

Xerris Bootcamp Series

Introduction to Microservices



ACCOLITE DIGITAL
Transforming The Future, Now

What are Microservices?

Traditionally applications were developed as a single **monolith**.

Service Oriented Architecture (SOA) breaks down the monolith into more manageable services.

Microservices move away from an enterprise scope pattern to an application scope.

Microservices are small independent services that expose and communicate with each other with well-defined APIs.



MONOLITHIC
Single unit



SOA
Coarse-grained



MICROSERVICES
Fine-grained



What are Microservices?

Microservices are an architectural style that breaks down an application into a collection of services that are:

- Highly maintainable and testable
- Loosely coupled
- Independently deployable
- Owned by a small team
- Organized around business capabilities.



MONOLITHIC
Single unit



SOA
Coarse-grained

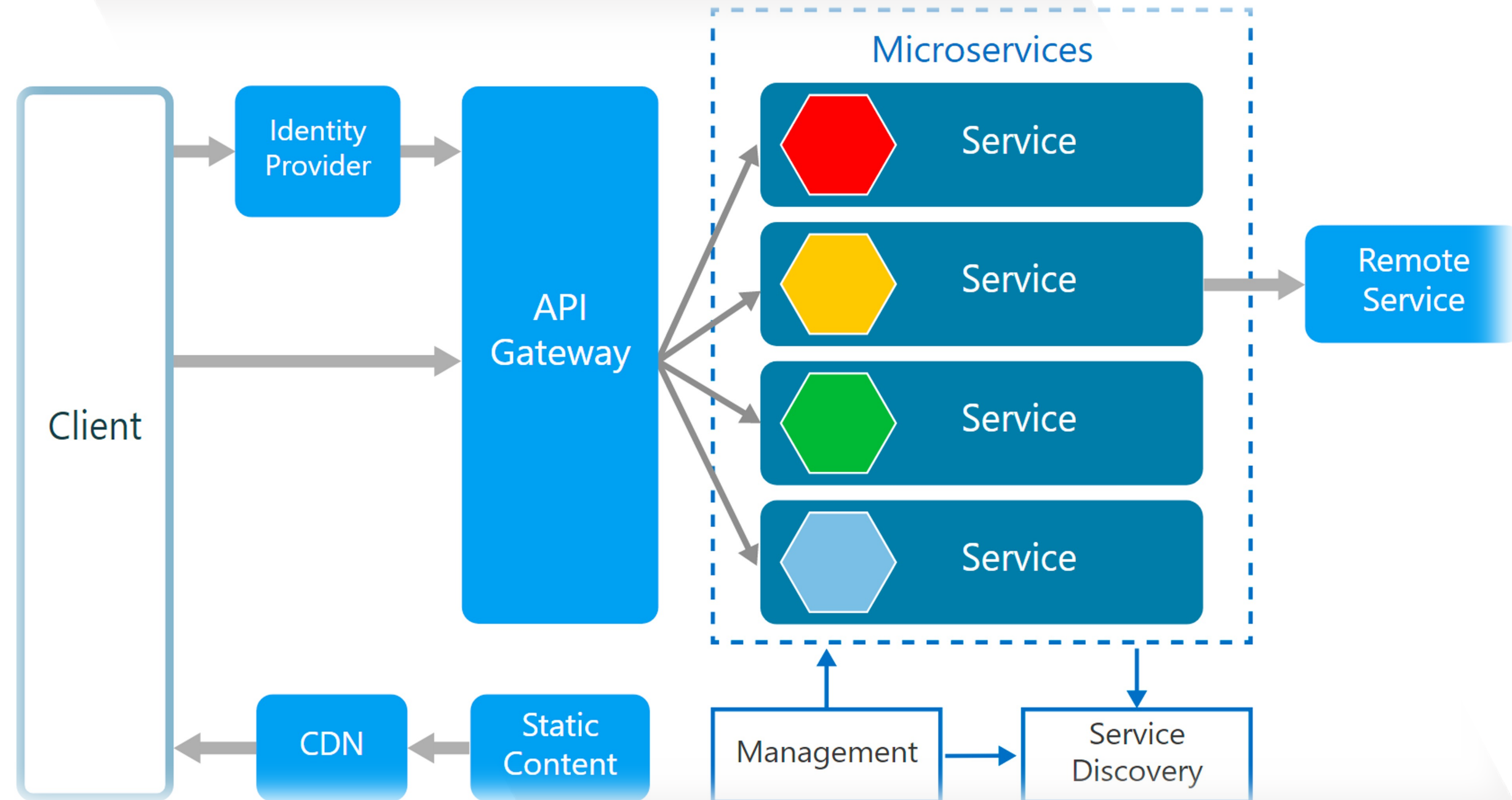


MICROSERVICES
Fine-grained



Microservices on AWS

Sample microservices architecture on AWS



Microservices on AWS

With the help of “serverless” tools like AWS Lambda. You don’t need to write much code to deploy production-level code.

A code editor window with a tab labeled 'index.js'. The code is written in JavaScript and defines an asynchronous handler function for AWS Lambda. The code is as follows:

```
1 exports.handler = async (event) => {  
2     // TODO implement  
3     const response = {  
4         statusCode: 200,  
5         body: JSON.stringify('Hello from Lambda!'),  
6     };  
7     return response;  
8 };
```



Microservices on AWS

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```
[LambdaSerializer(typeof(Amazon.Lambda.Serialization.Json.JsonSerializer))]  
public async Task<APIGatewayProxyResponse> PostBlog(APIGatewayProxyRequest request)  
{  
    var blogPost = request.Body.FromJson<BlogPost>();  
    var result:BlogPost = await service.PostBlog(blogPost);  
    return result.Ok();  
}
```



DEMO AWS Lambda



AWS Lambda

