

Technologische Übersicht Los 3 - 5

| Technologie | Einsatzbereich | Los 3 | Los 4 | Los 5 |
|------------------------------|--------------------|-------|-------|-------|
| Java | Backendtechnologie | x | x | x |
| Spring | Backendtechnologie | x | x | x |
| Spring Boot | Backendtechnologie | x | x | x |
| Eclipse oder IntelliJ IDEA | Backendtechnologie | x | x | x |
| Apache APISIX | Backendtechnologie | | x | |
| Register Factory | Backendtechnologie | x | x | x |
| DevOps Factory | Backendtechnologie | x | x | x |
| Isyfact | Backendtechnologie | x | x | x |
| Kubernetes | Betriebsplattform | x | x | |
| Openshift Container Platform | Betriebsplattform | x | x | x |
| Docker, Docker Swarm | Betriebsplattform | x | x | x |
| Istio | Betriebsplattform | x | | |
| Vault | Betriebsplattform | x | | |
| Prometheus | Betriebsplattform | x | x | |
| Grafana | Betriebsplattform | x | x | |
| Elastic Search | Betriebsplattform | x | | x |
| Opensearch / Apache Lucene | Betriebsplattform | | x | |
| Kibana | Betriebsplattform | | | x |
| Logstash | Betriebsplattform | | | x |
| Apache Tomcat | Betriebsplattform | x | x | x |
| Automic (ehemals UC4) | Betriebsplattform | x | | |
| Oauth2.0 / OpenID Connect | Betriebsplattform | x | x | |
| Keycloak | Betriebsplattform | x | x | x |
| Windows | Betriebssystem | x | x | x |
| Linux (-Derivate) | Betriebssystem | x | x | x |
| Gitlab | CI/CD-Pipeline | x | x | x |
| ArgoCD | CI/CD-Pipeline | x | x | |
| HELM | CI/CD-Pipeline | x | x | |
| Artifactory | CI/CD-Pipeline | x | | |
| Harbor | CI/CD-Pipeline | x | | |
| Ansible | CI/CD-Pipeline | x | x | x |
| Maven | CI/CD-Pipeline | x | x | x |
| Gradle | CI/CD-Pipeline | x | | x |
| Apache Ant | CI/CD-Pipeline | | x | x |
| Puppet | CI/CD-Pipeline | | x | x |
| Tekton | CI/CD-Pipeline | | x | x |
| Jenkins oder GitLab CI | CI/CD-Pipeline | x | x | x |
| Atlassian Jira | Collaboration | x | x | x |
| Atlassian Confluence Wiki | Collaboration | x | x | x |
| Enterprise Architect | Collaboration | x | x | x |
| Draw.io | Collaboration | x | x | x |

| Technologie | Einsatzbereich | Los 3 | Los 4 | Los 5 |
|----------------------------------------|--------------------------|-------|-------|-------|
| Oracle DB | Datenspeicherung | x | x | x |
| MongoDB | Datenspeicherung | x | | |
| Redis | Datenspeicherung | x | x | |
| Apache Cassandra | Datenspeicherung | | x | |
| S3 Protokoll | Datenspeicherung | | x | |
| MySQL | Datenspeicherung | x | | x |
| Angular | Frontendtechnologie | x | x | x |
| JSF | Frontendtechnologie | x | | |
| Javascript | Frontendtechnologie | x | | |
| Typescript | Frontendtechnologie | x | | |
| Isyfact | Frontendtechnologie | x | x | |
| Apache MyFaces Tomahawk | Frontendtechnologie | | x | x |
| Kibana | Frontendtechnologie | | | x |
| PrimeNG | Frontendtechnologie | x | | |
| SOAP | Kommunikationsmethode | x | x | x |
| REST | Kommunikationsmethode | x | x | x |
| Messaging | Kommunikationsmethode | x | | |
| IBM MQ | Kommunikationsmethode | | x | |
| Apache Kafka | Kommunikationsmethode | x | x | x |
| gRPC | Kommunikationsmethode | x | | |
| Python | Scripting | x | | |
| Shellprogrammierung | Scripting | x | | |
| Event-driven Architecture | Spezifikation/Konzeption | x | x | |
| Microservice Architecture | Spezifikation/Konzeption | x | x | |
| Arc42 | Spezifikation/Konzeption | x | | |
| OpenAPI | Spezifikation/Konzeption | x | x | |
| AsyncAPI | Spezifikation/Konzeption | x | | |
| Hexagonale Architektur | Spezifikation/Konzeption | x | | |
| Axure | Spezifikation/Konzeption | | x | x |
| PlantUML | Spezifikation/Konzeption | x | | |
| AWS, Google Cloud, Azure, Oracle Cloud | Cloud-Computing | | x | x |
| Terraform | Cloud-Computing | | x | x |
| Cucumber | Test | x | x | x |
| Jmeter | Test | x | x | x |
| JUnit | Test | x | x | x |
| Ready API | Test | x | x | x |
| Selenium | Test | x | x | x |
| Testcafe | Test | x | x | x |
| CycloneDX | Security | | x | |
| DependencyTrack | Security | x | x | x |
| HashiCorpVault | Security | | x | |
| Splunk | Logging & Monitoring | | x | x |
| ELK Stack | Logging & Monitoring | x | | x |

| Technologie | Einsatzbereich | Los 3 | Los 4 | Los 5 |
|-----------------------------|----------------------|-------|-------|-------|
| Check MK | Logging & Monitoring | x | | x |
| Graylog | Logging & Monitoring | x | | x |
| OSCI-Transport | Protokolle | x | | x |
| XÖV-Standards | Protokolle | x | | x |
| Imap | Protokolle | x | | x |
| SMTP | Protokolle | x | | x |
| Hardware Sicherheitsmodul | HSM | x | | x |
| Timestamp Server (Ultimaco) | HSM | | | x |
| SDoT | HSM | | | x |
| Empolis IAS | | x | x | x |
| Postman | | x | | x |
| Postfix | | x | | x |
| Dovecot | | x | | x |
| Thunderbird | | x | | x |
| MobaXterm | | x | | x |
| WORM Medien | | | | x |
| JBoss Drools | | x | | x |
| Camunda | | x | | |