Resilience & Recovery

Field	Description
Goal	Restore & stay operational
Example Layers / Key Tools	HA, Backups, Chaos Testing, DR Plans `Kubernetes`, `Linkerd`, `HAProxy`, `pgBackRest`, `Velero`, `Arweave`, `Chaos Mesh`, `Gremlin`, `Terraform`, `Ansible`
Sub-Components	Load balancing, replication, snapshot restore
Core Capabilities	High availability, failover, DR testing
AI / Agent Support	Codex for infra heal scripts
Security Controls	Backup encryption, redundant storage
Testing Focus	Chaos experiments, restore validation
Compliance / Policy Link	ISO 22301 (Business Continuity)
Metrics	Uptime ≥ 99.9 %, RTO ≤ 15 min
Evidence	Snapshot hashes, RCA docs
CI/CD Gate	Post-deploy verification
Automation	`Ansible`, `Terraform`, `Chaos Mesh`
Owner	SRE / Ops Team
Maturity	AI-assisted self-healing
Update Cadence	Quarterly DR drill