

## **Project Design Phase**

### **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:***

The Lease Management architecture automates rental operations by storing tenant records, lease terms, and documents centrally.

A reminder engine checks lease periods & payment cycles and sends notifications before deadlines, ensuring no missed renewals or payments.

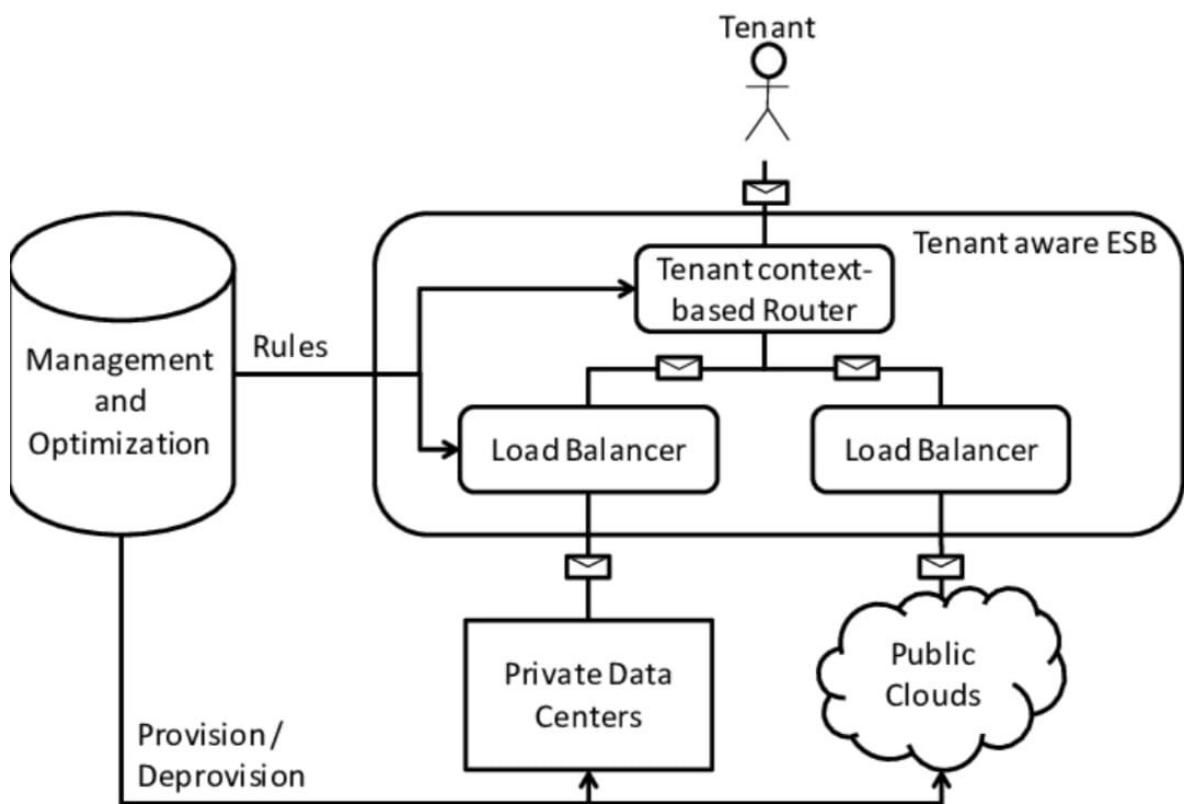
The architecture includes modules for tenant profiles, lease management, scheduled notification triggers, and secure storage.

Test data is used during development to verify reminder accuracy, document access, and dashboard view.

This structure eliminates manual tracking, improves communication, and ensures reliable lease workflows with timely alerts and organized records.

#### ***Example – Solution Architecture Diagram:***

(Diagram Placeholder – architecture & data flow)



***References:***

<https://aws.amazon.com>