Document 2: Technical Team Roles & Infrastructure Stacks
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1. Developers
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Responsibilities:
- Develop and deploy software applications.
- Create and manage APIs and middleware.
- Code reviews and collaboration with infrastructure teams.
Processes:
- Agile development, version control, CI/CD pipelines.
- Unit, integration, and system testing.
Infrastructure Stacks:
- AWS, Azure, GCP, Docker, Kubernetes, and microservices frameworks.
2. Testers / Quality Assurance
Responsibilities:
- Test plan design, manual and automated testing.
- Defect management and performance/security testing

- Integration with CI, automated testing suites, quality gates.

Processes:

- Virtualized test environments, cloud testing tools, ELK/Splunk monitoring.
3. Infrastructure Engineers
Responsibilities:
- System deployment, network design, capacity planning.
- Maintenance and security of infrastructure.
Processes:
- Infrastructure as Code (Terraform, Ansible), monitoring, maintenance windows.
Infrastructure Stacks:
- On-premise, hybrid infrastructures, network devices, storage solutions.
4. DevOps Engineers
Responsibilities:
- Manage CI/CD pipelines and automation.
- Monitor systems and handle incident responses.
Processes:
- Pipeline management, container orchestration, security audits.
Infrastructure Stacks:
- Cloud CI/CD, container registries, and monitoring/logging tools.
5. Additional Roles
- Security Engineers: Oversight of security architecture and threat management.
- Database Administrators: Optimize databases and ensure data integrity.
6. Infrastructure Stacks Overview
Overview:

Infrastructure Stacks:

- Cloud Platforms: AWS, Azure, GCP.
- Containerization: Docker and Kubernetes.
- CI/CD: Jenkins, GitLab CI, CircleCI.
- IaC: Terraform, CloudFormation.
- Monitoring & Logging: Prometheus, Grafana, ELK, Splunk.