

Abbreviations & Acronyms Reference (SDLC Autonomous Agent System)

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General SDLC & Process

- **SDLC** — Software Development Life Cycle
- **PRD** — Product Requirements Document
- **ADR** — Architecture Decision Record
- **MVP** — Minimum Viable Product
- **SLO** — Service Level Objective
- **SLA** — Service Level Agreement
- **RCA** — Root Cause Analysis
- **HITL** — Human-In-The-Loop
- **KB** — Knowledge Base
- **DAG** — Directed Acyclic Graph
- **IaC** — Infrastructure as Code
- **SRE** — Site Reliability Engineering / Engineer

Development & Collaboration

- **API** — Application Programming Interface
- **CI/CD** — Continuous Integration / Continuous Deployment (or Delivery)
- **PR** — Pull Request
- **QA** — Quality Assurance
- **PM** — Product Manager / Product Management
- **UX** — User Experience
- **UI** — User Interface
- **Repo** — Repository (e.g., GitHub repository)
- **KB** — Knowledge Base
- **SBOM** — Software Bill of Materials
- **OSS** — Open Source Software
- **ADR** — Architecture Decision Record

Testing & Quality

- **TDD** — Test Driven Development
- **BDD** — Behavior Driven Development
- **E2E** — End-to-End (testing)
- **SAST** — Static Application Security Testing
- **DAST** — Dynamic Application Security Testing
- **Fuzzing** — Automated input testing with unexpected/random values

Security & Compliance

- **SecOps** — Security Operations
- **OPA** — Open Policy Agent
- **SBOM** — Software Bill of Materials
- **SAST** — Static Application Security Testing
- **DAST** — Dynamic Application Security Testing
- **CVE** — Common Vulnerabilities and Exposures
- **MITRE ATT&CK** — Matrix of adversary tactics & techniques
- **RBAC** — Role-Based Access Control

Deployment & Infra

- **IaC** — Infrastructure as Code
- **VM** — Virtual Machine
- **K8s** — Kubernetes
- **ECS** — Elastic Container Service (AWS)
- **Terraform** — IaC tool
- **Pulumi** — IaC tool
- **Canary** — Partial deployment to test before full rollout
- **SBOM** — Software Bill of Materials
- **SLI** — Service Level Indicator
- **MTTR** — Mean Time to Recovery

Observability & Ops

- **APM** — Application Performance Monitoring
- **OTel** — OpenTelemetry
- **RUM** — Real User Monitoring
- **MTTF** — Mean Time to Failure
- **MTTR** — Mean Time to Repair/Recover
- **CI** — Continuous Integration (sometimes confused with Confidence Interval in stats)
- **CDN** — Content Delivery Network

Miscellaneous

- **LLM** — Large Language Model
 - **NLP** — Natural Language Processing
 - **JSON** — JavaScript Object Notation
 - **YAML** — YAML Ain't Markup Language
 - **SDK** — Software Development Kit
 - **CLI** — Command Line Interface
 - **GUI** — Graphical User Interface
 - **VCS** — Version Control System
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→ This list should evolve as the system grows. Next step: link this reference in the **team wiki** and auto-generate cross-links whenever an acronym appears in artifacts.