

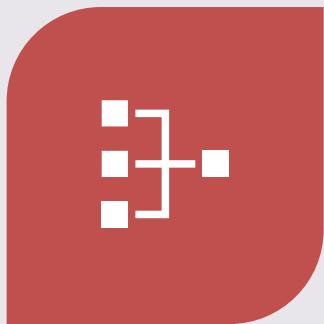


# Think Like an Architect – Episode 4

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

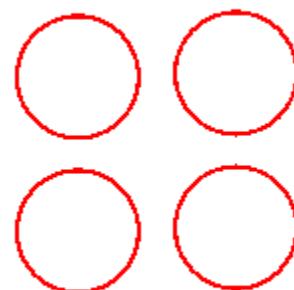
# Application Architecture Patterns

## Monolithic Vs SOA Vs Microservices



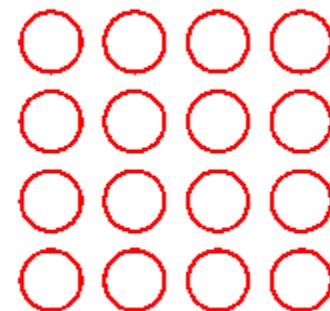
**Monolithic**

Single Unit



**SOA**

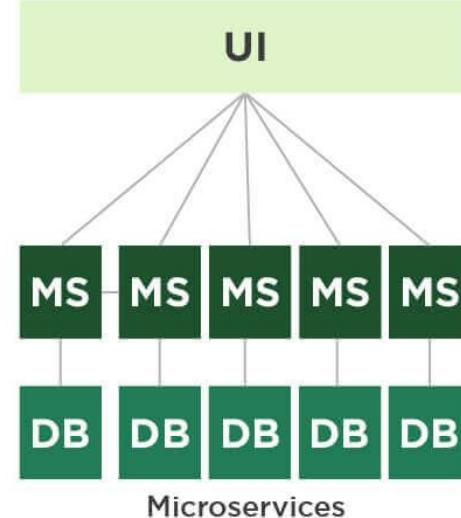
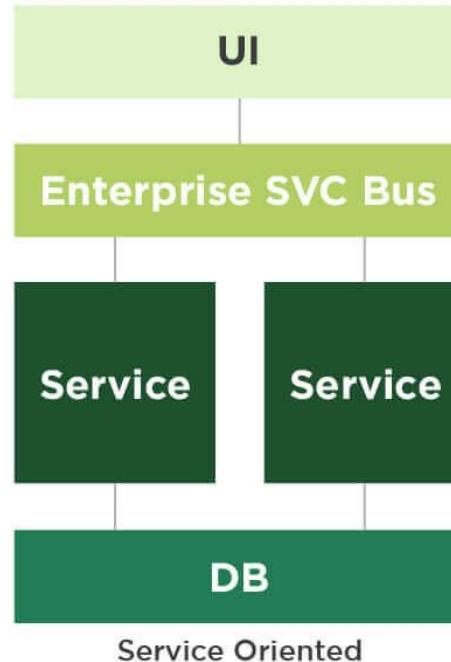
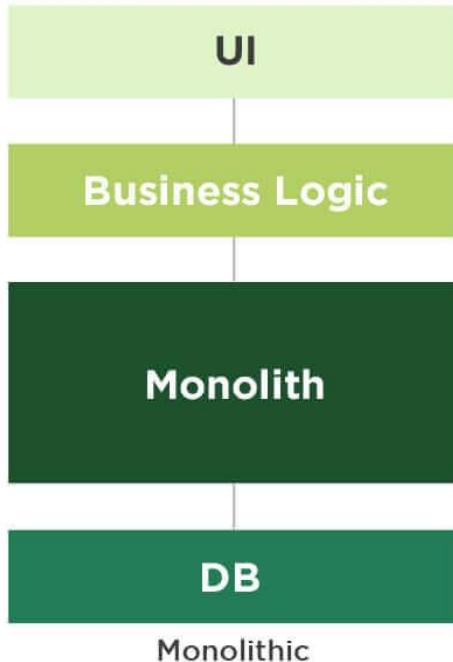
Coarse-grained



**Microservices**

Fine-grained

# Architecture Patterns from Data storage



# Network Architecture Patterns

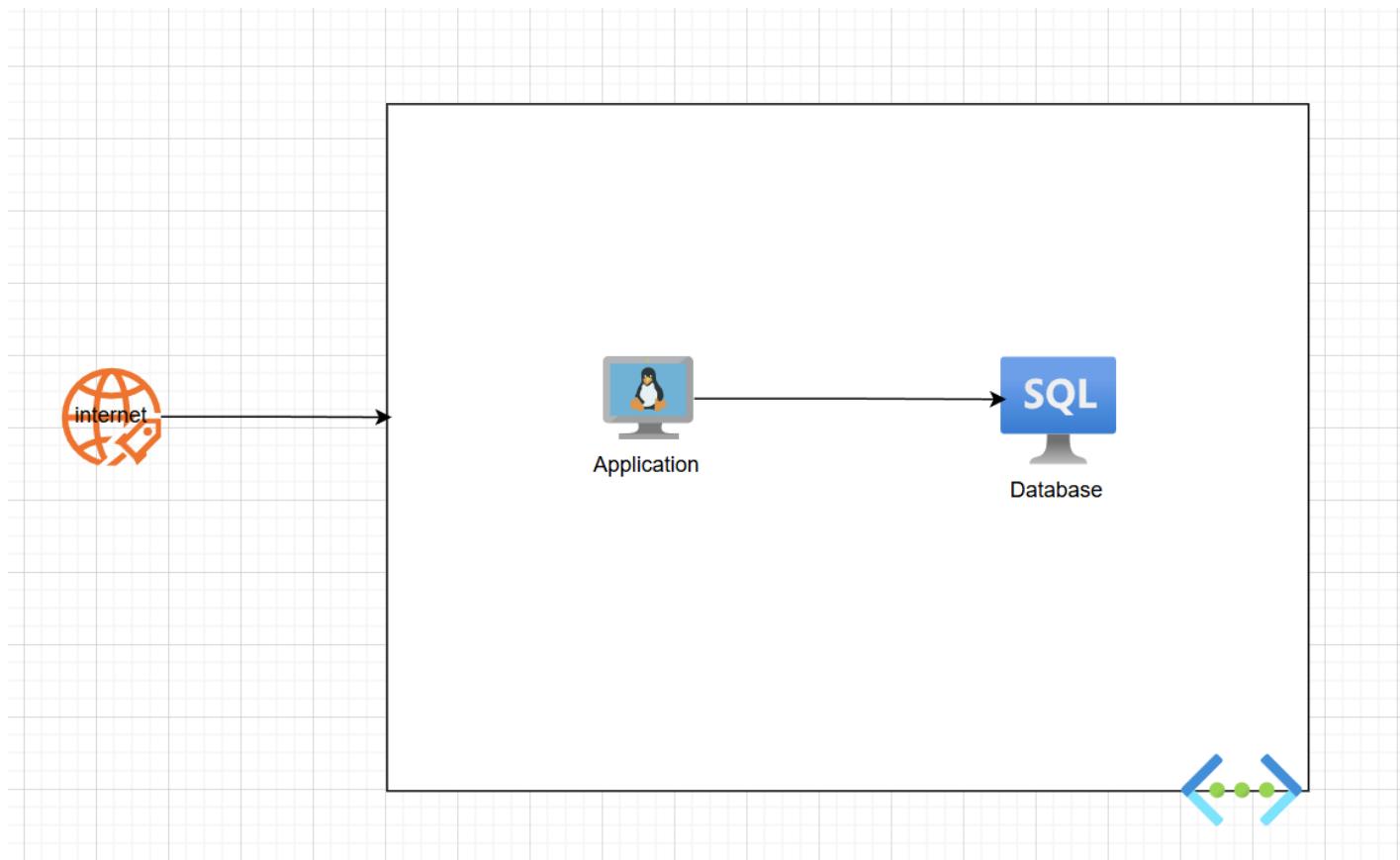
N-Tier Architecture

Flat / Single-Tier

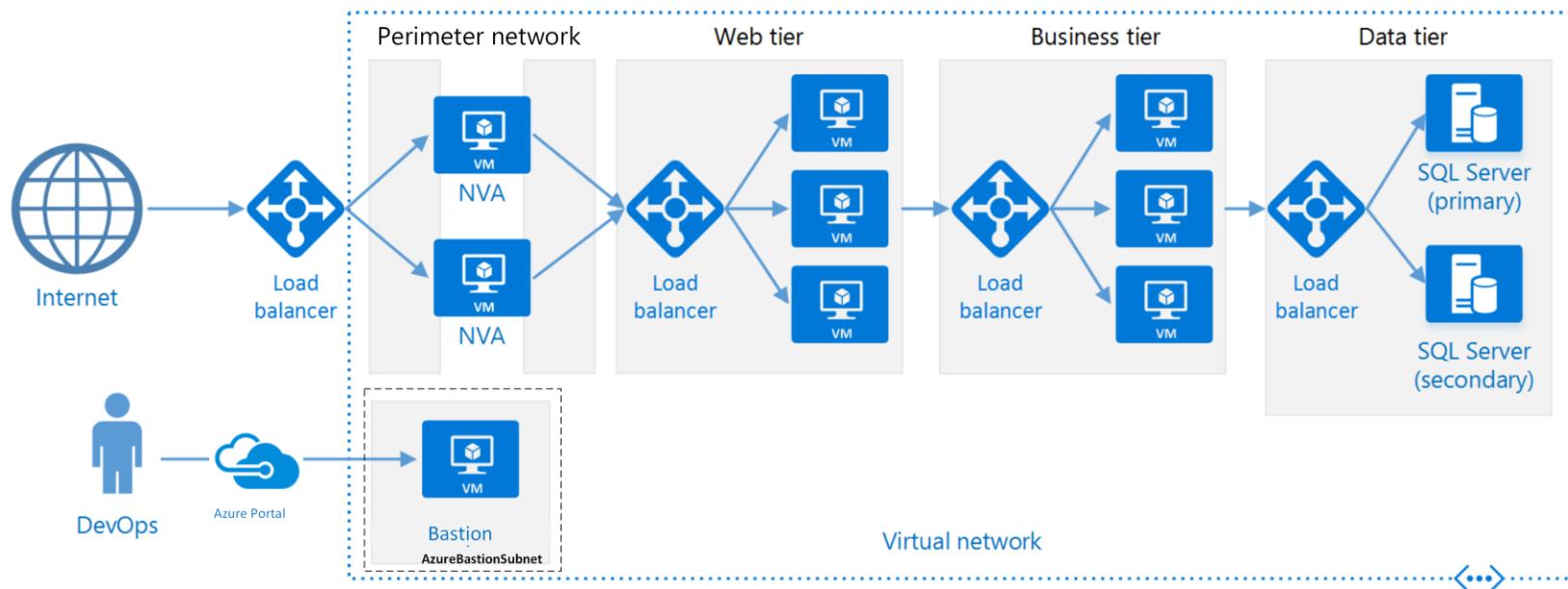
Hub-and-Spoke

Hybrid

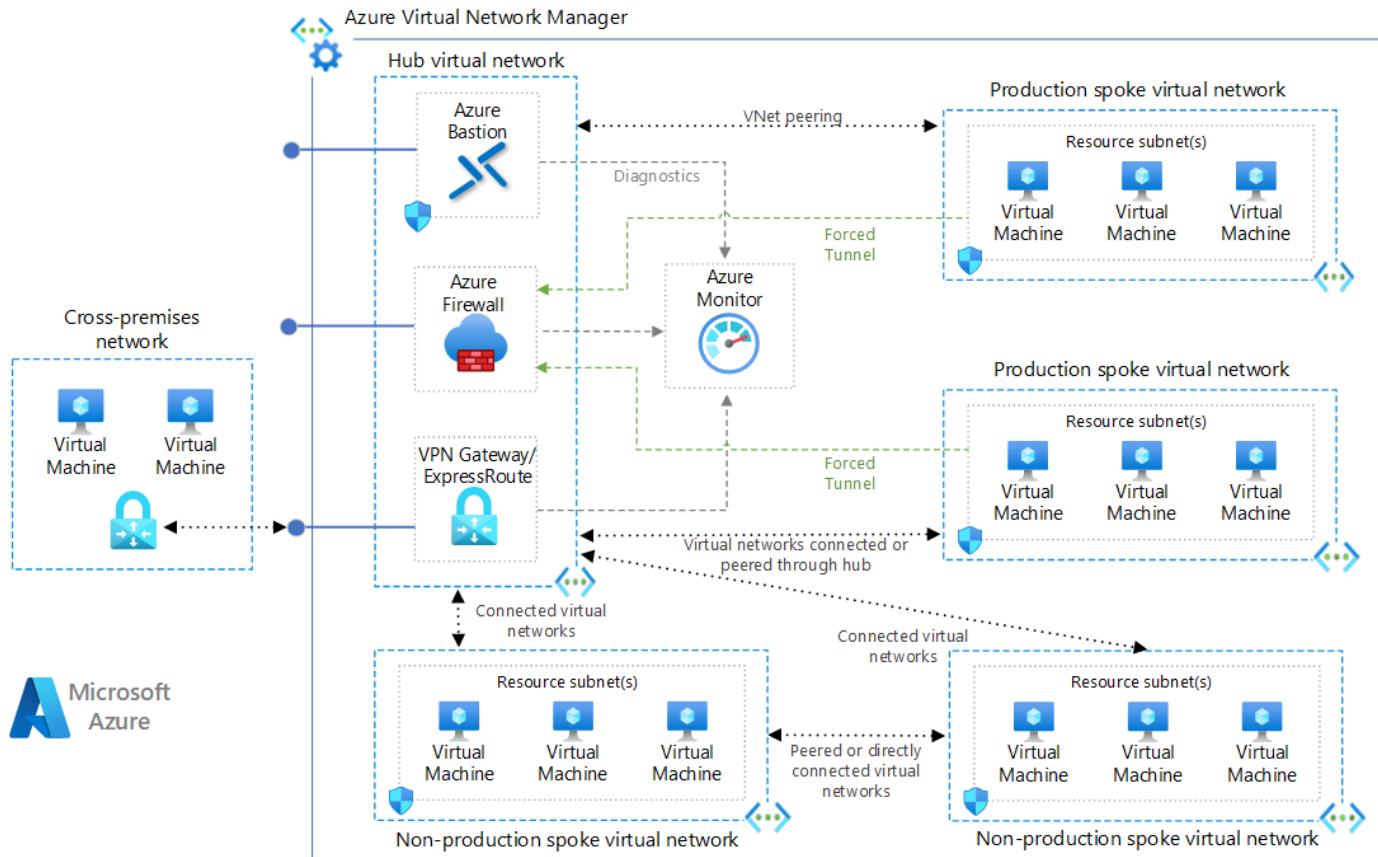
# Flat / Single-Tier



# 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



 **Lucidchart**



Diagrams  
Tools

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# 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

