Consist's cloud services – technologies used

Over the past few years, the advancing digital transformation in companies has triggered a wave of IT modernization – from IT legacy systems to modern and cloud-based IT systems. We fully support you with the transformation of your IT into the cloud.

Consist's cloud services

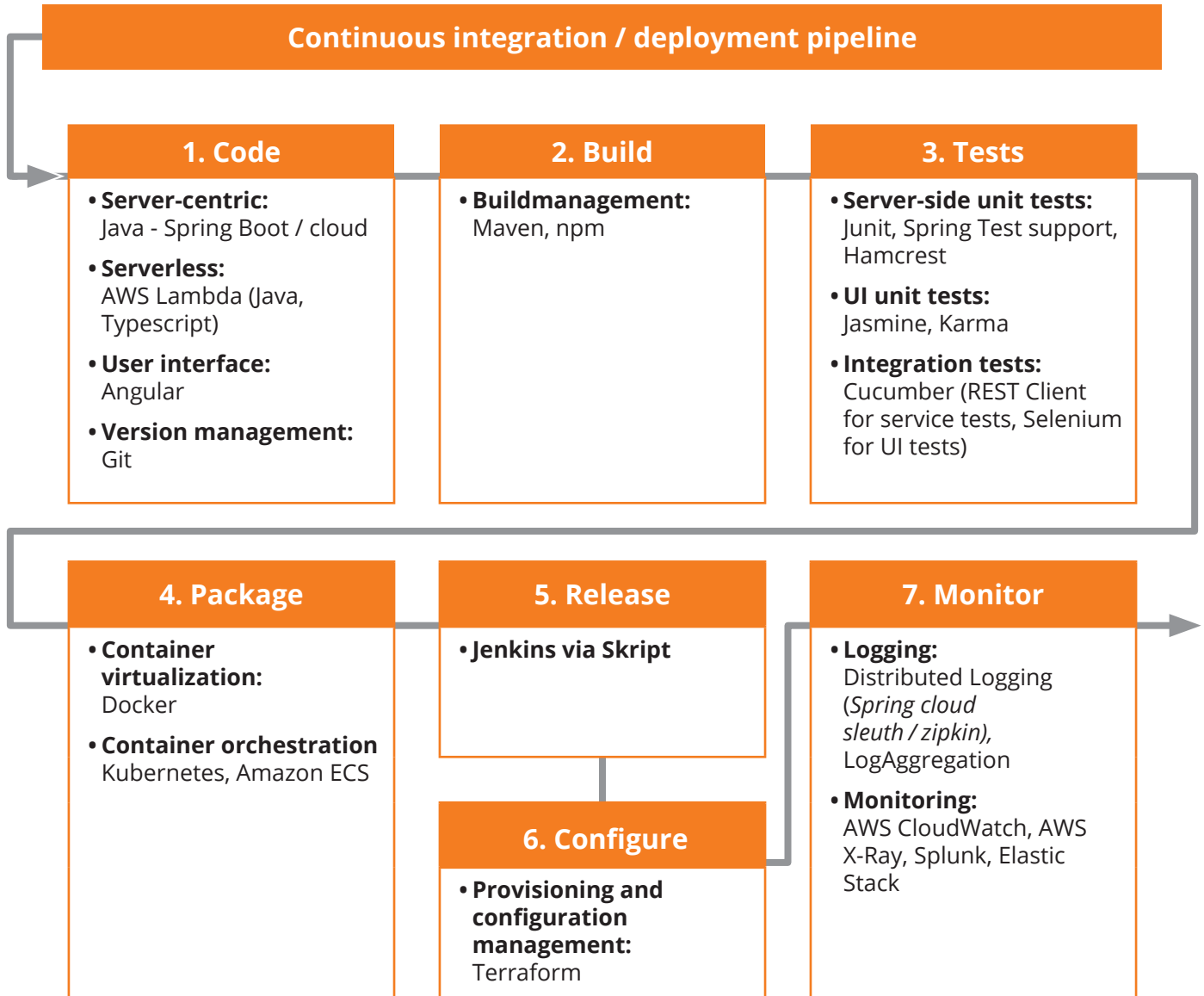| Cloud architecture and orchestration	Modernizing business applications
• **Operation of IT systems in hybrid or multi-cloud** • **Automation of processes**	• **Migration** • **Re-engineering** • **Individual extensions** • **Automation of specialist processes**
IT and data security in the cloud	**Corporate data in the cloud**
• **Reliable and compliant**	• **Uniform database for comprehensive analyses**

Technical focus in client projects

Consist has been successfully implementing cloud projects for many years. These client projects have been executed under the following framework conditions:

Cloud suppliers	Identity management	Agile software development
• **Amazon Web Services (AWS)** • **Microsoft Azure**	• **Okta** • **Amazon Cognito**	• **Collaboration:** Atlassian Confluence • **Project planning and monitoring:** Atlassian Jira

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DevOps technologies in cloud projects

We value DevOps methods in cloud projects, as they enable close cooperation between everyone involved and deliver fast, high-quality results. We provide technical support for this process via automated continuous-integration / deployment processes, based on the open source solution, Jenkins.

Continuous integration / deployment pipeline

1. Code

- **Server-centric:**
  Java - Spring Boot / cloud
- **Serverless:**
  AWS Lambda (Java, Typescript)
- **User interface:**
  Angular
- **Version management:**
  Git

2. Build

- **Buildmanagement:**
  Maven, npm

3. Tests

- **Server-side unit tests:**
  Junit, Spring Test support, Hamcrest
- **UI unit tests:**
  Jasmine, Karma
- **Integration tests:**
  Cucumber (REST Client for service tests, Selenium for UI tests)

4. Package

- **Container virtualization:**
  Docker
- **Container orchestration**
  Kubernetes, Amazon ECS

5. Release

- **Jenkins via Skript**

6. Configure

- **Provisioning and configuration management:**
  Terraform

7. Monitor

- **Logging:**
  Distributed Logging (*Spring cloud sleuth / zipkin),* LogAggregation
- **Monitoring:**
  AWS CloudWatch, AWS X-Ray, Splunk, Elastic Stack

Your contact:
Michael Meisner
+49 431 3993-671
meisner@consist.de

Your contact:
Dr. Thomas Müller-Lupp
+49 431 3993-565
mueller-lupp@consist.de

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