

Microservices Workshop

**Anand Chitipothu
Pipal Academy**

Key Ideas

- Microservices Architecture
- RESTful APIs
- Docker

Overview

- Introduction to Microservices Architecture
- Decomposing an Application into Microservices
- Building RESTful APIs
- Introduction to Docker
- Challenges, Anti-patterns and Best Practices

Introduction to Microservices Architecture

An architectural style that structures an application as a collection of loosely coupled services.

– Wikipedia

.

A particular way of designing software applications as suites of independently deployable services.

– Martin Fowler

Advantages of Microservices

- Smaller code base
- Easy to scale
- Easy to throw-away
- Easy to deploy
- Eliminates long-term commitment to a single technology stack
- Resilience

Downsides of Microservices

- Distributed systems are hard
- Testing and Integration Challenges
- Significant Operational Overhead

How to design microservices?

What makes a good microservice?

- Loose Coupling
- High Cohesion

What is the right size?