**Cloud Strategy Overview**

*Cloud Strategy Overview – Telco Cloud Migration Project*

**1. Purpose**

To outline the strategic direction, goals, and principles for migrating telco network components to a cloud environment, ensuring scalability, resilience, security, and service innovation.

**2. Strategic Objectives**

* **Modernize** telecom infrastructure to support 5G, IoT, and real-time analytics.
* Improve **operational agility** and reduce CAPEX/OPEX through cloud adoption.
* Ensure **regulatory compliance** while managing **data sovereignty** risks.
* Enhance **customer experience** through faster service delivery and uptime.

**3. Scope of Cloud Migration**

| **Component** | **Migration Approach** | **Target Cloud** |
| --- | --- | --- |
| OSS/BSS | Replatform (PaaS) | Azure |
| CRM | SaaS Replacement + API Integration | Salesforce Cloud |
| NEM | Lift & Shift | AWS |
| Billing | Microservices Containerization | GCP |
| Data Lakes | Build from scratch | Azure Data Lake |
| APIs | Rebuild as Cloud-native | AWS API Gateway |

**4. Cloud Architecture Approach**

* **Hybrid Cloud** model leveraging private and public cloud.
* Use of **Kubernetes** for container orchestration.
* **CI/CD pipelines** for faster releases (GitHub Actions + Terraform).
* Secure **multi-zone deployments** with Disaster Recovery in separate regions.

**5. Security Strategy**

* **Zero Trust Security Architecture**.
* Encryption in-transit and at-rest (AES-256, TLS 1.3).
* Cloud-native firewalls and WAFs.
* Role-Based Access Control (RBAC) and SSO integration.
* Security Incident Monitoring via SIEM (e.g., ELK stack).

**6. Cloud Operating Model**

* **Cloud Center of Excellence (CCoE)** to oversee cloud governance.
* Clear **segregation of duties** between IT Ops and DevOps.
* Establish **FinOps team** to manage cloud costs and usage.
* Runbook automation and observability with Prometheus and Grafana.

**7. KPIs & Success Metrics**

| **KPI** | **Target** |
| --- | --- |
| Cloud Adoption | 95% infra migrated by March 2026 |
| Uptime SLA | ≥ 99.95% |
| Cost Savings | ≥ 30% by end of FY2026 |
| Deployment Time | Reduction from 2 weeks → 1 day |
| Compliance Audits Passed | 100% |

**8. Cloud Governance Framework**

* **Change Control Board (CCB)** for any infra changes.
* Quarterly cloud architecture reviews.
* Monthly compliance and usage audits.
* Use of **Cloud Tags & Policies** for resource accountability.

**9. Roadmap Snapshot**

| **Phase** | **Timeline** | **Milestone** |
| --- | --- | --- |
| Assessment | Aug 2025 | Asset Inventory Complete |
| Pilot | Sep–Oct 2025 | CRM Migration UAT |
| Core Migration | Nov–Jan 2026 | OSS/BSS on Azure |
| Optimization | Feb–Mar 2026 | SLA Benchmarks Met |
| Handover | March 2026 | Transition to Cloud Ops Team |