

Architect.yaml Configuration Guide

5 dakikada microservice mimarinizi tanımlayın!

6 Temel Yapı

```
yaml
project_name: "my-project"
version: "1.0.0"
services:
 service-name:
  language: dotnet|java|nodejs
  database: postgresql|mongodb
  architecture: cgrs|event-driven|n-tier
  entities:
   EntityName:
    field1: type
    field2: type
  events:
   - EventName1
    - EventName2
```

🦴 Service Konfigürasyonu

Language Options

- (dotnet) → ASP.NET Core 9 + Entity Framework
- (java) → Spring Boot 3.2 + JPA + Maven
- **nodejs**] → Express.js + Mongoose/Sequelize

Database Options

- **(postgresql)** → Relational DB (önerilen)
- [mongodb] → NoSQL (Node.js ile ideal)

Architecture Options

- [cqrs] → Command/Query separation + MediatR
- **event-driven**] → Event publishing + Kafka
- n-tier] → Classic layered architecture

📊 Entity Field Types

Туре	Description	Example
string	Text field	name: string
int	Integer	age: int
float	Decimal	price: float
bool	Boolean	isActive: bool
datetime	Timestamp	createdAt: datetime
(hashed-string)	Auto-hashed password	password: hashed-string

Hızlı Template'ler

E-commerce Platform		
yaml		
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```
project_name: "ecommerce"
services:
 user:
  language: dotnet
  database: postgresql
  architecture: cqrs
  entities:
   User:
    username: string
    email: string
    password: hashed-string
    firstName: string
    isActive: bool
  events:
   - UserRegistered
   - UserUpdated
 product:
  language: java
  database: postgresql
  architecture: cqrs
  entities:
   Product:
    name: string
    price: float
    stock: int
     category: string
   Category:
    name: string
    description: string
  events:
   - ProductCreated
   - StockUpdated
 order:
  language: nodejs
  database: mongodb
  architecture: event-driven
  entities:
   Order:
    userld: string
    status: string
    totalAmount: float
     orderDate: datetime
  events:
```

- OrderCreated
- OrderCompleted

Blog Platform

```
yaml
project_name: "blog-platform"
services:
 user:
  language: dotnet
  database: postgresql
  architecture: cqrs
  entities:
   User:
    username: string
    email: string
    password: hashed-string
    role: string
  events:
   - UserRegistered
 blog:
  language: nodejs
  database: mongodb
  architecture: event-driven
  entities:
   Post:
    title: string
    content: string
    authorld: string
    publishedAt: datetime
    isPublished: bool
   Comment:
    postld: string
    userld: string
    content: string
  events:
   - PostPublished
   - CommentAdded
```

Banking System

yaml

```
project_name: "banking-system"
services:
 account:
  language: java
  database: postgresql
  architecture: cqrs
  entities:
   Account:
    accountNumber: string
    userld: string
    balance: float
    accountType: string
    isActive: bool
  events:
   - AccountCreated
   - BalanceUpdated
 transaction:
  language: dotnet
  database: postgresql
  architecture: event-driven
  entities:
   Transaction:
    fromAccount: string
    toAccount: string
    amount: float
    transactionType: string
    timestamp: datetime
    status: string
  events:
   - TransactionCreated
   - TransactionCompleted
```

Best Practices

® Naming Conventions

- **Services**: kebab-case (user-management), (order-service)
- Entities: PascalCase (User), OrderItem))
- **Fields**: camelCase (firstName), (createdAt)
- Events: PascalCase (UserRegistered), (OrderCreated)

Architecture Selection

- CQRS: Karmaşık business logic + read/write ayrımı
- Event-driven: Loosely coupled + async operations
- N-tier: Basit CRUD operasyonları

Database Selection

- **PostgreSQL**: Relational data + ACID transactions
- MongoDB: Document-based + flexible schema

Security Fields

```
entities:
User:
username: string
email: string
password: hashed-string # Otomatik bcrypt hash
salt: string # Otomatik salt
lastLogin: datetime
```

Validation Rules

Required Fields

- (project_name) (string)
- (services) (object)
- (services.*.language) (dotnet|java|nodejs)
- services.*.entities (object)

Optional Fields

- (database) (default: postgresql)
- (architecture) (default: cqrs)
- (events) (default: [])
- (version) (default: 1.0.0)

🞉 Quick Start

- 1. **Dosya oluştur**: (architect.yaml)
- 2. **Template seç**: Yukarıdaki örneklerden birini kopyala
- 3. Özelleştir: Service, entity ve field'ları düzenle
- 4. **Çalıştır**: microfactory

5. **Deploy**: docker-compose up -d

Pro Tips

- Entity başına 5-10 field ideal
- Password field'ları mutlaka (hashed-string) kullanın
- Event isimleri Past Tense kullanın (Created), (Updated))
- Complex relationships için separate entity oluşturun
- Service başına 2-5 entity ideal mikroservis boyutu
- 🧕 5 dakikada microservice mimariniz hazır! 🚀