Monitoring & Alerting Checklist

How to Migrate from On-Prem to AWS

High-level guide to move workloads from on-premises infrastructure to AWS cloud services.

1. Assessment Phase

- Audit all applications, databases, and servers

- Identify dependencies and network flows

- Use AWS Application Discovery Service or Migration Evaluator

2. Migration Strategies

Rehost: Lift & shift (no changes)

Replatform: Minor cloud tweaks (e.g. RDS)

Repurchase: Move to SaaS (e.g. Office 365)

Refactor: Full redesign for cloud

Retain: Leave on-prem temporarily

Retire: Shut down unused assets

3. Network & Security

- Setup VPC, subnets, and routes

- Connect via VPN or Direct Connect

- Apply IAM best practices

- Enable GuardDuty & CloudTrail

4. Tooling

- AWS SMS for servers

- AWS DMS for databases

- CloudEndure for minimal-downtime moves

- AWS Snowball for massive transfers

5. Execution

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- Build landing zone/control tower

- Migrate in groups (low risk high)

- Use tagging for accountability

- Validate after each move

6. Post-Migration Optimisation

- Rightsize via Compute Optimizer

- Enable backups & autoscaling

- Track spend using Cost Explorer

- Monitor with CloudWatch & Budgets

Bonus Tips

- Dont skip dependency mapping

- Plan rollback strategy

- Watch for security misconfigs

Maintainer

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