

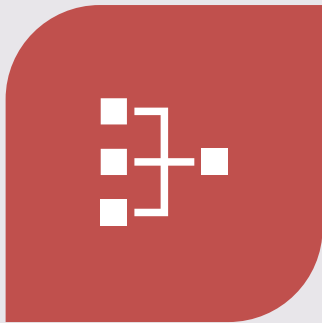


Think Like an Architect – Episode 4

Architecture Patterns,
Templates & Diagrams



What You'll Learn Today



ARCHITECTURE PATTERNS
(APPLICATION & NETWORK)



ARCHITECTURE DIAGRAMS
TYPES



TEMPLATES (BRD, HLD, LLD)

Application Architecture Patterns

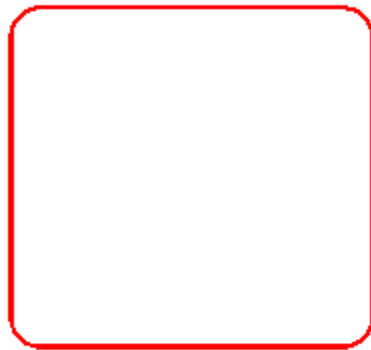
Monolithic

SOA (Service-
Oriented
Architecture)

Microservices

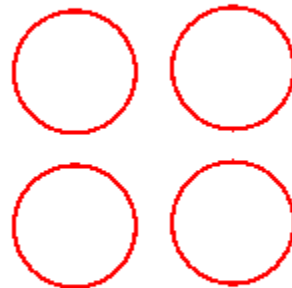
Application Architecture Patterns

Monolithic Vs SOA Vs Microservices



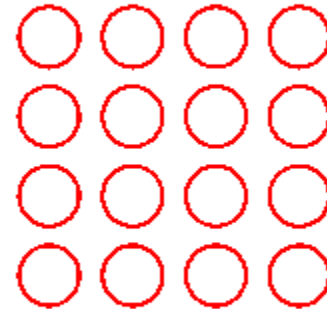
Monolithic

Single Unit



SOA

Coarse-grained



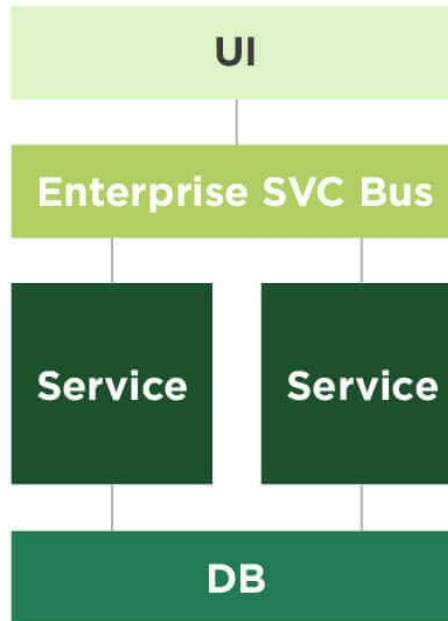
Microservices

Fine-grained

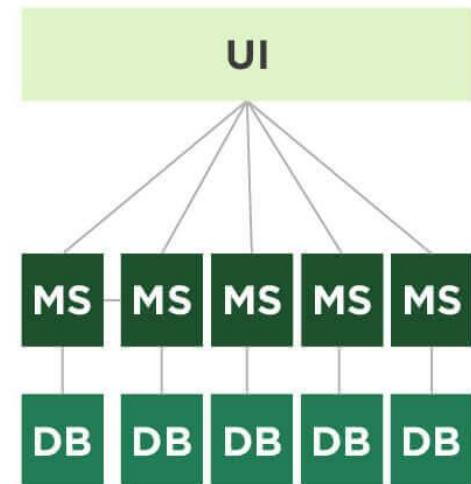
Architecture Patterns from Data storage



Monolithic



Service Oriented



Microservices

Network Architecture Patterns

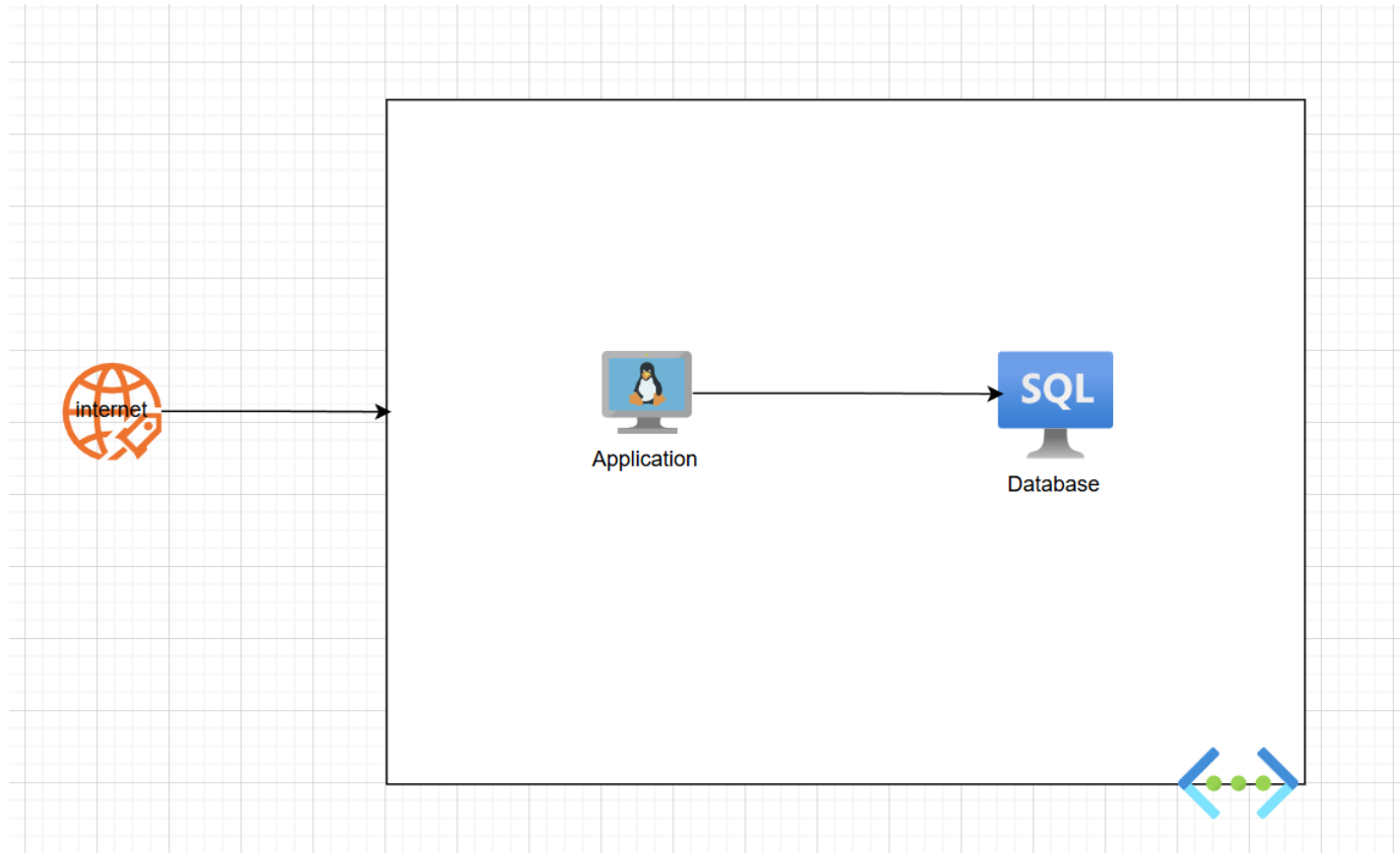
N-Tier Architecture

Flat / Single-Tier

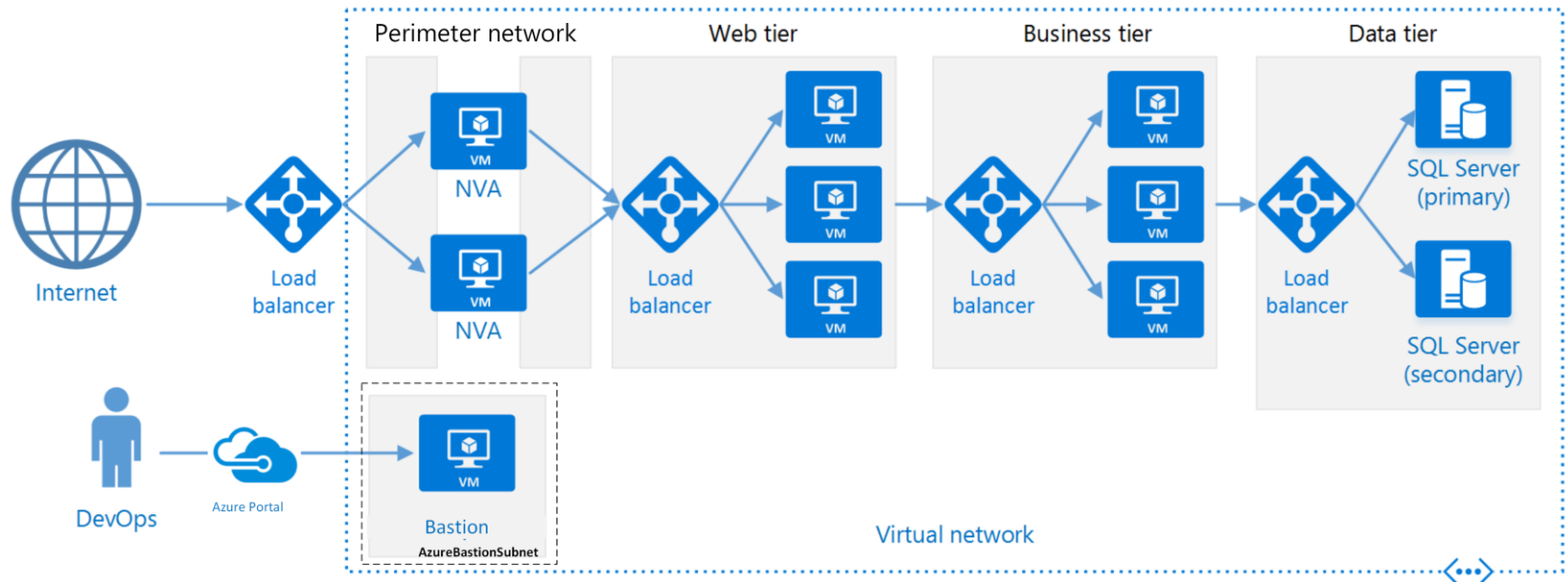
Hub-and-Spoke

Hybrid

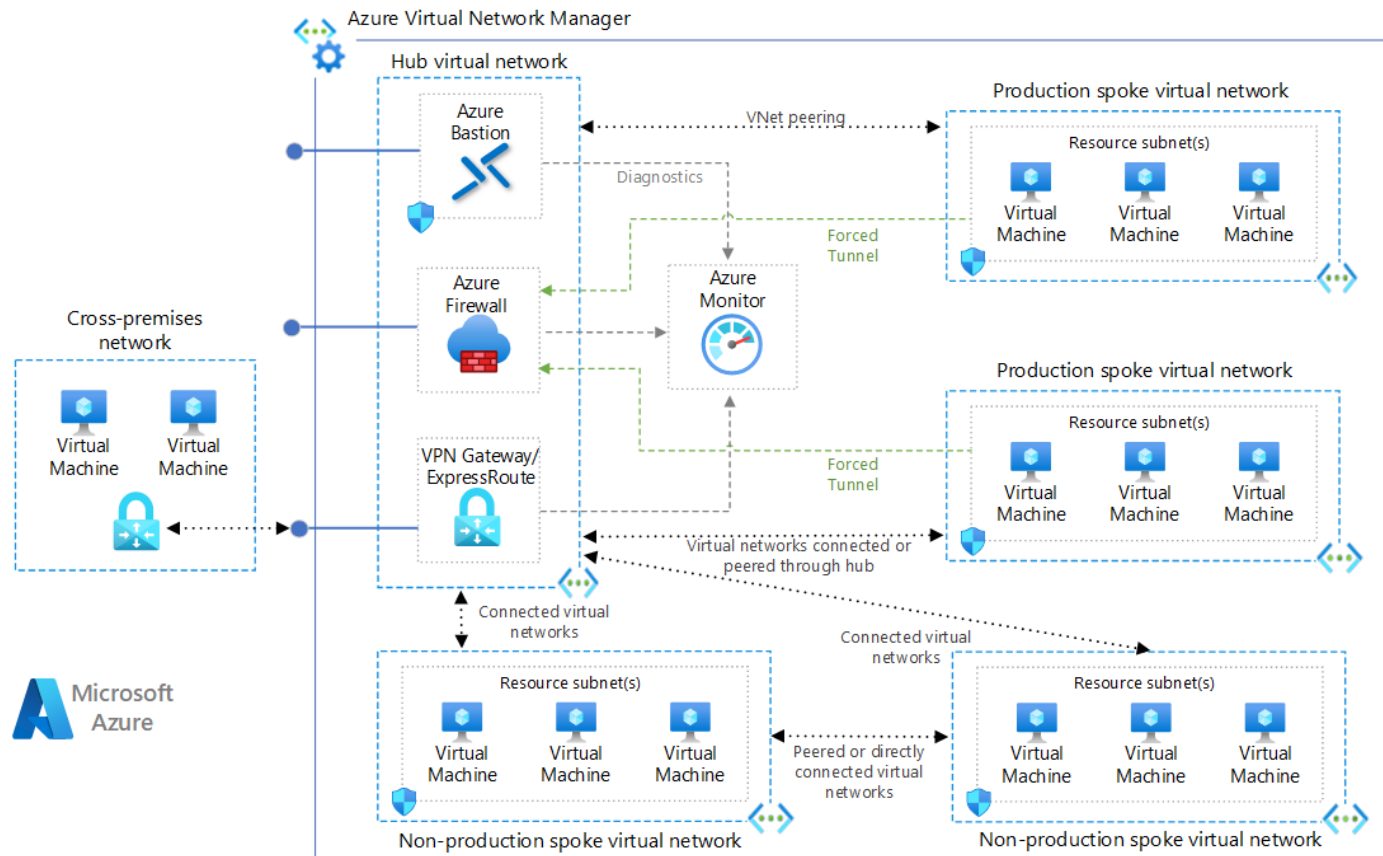
Flat / Single-Tier



N-Tier Architecture



Hub-and-Spoke



Specialized Architectures

- Serverless
- Queue-Based
- Cache-Based

Architecture Templates

BRD → Business
Requirements Document

HLD → High-Level Design

LLD → Low-Level Design

Architecture Diagrams Overview

High level diagram

Low level diagram

Network diagram

Data diagram

Data flow diagram

Use case diagram



Diagrams Tools





HLD vs LLD Mapping



HLD Focus:
Modules, Zones,
Policies

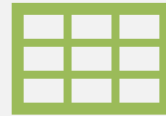


LLD Focus: APIs,
Subnets, Firewall
rules

Episode Recap



Architecture =
Translating
requirements into
structured design



Use right patterns &
templates



Always document
with clarity