

SavMoney Digital Payments Platform

Server Setup Implementation Checklist

Document Date: October 28, 2025 | CONFIDENTIAL



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Action Item	Start Date	End Date	Team Responsible	Person In-charge	Sign off
Pre-Deployment Planning	28/10/2025	04/11/2025	SavMoney Management		
○ Choose deployment model (on-premise vs cloud vs hybrid)			SavMoney Management Team		
○ Procure servers/cloud storage from Raxio			SavMoney Procurement / Raxio		
○ Design DNS architecture			SavMoney IT Team		
○ Plan network topology (VLANs, ACLs)			SavMoney IT / Raxio Network Team		
○ Define security requirements aligned to Bank of Uganda (BoU) regulations			SavMoney Compliance Team		
○ Ensure PCI-DSS compliance requirements are documented			SavMoney Compliance Team		
Initial Setup	05/11/2025	08/11/2025	Raxio / SavMoney		
○ Unpack and physically install the server in the designated rack			Raxio / SavMoney Installation Team		

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○ Connect power cables and network cables to the server			Raxio / SavMoney Installation Team		
○ Power on the server and ensure it passes POST (Power-On Self-Test)			Raxio / SavMoney Installation Team		
○ Access the server's BIOS/UEFI settings and configure boot order			Raxio / SavMoney Installation Team		
○ Update BIOS/UEFI firmware to the latest version			Raxio / SavMoney Installation Team		
Network Segmentation	09/11/2025	15/11/2025	SavMoney IT / Raxio		
○ Configure Public VLAN (DMZ) for load balancers, WAF, reverse proxies			SavMoney IT / Raxio Network Team		
○ Configure Application VLAN for microservices and application servers			SavMoney IT / Raxio Network Team		
○ Configure Database VLAN for MySQL/Postgres/Redis			SavMoney IT / Raxio Network Team		
○ Configure Integration VLAN for external connectors (banks, MNOs)			SavMoney IT / Raxio Network Team		
○ Configure Management VLAN for bastion, monitoring and admin endpoints			SavMoney IT / Raxio Network Team		
Firewall & Access Controls	16/11/2025	20/11/2025	SavMoney Security Team		
○ Secure bastion host with MFA and key-based SSH			SavMoney Security Team		
○ Configure UFW firewall rules			SavMoney Security Team		

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○ Set default deny incoming policy			SavMoney Security Team		
○ Allow traffic from load balancers to application ports (8080)			SavMoney Security Team		
○ Allow SSH from office IP ranges only (port 22)			SavMoney Security Team		
○ Allow ports 80/443 for public access			SavMoney Security Team		
○ Enable and test firewall configuration			SavMoney Security Team		
TLS & SSL Configuration	21/11/2025	25/11/2025	SavMoney Security Team		
○ Obtain wildcard public TLS certificate for *.savmoney.com			SavMoney Security Team		
○ Configure Let's Encrypt for public services			SavMoney Security Team		
○ Set up internal CA for service-to-service mTLS (Istio)			SavMoney Security Team		
○ Configure TLS minimum version 1.2+ (prefer 1.3)			SavMoney Security Team		
○ Set up certificate rotation automation using cert-manager			SavMoney DevOps Team		
Operating System Installation & Hardening	26/11/2025	02/12/2025	SavMoney Installation Team		
○ Install base OS on all servers			SavMoney Installation Team		
○ Apply OS hardening using Ansible playbooks			SavMoney DevOps Team		
○ Enable SELinux			SavMoney Security Team		

Action Item	Start Date	End Date	Team Responsible	Person In-charge	Sign off
○ Configure kernel hardening			SavMoney Security Team		
○ Set up automated patching			SavMoney DevOps Team		
○ Configure non-root user accounts			SavMoney Installation Team		
○ Implement RBAC with least privilege principle			SavMoney Security Team		
OpenShift Cluster Deployment	03/12/2025	15/12/2025	SavMoney DevOps Team		
○ Deploy 3 master nodes (Control plane HA)			SavMoney DevOps Team		
○ Deploy minimum 2 worker nodes (scale as needed)			SavMoney DevOps Team		
○ Deploy infrastructure nodes for registry, monitoring, logging			SavMoney DevOps Team		
○ Configure OpenShift Container Registry			SavMoney DevOps Team		
○ Install and configure Istio service mesh for mTLS, tracing and telemetry			SavMoney DevOps Team		
○ Set up Prometheus Operator for cluster metrics			SavMoney DevOps Team		
○ Configure container runtime (CRI-O/containerd)			SavMoney DevOps Team		
○ Install Podman, Buildah and Skopeo for local image tooling			SavMoney DevOps Team		
○ Create savmoney-prod namespace/project			SavMoney DevOps Team		
○ Create savmoney-staging namespace/project			SavMoney DevOps Team		
○ Configure namespace resource quotas			SavMoney DevOps Team		

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○ Set up RBAC policies per namespace			SavMoney Security Team		
Database Deployment (MySQL Cluster)	16/12/2025	25/12/2025	SavMoney Database Team		
○ Deploy MySQL cluster for transactional workloads (16 vCPU, 64GB RAM, 5TB SSD)			SavMoney Database Team		
○ Configure RAID10 backed storage			Raxio / SavMoney Infrastructure Team		
○ Set up master-replica topology			SavMoney Database Team		
○ Configure replication monitoring			SavMoney Database Team		
○ Test database failover procedures			SavMoney Database Team		
○ Configure slow query logging			SavMoney Database Team		
PostgreSQL Deployment	26/12/2025	30/12/2025	SavMoney Database Team		
○ Deploy PostgreSQL for reporting/analytics			SavMoney Database Team		
○ Configure appropriate storage			Raxio / SavMoney Infrastructure Team		
○ Set up backup procedures			SavMoney Database Team		
Redis Cluster Deployment	31/12/2025	05/01/2026	SavMoney DevOps Team		

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○ Deploy Redis cluster as StatefulSet (8 vCPU, 16GB RAM per node)			SavMoney DevOps Team		
○ Configure for sessions and hot-cache			SavMoney DevOps Team		
○ Set up persistence configuration			SavMoney DevOps Team		
○ Configure cluster replication			SavMoney DevOps Team		
Message Systems Deployment	06/01/2026	15/01/2026	SavMoney DevOps Team		
○ Deploy 3-node RabbitMQ cluster (8 vCPU, 16GB RAM per node)			SavMoney DevOps Team		
○ Deploy 3-node Apache Kafka cluster (8 vCPU, 16GB RAM per node)			SavMoney DevOps Team		
○ Configure message retention policies			SavMoney DevOps Team		
○ Set up monitoring for queue depths and lag			SavMoney DevOps Team		
Object Storage Deployment	16/01/2026	20/01/2026	SavMoney DevOps Team		
○ Deploy MinIO or configure S3-compatible storage			SavMoney DevOps Team		
○ Set up buckets for documents and backups			SavMoney DevOps Team		
○ Configure access policies			SavMoney Security Team		
○ Test upload/download functionality			SavMoney DevOps Team		
Logging & Search Infrastructure (ELK Stack)	21/01/2026	30/01/2026	SavMoney DevOps Team		
○ Deploy Elasticsearch cluster			SavMoney DevOps Team		

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○ Deploy Logstash for log processing			SavMoney DevOps Team		
○ Deploy Kibana for visualization			SavMoney DevOps Team		
○ Configure log retention policies			SavMoney DevOps Team		
○ Set up log aggregation from all services			SavMoney DevOps Team		
Application Tier - Microservices Deployment	01/02/2026	20/02/2026	SavMoney Development Team		
○ Deploy Authentication & Authorization Service (OAuth2, JWT)			SavMoney Development Team		
○ Deploy Transaction Processing Service			SavMoney Development Team		
○ Deploy KYC Management Service			SavMoney Development Team		
○ Deploy Order Management Service			SavMoney Development Team		
○ Deploy Settlement Engine			SavMoney Development Team		
○ Deploy Commission Engine			SavMoney Development Team		
○ Deploy Notification Service (SMS/Email)			SavMoney Development Team		
○ Deploy USSD Manager			SavMoney Development Team		
○ Configure microservices using Helm charts or OpenShift Operators			SavMoney DevOps Team		

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○ Set up service-to-service authentication			SavMoney Security Team		
○ Configure API gateways			SavMoney DevOps Team		
○ Set resource limits and requests for all pods			SavMoney DevOps Team		
○ Configure horizontal pod autoscaling			SavMoney DevOps Team		
○ Set up health checks and readiness probes			SavMoney DevOps Team		
Frontend Application Deployment	21/02/2026	28/02/2026	SavMoney Development Team		
○ Deploy React/Next.js web application			SavMoney Development Team		
○ Configure Flutter mobile app backend connections			SavMoney Development Team		
○ Set up CDN for static assets			SavMoney DevOps Team		
○ Configure CORS policies			SavMoney Security Team		
Monitoring & Observability Setup	01/03/2026	10/03/2026	SavMoney DevOps Team		
○ Configure Prometheus metrics collection			SavMoney DevOps Team		
○ Set up metrics for request rates, latency, error rates (p50/p95/p99)			SavMoney DevOps Team		
○ Monitor DB replication lag and slow queries			SavMoney Database Team		
○ Monitor CPU/memory/disk/network per node/pod			SavMoney DevOps Team		

Action Item	Start Date	End Date	Team Responsible	Person In-charge	Sign off
○ Configure service discovery			SavMoney DevOps Team		
○ Create infrastructure dashboards in Grafana			SavMoney DevOps Team		
○ Create application performance dashboards			SavMoney DevOps Team		
○ Create database performance dashboards			SavMoney DevOps Team		
○ Create security monitoring dashboards			SavMoney Security Team		
○ Configure dashboard access controls			SavMoney Security Team		
Alerting Configuration	11/03/2026	15/03/2026	SavMoney DevOps Team		
○ Configure Alertmanager			SavMoney DevOps Team		
○ Integrate with PagerDuty for P1/P2 escalations			SavMoney DevOps Team		
○ Set up SLI/SLO configurations (API response p95 < 500ms, TPS thresholds)			SavMoney DevOps Team		
○ Configure alert routing rules			SavMoney DevOps Team		
○ Test alert delivery mechanisms			SavMoney DevOps Team		
Backup & Disaster Recovery Setup	16/03/2026	25/03/2026	SavMoney DevOps Team		
○ Configure AES-256 encryption at rest			SavMoney Security Team		
○ Enable TDE for databases where supported			SavMoney Database Team		
○ Verify TLS 1.2+/mTLS for data in transit			SavMoney Security Team		

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○ Set up HSM for production key management			SavMoney Security Team		
○ Configure MySQL full backup jobs (automated)			SavMoney Database Team		
○ Configure PostgreSQL dump jobs			SavMoney Database Team		
○ Set up Redis backup procedures			SavMoney DevOps Team		
○ Configure object storage backups			SavMoney DevOps Team		
○ Set up backup encryption			SavMoney Security Team		
○ Configure backup sync to cloud (AWS S3/Azure/GCP)			SavMoney DevOps Team		
○ Set up Ansible + OpenShift CronJobs for backup orchestration			SavMoney DevOps Team		
○ Configure backup node (4 vCPU, 8GB RAM, 10TB storage)			Raxio / SavMoney Infrastructure Team		
○ Set up backup retention policies			SavMoney DevOps Team		
○ Test backup restoration procedures			SavMoney DevOps Team		
Disaster Recovery Implementation	26/03/2026	05/04/2026	SavMoney DevOps Team		
○ Set up DR site (cloud-based warm-standby on AWS/Azure/GCP)			SavMoney DevOps Team		
○ Configure automated failover triggers			SavMoney DevOps Team		
○ Document RTO: 15 minutes for critical systems			SavMoney Management Team		

Action Item	Start Date	End Date	Team Responsible	Person In-charge	Sign off
○ Document RPO: 15 minutes to 24 hours (tiered)			SavMoney Management Team		
○ Create DR runbooks			SavMoney DevOps Team		
○ Test failover procedures			SavMoney DevOps Team		
CI/CD Pipeline Setup	06/04/2026	15/04/2026	SavMoney DevOps Team		
○ Set up GitHub Actions or GitLab CI pipelines			SavMoney DevOps Team		
○ Configure build pipelines for microservices			SavMoney DevOps Team		
○ Set up automated testing in pipelines			SavMoney QA Team		
○ Configure container image building			SavMoney DevOps Team		
○ Set up container image scanning (Trivy/Clair)			SavMoney Security Team		
○ Configure image signing			SavMoney Security Team		
○ Integrate container registry with OpenShift			SavMoney DevOps Team		
○ Configure OpenShift Pipelines or ArgoCD			SavMoney DevOps Team		
○ Set up GitOps workflows			SavMoney DevOps Team		
○ Configure Blue-Green deployment strategy			SavMoney DevOps Team		
○ Configure Canary deployment strategy			SavMoney DevOps Team		
○ Test automated rollback procedures			SavMoney DevOps Team		
Infrastructure as Code (IaC)	16/04/2026	20/04/2026	SavMoney DevOps Team		

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○ Create Terraform modules for infrastructure provisioning			SavMoney DevOps Team		
○ Create Ansible playbooks for configuration management			SavMoney DevOps Team		
○ Version control all IaC			SavMoney DevOps Team		
○ Test IaC in staging environment			SavMoney DevOps Team		
○ Document IaC usage and dependencies			SavMoney DevOps Team		
Production Environment Deployment	21/04/2026	30/04/2026	SavMoney Infrastructure Team		
○ Deploy app servers: min 2 for HA (16 vCPU, 64GB RAM, 500GB SSD RAID10)			Raxio / SavMoney Infrastructure Team		
○ Deploy monitoring/logging node: 8 vCPU, 16GB RAM, 1TB SSD			Raxio / SavMoney Infrastructure Team		
○ Configure OAuth2 + JWT for APIs with short-lived tokens			SavMoney Security Team		
○ Set up RBAC for platform (least privilege)			SavMoney Security Team		
○ Configure admin access via bastion host			SavMoney Security Team		
○ Implement MFA for all administrative access			SavMoney Security Team		
○ Set up audit logging for all access			SavMoney Security Team		
○ Configure containers to run as non-root			SavMoney Security Team		
○ Implement image signing verification					