Xerris Bootcamp Series

Introduction to Microservices

xerris

ACCOLITE DIGITAL
Transforming The Future, Now

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.

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:

- Highly maintainable and testable
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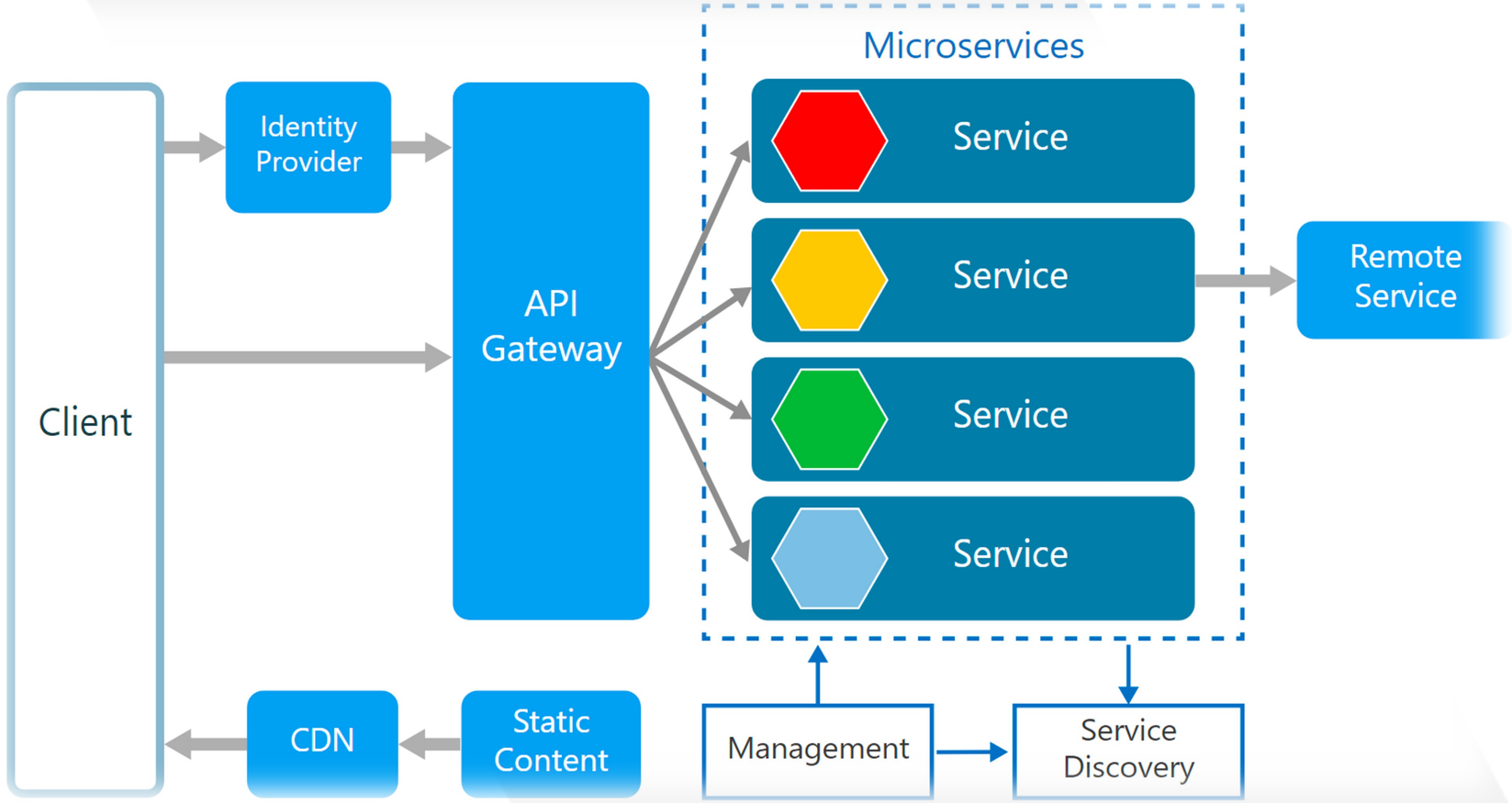
- Owned by a small team
- Organized around business capabilities.

Microservices on AWS

Sample microservices architecture on AWS



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

index.js

```
exports.handler = async (event) => {
    // TODO implement
    const response = {
        statusCode: 200,
        body: JSON.stringify('Hello from Lambda!'),
    };
    return response;
};
```

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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