

## Training program:

# MicroFrontends Architecture Workshop

### Info:

<b>Name:</b>	<b>MicroFrontends Architecture Workshop</b>
<b>Code:</b>	<b>Arch-microfrontends</b>
<b>Category:</b>	Architecture
<b>Target audience:</b>	architects developers team_lead
<b>Duration:</b>	2-3 days
<b>Format:</b>	

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The training is intended for frontend architects and developers planning or considering the use of microfrontend architecture. The training program is a general framework - specific training is preceded by a pre-training analysis.

### It's all about the content.

- Awareness of goals and problems solved by MicroFrontend architecture
- Holistic approach to architecture selection: code, organization, teams, implementations, monitoring, devops
- Strategic aspects: domain and product
- Technical solutions: with their advantages and disadvantages
- Special emphasis on modularity and bounded contexts

# Training program

## 1. - Frontend Architecture Styles

1.1. - Monolith

1.2. - Server-side integrated MicroFrontends

1.3. - Client-side integrated MicroFrontends

## 2. - Strategic MicroFrontends

2.1. - Architectural Drivers

2.2. - Problems solved by MicroFrontends

2.3. - Expected Benefits and Guaranteed Costs

2.4. - DevOps Culture

## 3. - Micro-Frontend Architecture Principles

3.1. - Business Domain Modeling

3.2. - Automation

3.3. - Decision Decentralization

3.4. - Independent Deployments

3.5. - Fault Isolation

3.6. - Observability

## 4. - Frontend Modularization

4.1. - Non-Modular Monoliths

4.2. - Bounded Contexts in Frontend Applications

4.3. - Ubiquitous Language

4.4. - Anti-Corruption Layer

4.5. - Component Libraries

4.6. - State Sharing

4.7. - Model Sharing

4.8. - Team Topologies, Division of Responsibilities

## 5. - Technical Solutions

5.1. - IFrames

5.2. - WebComponents

5.3. - Module Federation

5.4. - Strangler Pattern

5.5. - Frameworks

## 6. - DevOps

6.1. - Strategies implementation

6.2. - Observability, Monitoring

6.3. - DORA metrics

## 7. - Cross Cutting Concerns

7.1. - MicroFrontend Testing

7.2. - Performance

7.2.1. - Core Web Vitals

7.2.2. - Bundling

7.3. - Common Anti-Patterns