

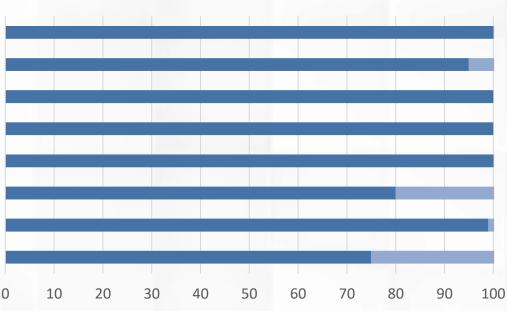
MISSION VISION

DLITES - DevOps Livesite Engineering and Support with Quadrant Resource

MISSION & VISION

DLITES is an end-to-end framework with a suite of tools and services which enables customers to establish a robust and concrete modernized DevOps, SRE practice using Microsoft Azure services.

DLITES handles all the aspects of DevOps, Live Site Engineering and Support system which enables customers to have a smooth deployment and monitoring processes.



DLITES Features

Support enabled services Monitoring and alerting mechanism Dashboards and reports Seamless tool intergration Scalability Deployment Automation Infrastructure cost reduction

Repository structure and code baseline

FEATURES

Migrating existing classic pipelines to YAML pipelines: Flexibility across platforms/projects, version control for pipelines, Single pipeline model for CI/CD, Reusability, multistage pipeline.

Implementing Security code scan: Helps in detecting various security vulnerability patterns, SQL injection, Cross-Site Scripting etc. in application.

Linking Azure Key vaults along with variable groups: Accessing secrets dynamically related to any sensitive information in pipelines in more secure & standard manner. **Dynamic pipelines instead of static pipelines:** Avoiding hardcoded values, accessing environment related configurations, Application specific configurations etc.. via variables and variable groups in centralized location.

Implementing Branching & Security policies: Enforcing proper branching and security policies for users.

Implementing Quality gates using Sonar Cloud: Measuring & analyzing the source code quality, reduces the risk of software development.

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Infrastructure provisioning (lac): Creating pipeline for setting up and configuring infrastructure for different environments with minimal manual intervention using ARM template , terraform etc.

Validating code changes using Deployment slots : Validate webapp changes in staging deployment slot before swapping it with production slot. Addressing Security issues from Software Composition Analysis (SCA): Identifying the security concerns from packages in code like related artifacts, registry, licenses, compliance data using tools like OWASP & others.

Automating custom test cases through Azure test plan: Automating required custom test cases to validate the application after deployment or release process.

IMPLEMENTATION PROCESS

14-18 Days

- Assess and evaluate the repository and code base.
- Prioritize scope and build a plan that addresses value, impact, and risk.
- Prototype build, deploy, and migrate work patterns.

60 Days

- Develop build and deploy setup.
- Complete automation of deployments using scripts.
- Continuous Integration and Continuous Deployment model.

120-180 Days

- End to End automation using tools and scripts.
- Enablement of dashboards and monitoring tools.
- Setup a SRE process to provide continuous monitoring and release support.

PRINCIPLES AND PRACTICES

• Release planning development • Paas deployment • Auto Failover, scaling, & DR • Sprint planning • Mono-repo & Multi-repo • Mono-repo & Multi-repo • Mono-repo & Multi-repo • Security requirements • Unit testing & code coverage • Infrastructure as code (IaC) • Modern service management • Capacity planning • Version control • Configuration management • Secure DevOps ChatOps • UX architecture design • Security static code scan • Gregative planning • Secure DevOps ChatOps • Demos & Retrospectives • Suid parallel & serial pipeline • Shift-left Covernance Governance Continuous quality ☆ ☆ ☆ Quality Shift-left Governance Test Compliance Shift right • Compliance • Suid parallel & serial pipeline • Shift right & standards • Juomation & Shift right	Continuous planning	Continuous in	tegration $\overset{\Phi}{\nabla}$	Continuous del	ivery	Continuous o	
Continuous quality Trequirements testing & standards automation & audits testing Continuous security Image: Continuous security Image: Continuous security Image: Continuous security Security architecture Access & identity management Application & Security infrastructure Secure operations Governance, risk & compliance Continuous collaboration Image: Collaborative culture Alignment & autonomy Kanban collaboration Wiki & Teams collaboration ChatOps collaboration Feature Team & SRE Continuous improvement Image: Continuous improvement Image: Continuous collaboration Deployment Mean time to Change fail Continuous Value stream	 Lean product discovery Lean product definition Release planning Sprint planning Agile requirements Security requirements Architecture design Capacity planning UX architecture design Threat modeling Prioritization & estimation 	 Test-driven development (TDD) Microservices & container development Mono-repo & Multi-repo Unit testing & code coverage Version control Git pull request Trunk-based policies Security static code scan CredScan Open Source software (OSS) component compliance 		Secure Infrastructure deployment IaaS deployment PaaS deployment Shared services Infrastructure as code (IaC) Change management Configuration management Blue-green deployments Canary deployments Feature flags		 Telemetry & monitoring Application performance monitoring Auto Failover, scaling, & DR Modern service management Secure access & application data High availability, security, cost & performance advisory Secure DevOps ChatOps Shift-right testing Secrets management Governance & GDPR support Automation & AlOps 	
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