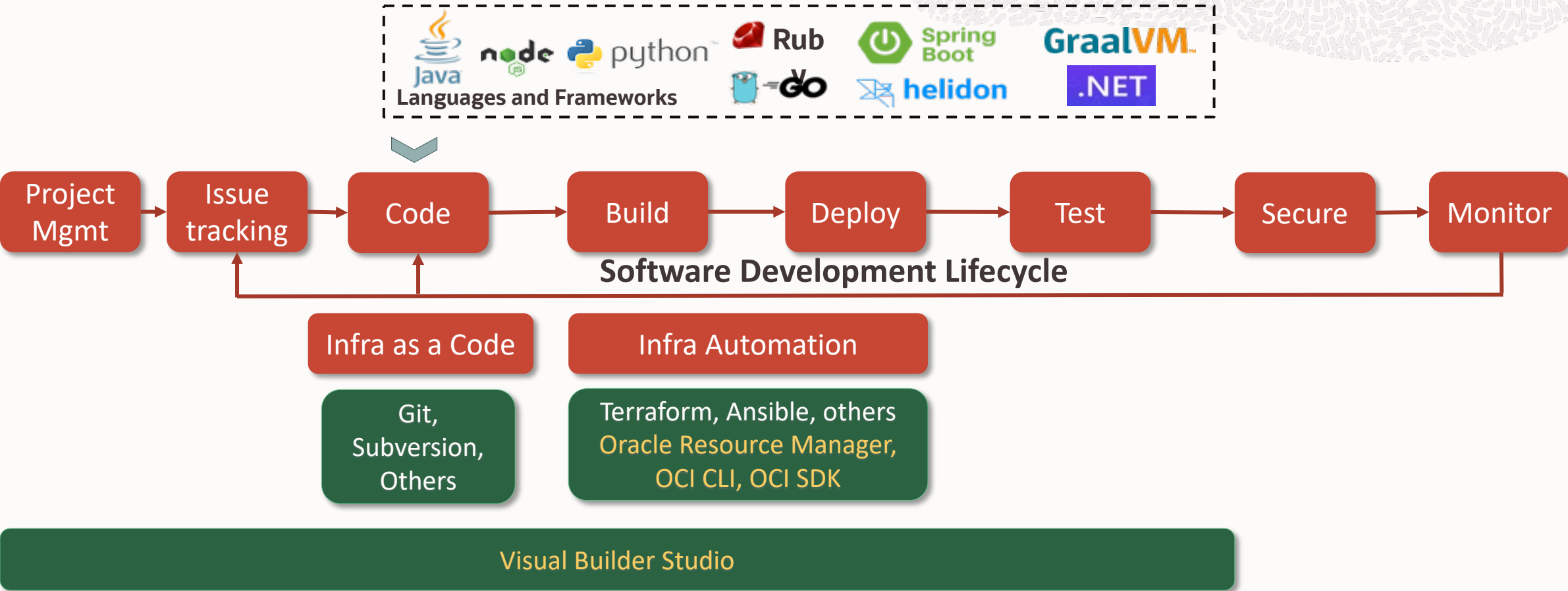
3.5X Cheaper over 5year

DevOps

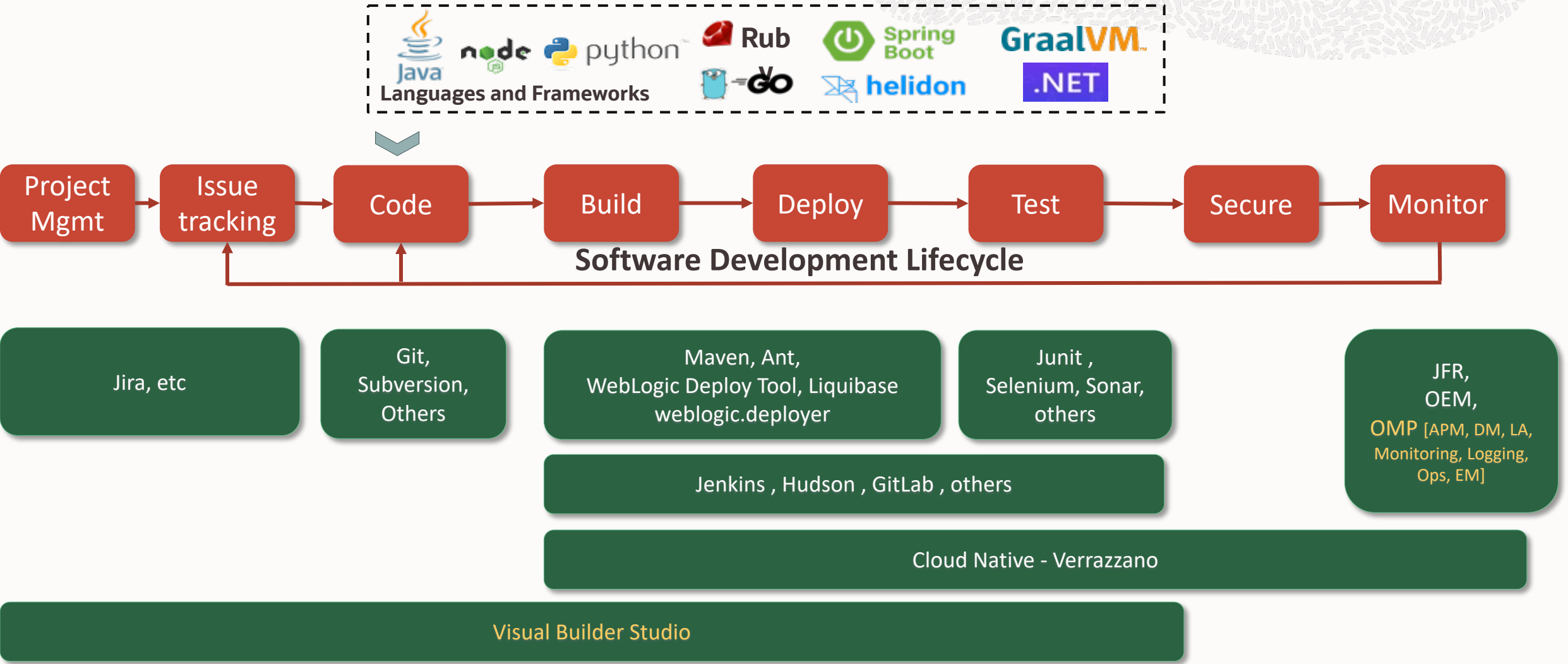


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What's New & Where are we heading

CI / CD – Infra Automation



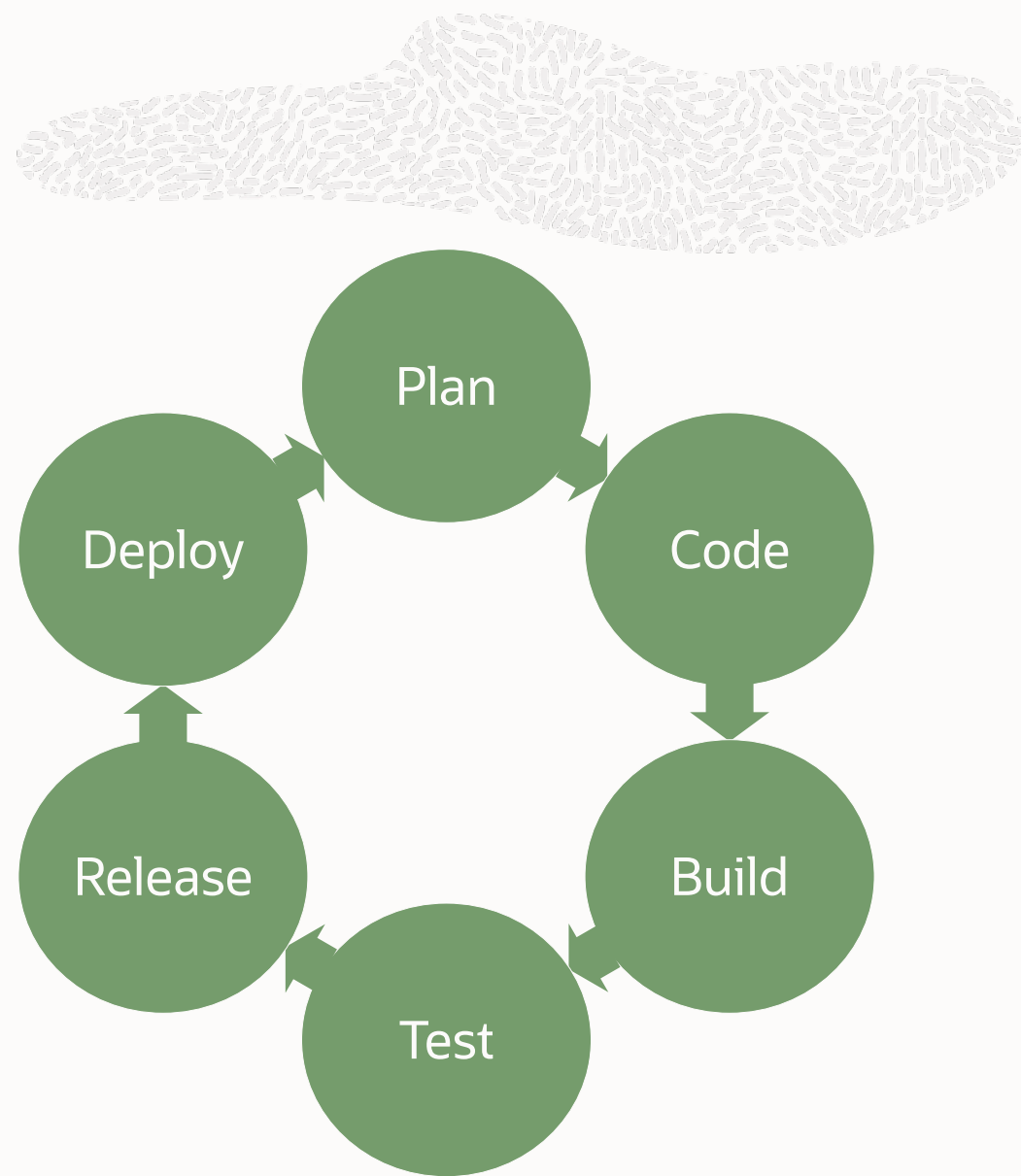
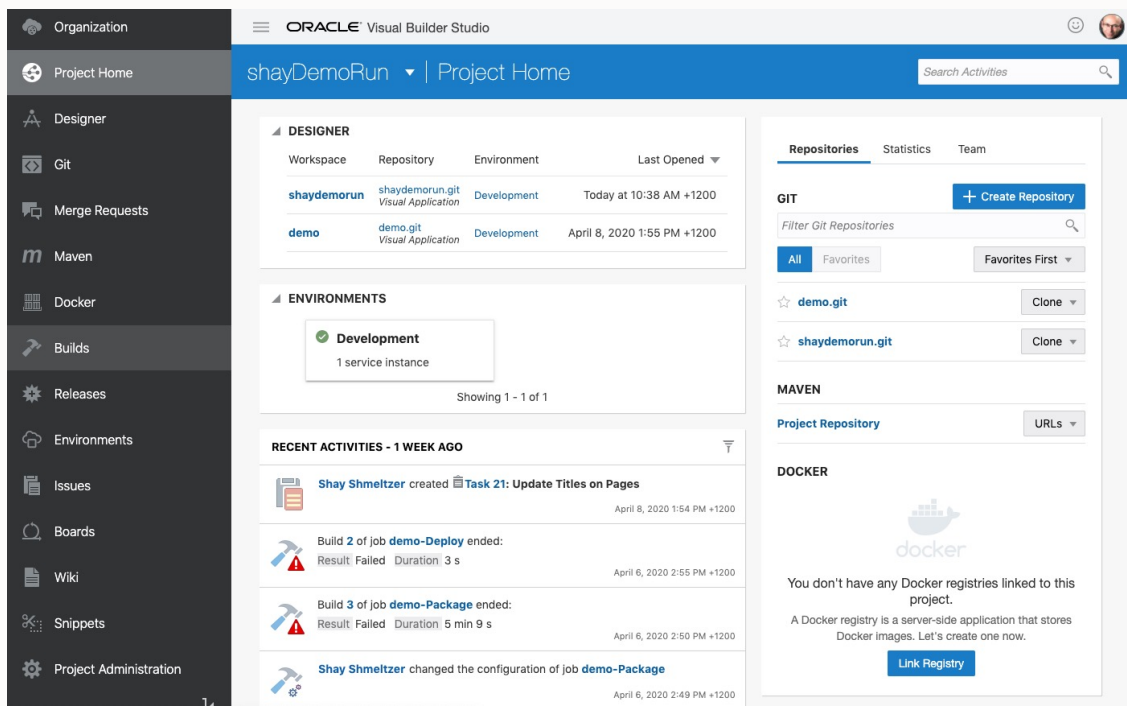
CI / CD – App Dev



Visual Builder Studio

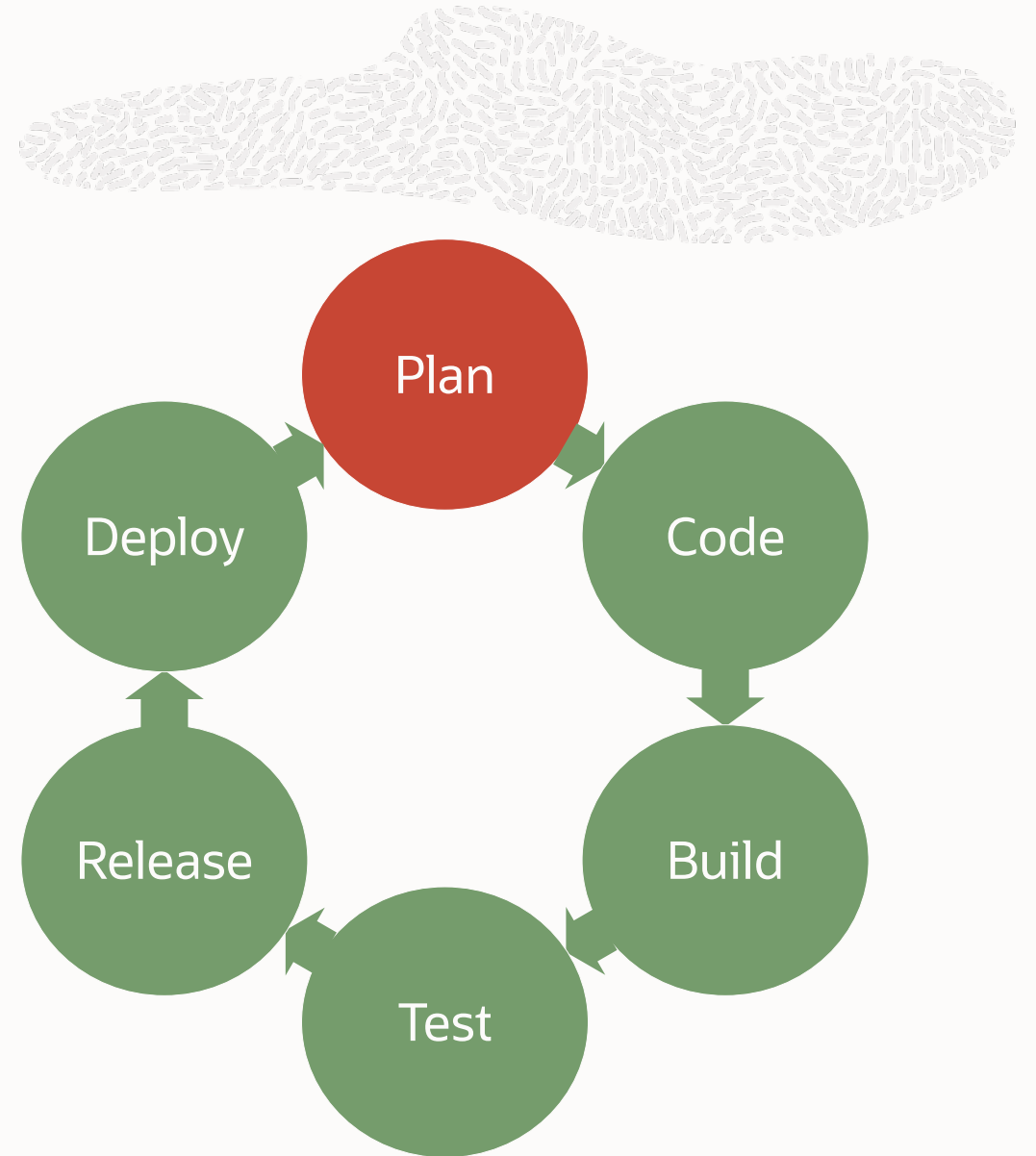
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Project Management & CI / CD Platform

Integrated collaborative DevOps cycle



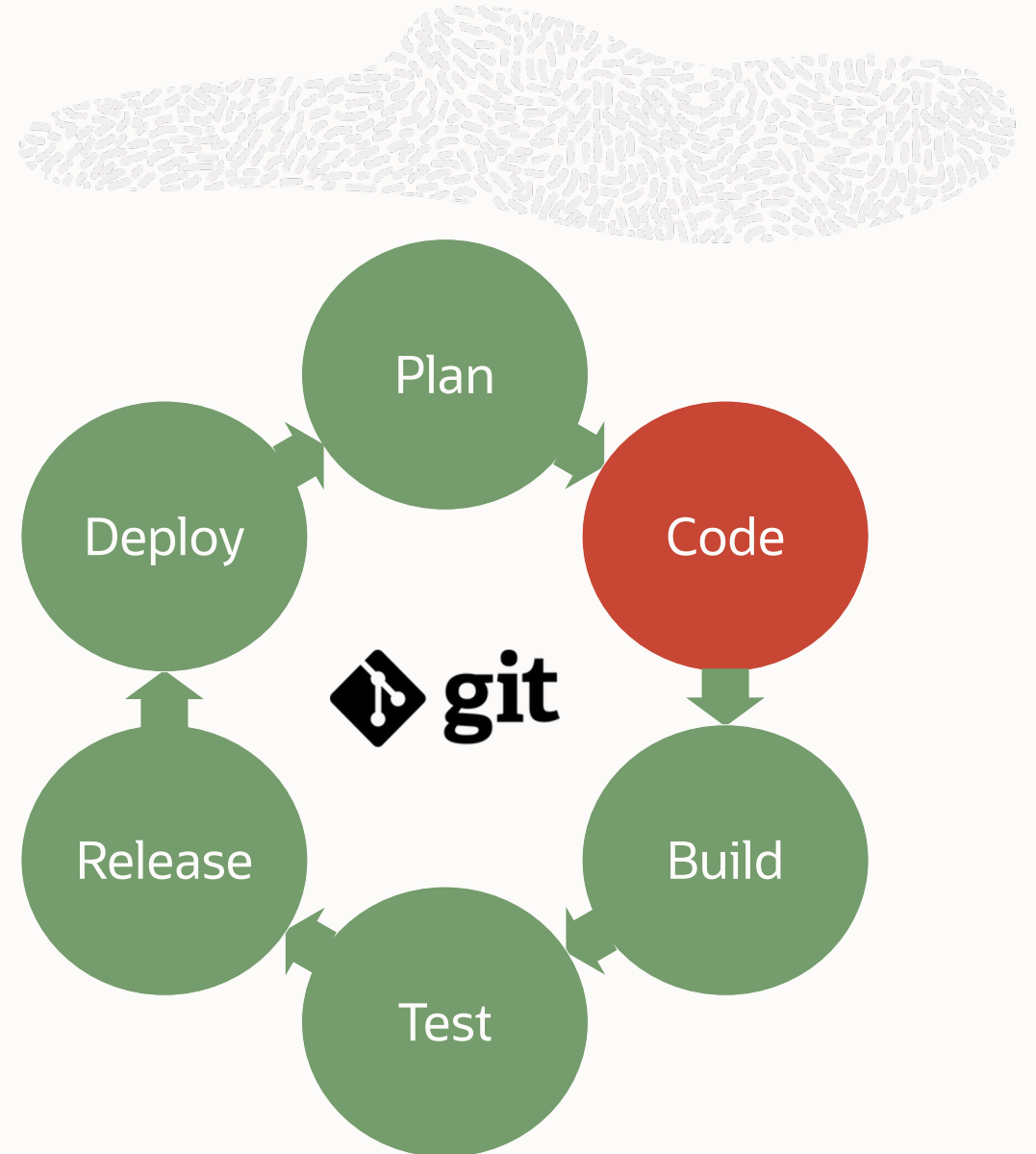
Team collaboration for planning

- Issue Tracking
- Agile Dashboards
- Progress charts
- Team reports
- Wiki



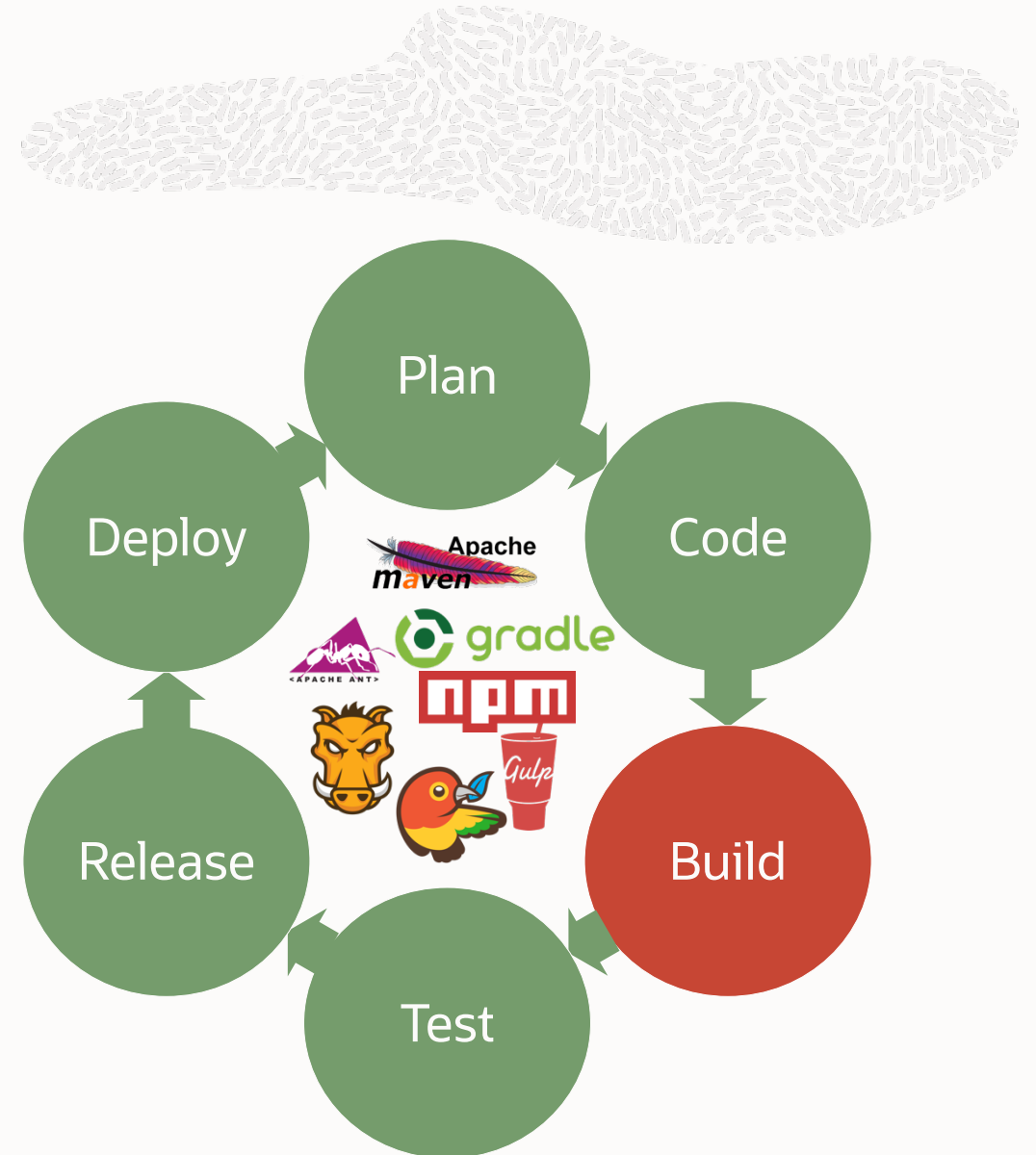
Manage coding process

- Git repositories
 - Private or shared
 - Protected branches
- Online Peer Code Review
 - Manage merge requests
 - Build as part of review



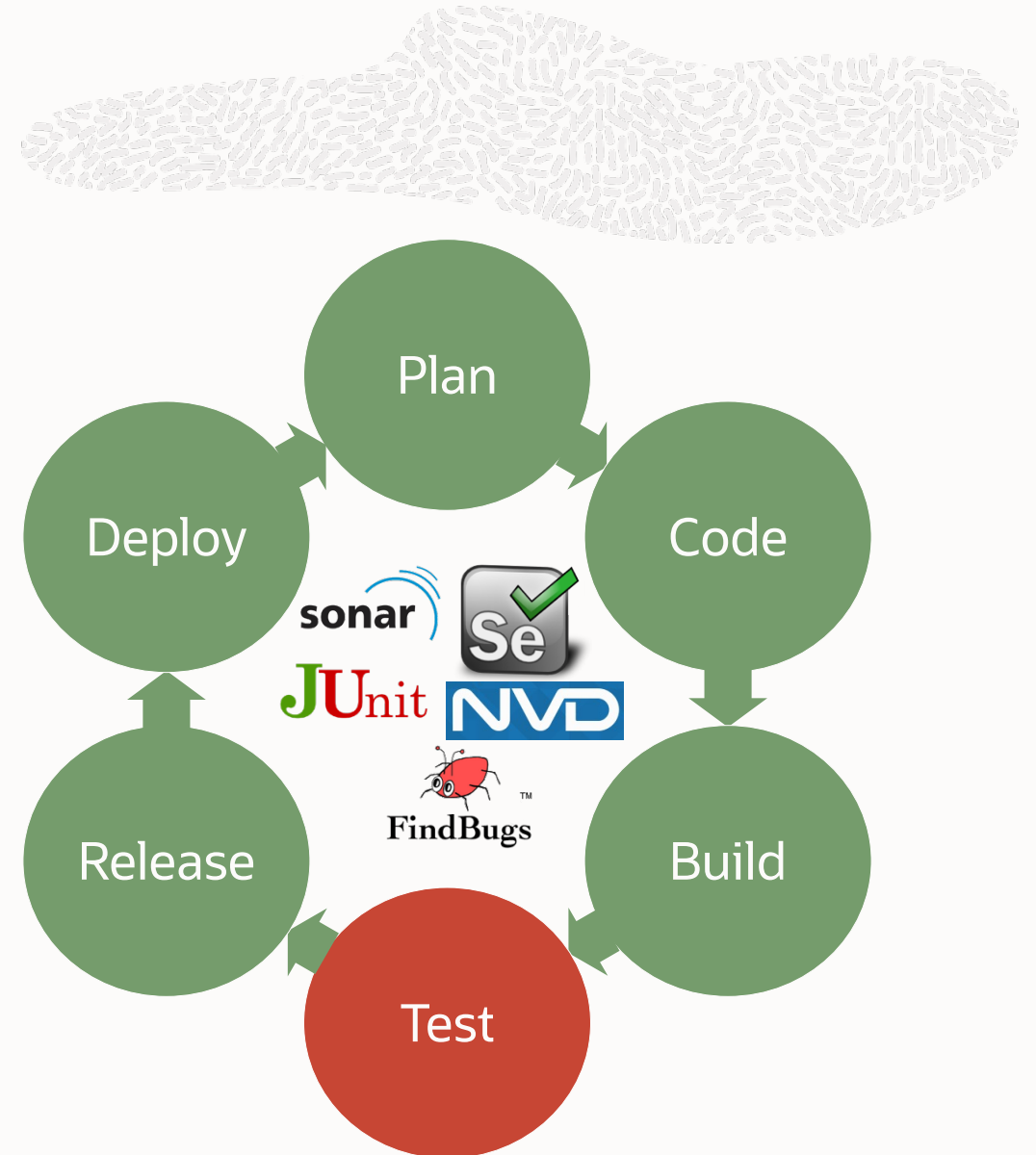
Build automation

- CI/CD pipelines
- Popular software build frameworks
 - Maven, Gradle, Ant
 - Npm
 - Grunt, Bower, Gulp
 - SQLcl, Oracle SOA, Oracle JDeveloper, Oracle Forms, Project Fn
 - Shell
- Automate provisioning
 - Docker, Kubernetes, Terraform, OCIcli



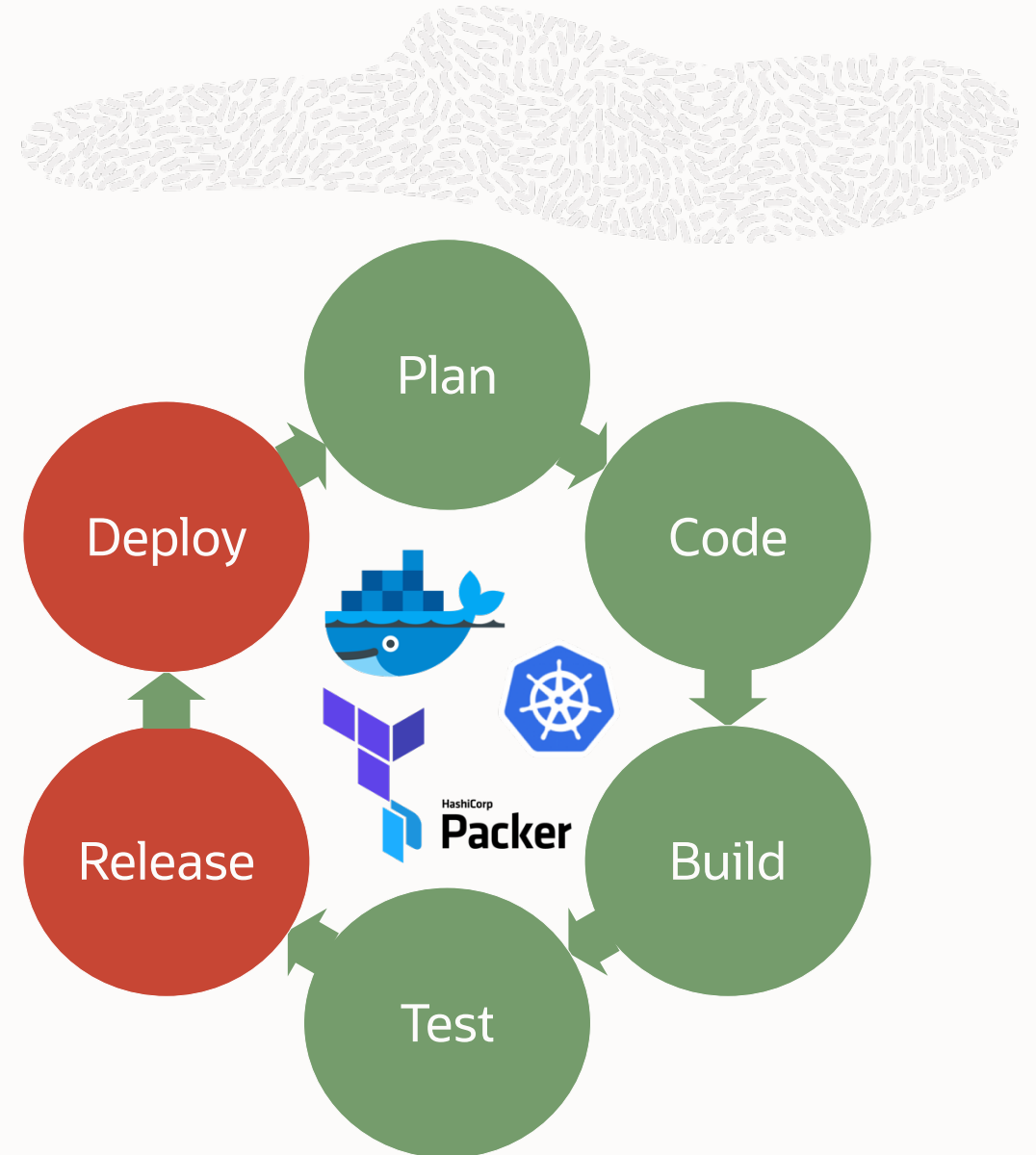
Testing automation

- Part of CI/CD Pipelines
- Testing
 - Selenium, Junit, Others
- Code Auditing
 - SonarQube, findbugs
- Dependency Vulnerability Analyzer
 - NVD review of libraries

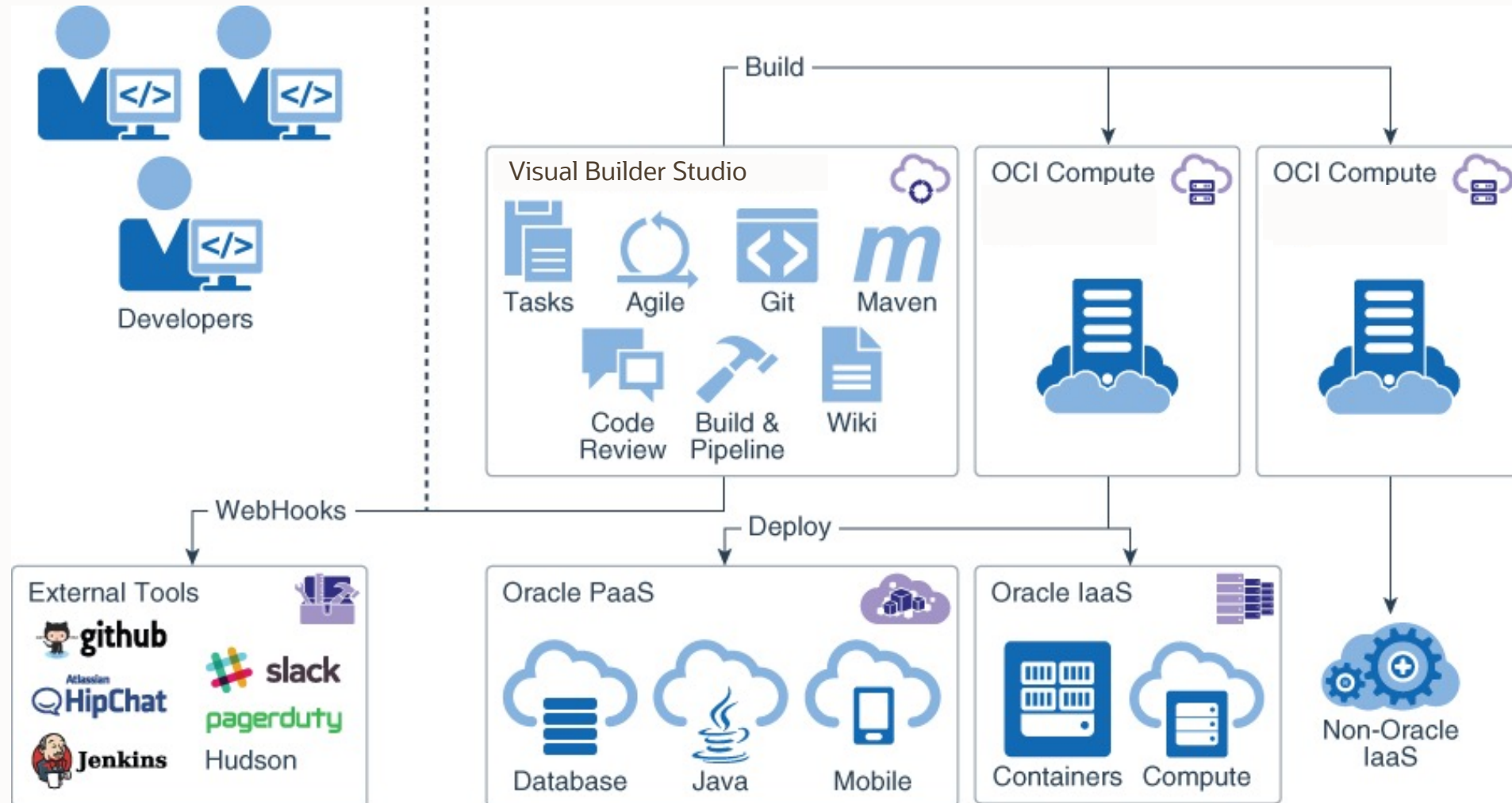


Deployment automation

- Deployment as part of CI/CD pipeline
- Provision environments
 - Terraform & Packer
 - Docker & Kubernetes
- Deploy to PaaS/IaaS/SaaS



Visual Builder Studio Architecture



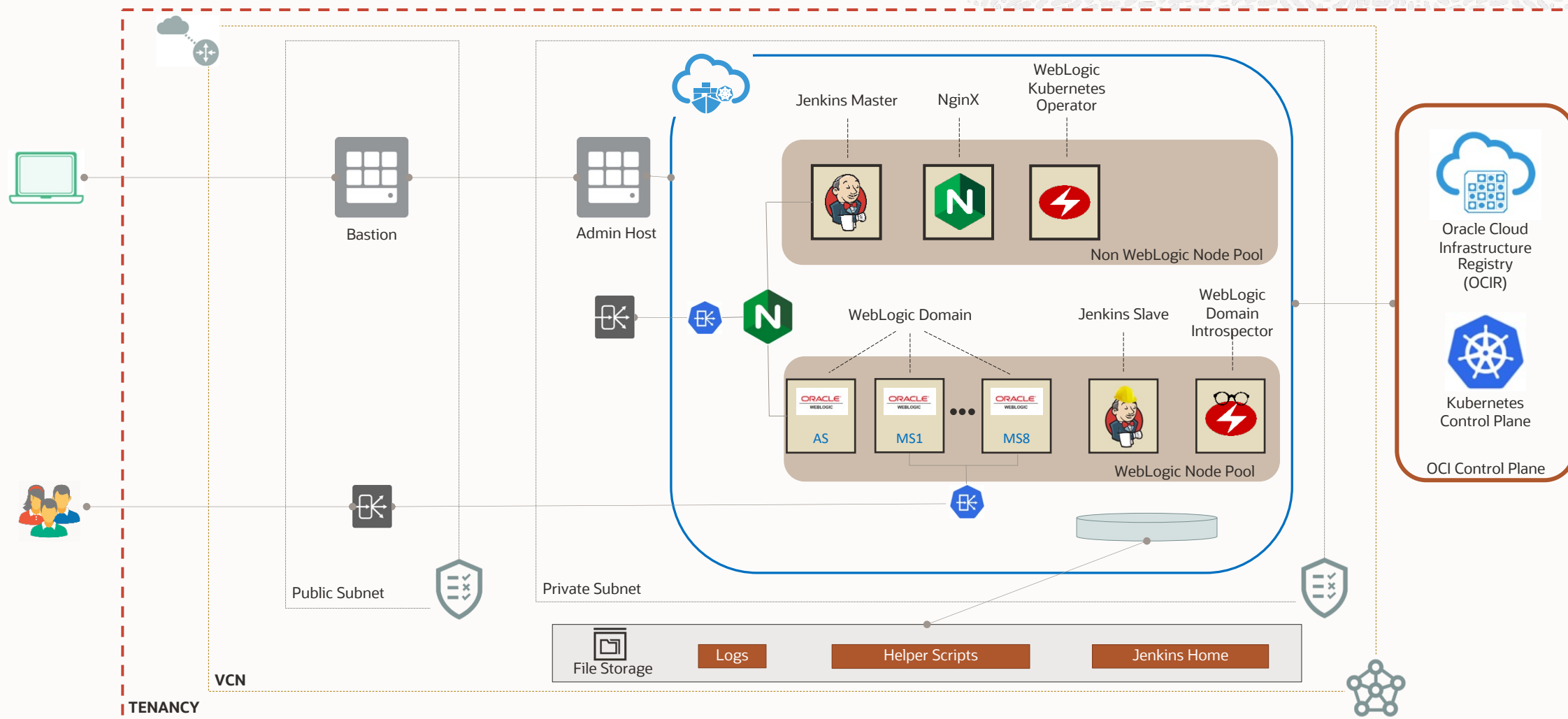
Visual Builder Studio Summary

- Integrated DevOps and Agile Platform - Visual Builder Studio
- Foundation service in the Oracle Cloud
- For various apps artifacts
- Mostly Free (only pay for build time)

DEMO

WebLogic for OKE

Topology




Upcoming Events : <http://bit.ly/AppDevWebcast>

Modernise WebLogic [Webinars](#)

Live webinars:


On-demand webinars:



Implement DevOps, Continuous Integration and Continuous Delivery

Date: May 11, 2021
Start Time: 10:00 BST/11:00 CEST/13:00 GST
Duration: 30 mins
[Read More](#)


[Register Now](#)



Overview of the Application Development portfolio and new features of WebLogic

Date: June, 2021
[Read More](#)


[coming soon](#)



WebLogic on Kubernetes : focus on deployment models and Open Source tooling

Date: July, 2021
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[coming soon](#)



In-memory data sharing between Microservices and traditional applications

Date: Sept, 2021
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[coming soon](#)



Cloud Native & Traditional App Dev Co-Existence with Verrazzano

Date: Oct, 2021
[Read More](#)

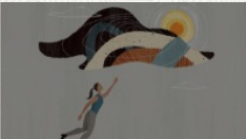
[coming soon](#)



WLS and Database migration

Date: Nov, 2021
[Read More](#)

[coming soon](#)




Modernizing Oracle Forms with Low-Code : APEX or Visual Builder?

Date: Dec, 2021
[Read More](#)

[coming soon](#)

Live webinars:


On-demand webinars:



Move On-Premises Applications to the Cloud: Overview of Available Options

Duration: 37 mins
[Read More](#)


[Watch Now](#)



Move On-Premises Applications to the Cloud Using Marketplace VMs

Duration: 39 mins
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The Right Development Paradigm: Navigating Between Monoliths and Microservices

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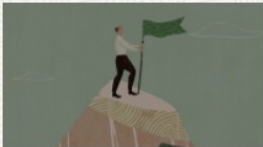
[Watch Now](#)



Run WLS Securely on Oracle Cloud

Duration: 30 mins
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Moving Applications to the Cloud: How to Migrate Your Databases

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Extend Your Applications with Microservices

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Q & A Thank You!



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