

Top-25 Features for Banks & Financial Institutions

CNCF-native · Open-source (Aenix/Cozystack)

Cozystack — secure, sovereign, and Kubernetes-native foundation for banks and fintechs.

FEATURE	WHY IT MATTERS
Digital sovereignty (no hyperscaler dependency)	You control core infrastructure and roadmap without surprise price/policy changes from public clouds.
Data control & localization	Meets regulatory mandates for local storage/processing of sensitive data and banking secrecy.
Regulatory compliance-ready posture	Access policies, audit trails, encryption, and DR runbooks accelerate audits and certifications.
Multi-region clusters & failure domains	Business continuity with geo-resilience and clear BCP/DR objectives.
Air-gapped deployments	Operates in isolated perimeters with no external internet dependency.
Single plane for VMs and Kubernetes (via KubeVirt)	One RBAC/policy/tooling model for microservices and legacy VMs—lower ops complexity.
Managed PostgreSQL with PITR → S3	Fast point-in-time recovery for fraud/errors; predictable RPO/RTO.
S3-compatible object storage	Universal storage for logs, reports, artifacts, and ML models with versioning/retention.
Velero DR for K8s/PV	Repeatable app-level backup/restore and cross-cluster recovery drills.
Built-in observability (metrics/logs/traces)	Faster incident RCA, transparent SLI/SLO, audit-friendly reporting.
Service catalog (K8s/VM/DB/S3/LB/VPN/HTTP-cache)	Standardized, self-service platform services reduce ticket volume and time-to-deliver.
SSO (OIDC/SAML), AD/LDAP integration	Centralized enterprise identity and access management.
Network policies and network fabric	Fine-grained traffic segmentation and encrypted service-to-service comms; reduced lateral movement.
Encryption in transit/at rest; Secrets/KMS	Aligns with internal security policies and regulator expectations.
GPU/vGPU (MIG/time-slicing) for Pods and VMs	Cost-efficient GPU sharing across risk/anti-fraud/AML/ML workloads.
Connection Cards & deployment wizards	Simplifies onboarding with ready endpoints/DSNs—less cognitive load for teams.
Resource presets & quotas	Cost control and SLO guard-rails per department/project.
White-label portal	Bank-branded UX; platform feels native to the organization.
Billing API / usage export	Transparent showback/chargeback across business lines.
GitOps by default (Flux)	Auditable, PR-driven changes and reproducible environments
Immutable nodes (no SSH drift)	Safer upgrades and predictable node configuration—fewer “snowflakes.”
Managed TCP/L7 Load Balancers	Reliable public exposure of services with TLS and rate/route policies.
Managed VPN service	Secure private links to branches/partners and hybrid perimeters.
Open Source forever (CNCF Project)	No vendor lock-in; community-driven core and transparent codebase.
Compelling price vs. public clouds and DIY	Lower TCO: no hyperscaler surprises and no year-long internal platform build.