Graphical user interface, text

Description automatically generated

**Plan the assessment phase-**

What need to assessment – What kind of migration is?

1. Cross platform migration – Legacy App ( SQL to Oracle), AWS to Azure
2. Lift and Shift – with minimum changes , applications needs to migrate to cloud.
3. Hybrid Migration – out to 100 applications, only 10 application needs to be migrate.
4. Prepare the Questionnaires-
5. Reason for migration – Performance, Cost, Security
6. Application nature
7. Criticality of applications
8. Deadlines
9. Business impact
10. Cut over time
11. Existing issues in application
12. Scripts-

Create the scripts to check the applications/resources details

1. Read only access –

Read only access on applications and resources which needs to be migrate

**Assessment Phase**

1. Inventory –

Prepare the inventory for all applications that need to be migrate

1. Server’s details – Windows, Linux – versions
2. Database details – Type, Size, Replication plan
3. Networks details
4. Nature of application – Internal, User face
5. Application’s end points
6. Criticality (Bronze, Silver, Gold and Platinum) / Severity – 1 (High) ,2,3,4(Low) / Business impact of application
7. Known issues and risk
8. Security
9. Compliances – Country compliances (Telecom/ Finance/Defense data)
10. DR plan
11. Nonfunctional Requirement – Performance, Testing, Monitoring
12. Integration with other applications / services
13. Cloud Service mapping –

Tools and services are available in cloud or not – Ex SQL-Server2005.

Decide the Region based on country compliances.

Legacy tools and services

Re-Platform – Due to version upgradation of SQL-Server, Java, .NET

Re-Engineering – Legacy to microservice, Containerization

**Prepare LLD (Low Level Design) and HLD (High Level Design)**

**Foundations**

1. Landing Availability Zone Design
2. VPC, Subnet, ELB, Handshake b/w source to destination - Direct Connect Design (For Hybrid), Application Gateway, NAT Gateway, Internet Gateway, Migration tool (SQL Server Migration Tool)

**Migration**

1. **Pilot Migration**

Tool identification for migration

Create POC for migration

1. **Simple Migration**
2. **Medium Migration**
3. **Complex Migration**