

ProjectDesignPhase

Solution Architecture

Date	03 November 2025
Team ID	NM2025TMID03205
Project Name	Lease Management
Maximum Marks	4 Marks

Goals of the Architecture:

- Provide automated reminders for rent payment & lease renewal
- Maintain accurate tenant–property records
- Centralize lease data and documents
- Reduce manual tracking & communication errors
- Ensure secure and reliable lease lifecycle management

Key Components:

- Tenant Database (tenant details)
- Lease Details Module (lease period, rent cycles, docs)
- Reminder Engine / Scheduler (alerts)
- Document Storage System (lease files)
- Dashboard / UI Interface (property & tenant view)

Development Phases:

1. Create tenant profile & property details
2. Upload lease agreement & enter rent cycle / renewal details
3. Configure automated reminder rules
4. Test rent reminder trigger
5. Test lease renewal alert
6. Verify document access & dashboard reporting

■ Solution Architecture Description:

TheLeaseManagementarchitectureautomatesrentaloperationsbystoringtenantrecords,lease terms, and documents centrally.

Areminderenginechecksleaseperiods&paymentcyclesandsendsnotificationsbefore deadlines, ensuring no missed renewals or payments.

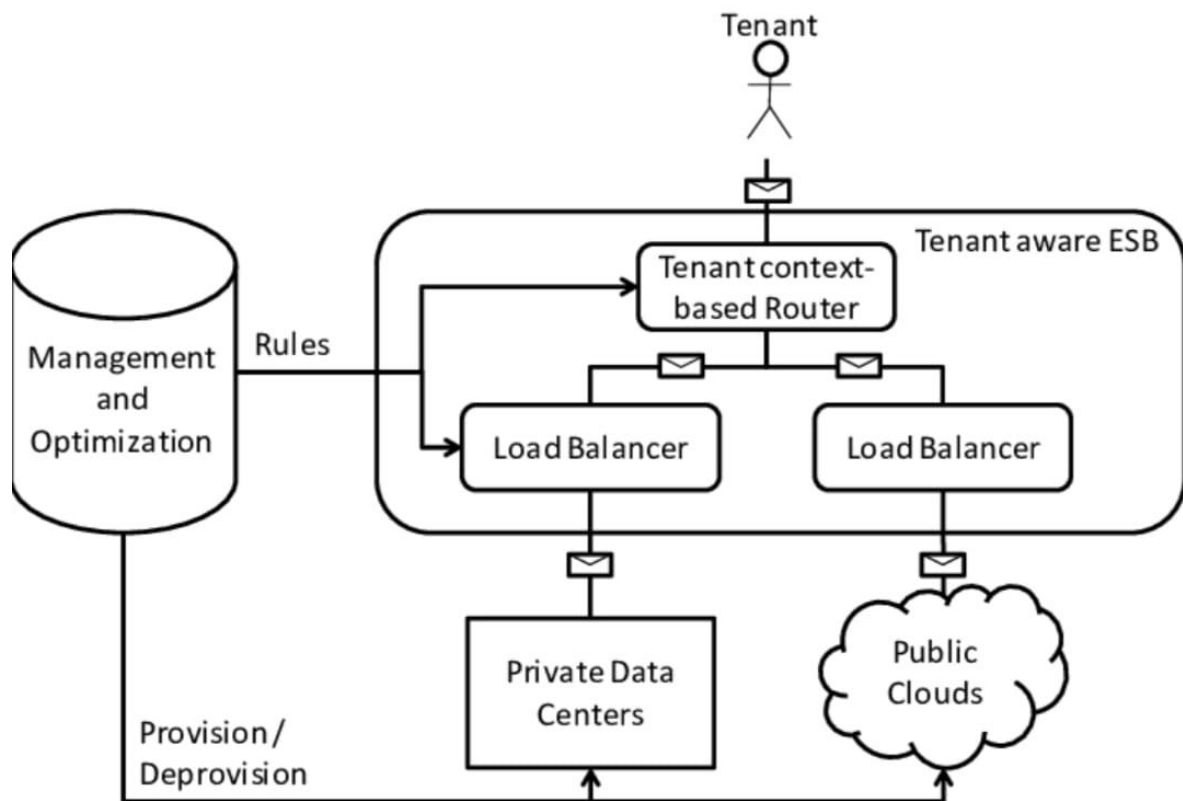
Thearchitectureincludesmodulesfortenantprofiles,leasemanagement,schedulednotification triggers, and secure storage.

Testdataisusedduringdevelopmenttoverifyreminderaccuracy,documentaccess,and dashboard view.

Thisstructureeliminatesmanualtracking,improvescommunication,andensuresreliablelease workflows with timely alerts and organized records.

Example – Solution Architecture Diagram:

(Diagram Placeholder – architecture & data flow)



References:

<https://aws.amazon.com>