

Securing gRPC



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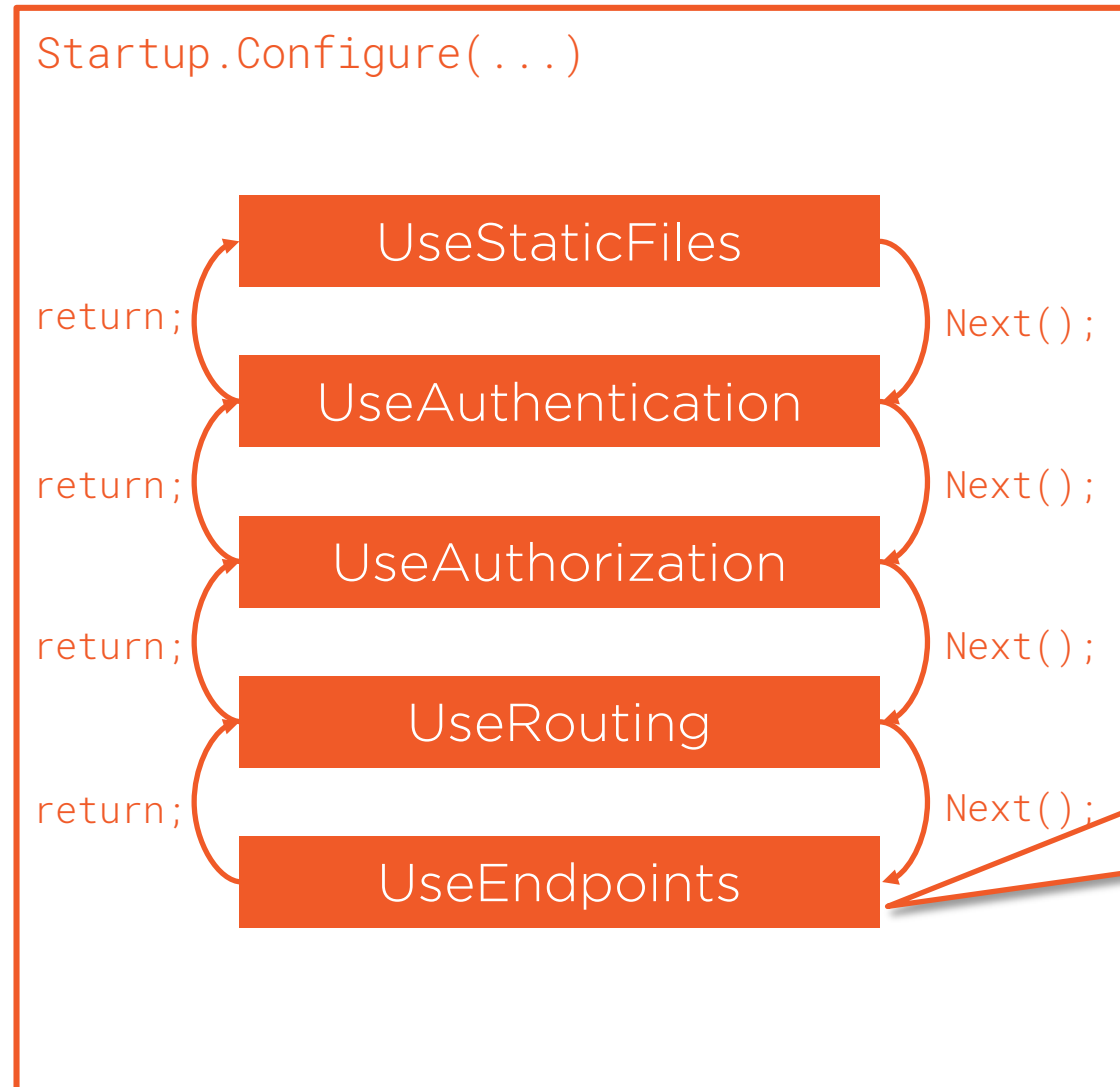
Overview



Understanding the .NET Core Pipeline
Using JavaScript Web Tokens in gRPC
Using Client Certificates in gRPC



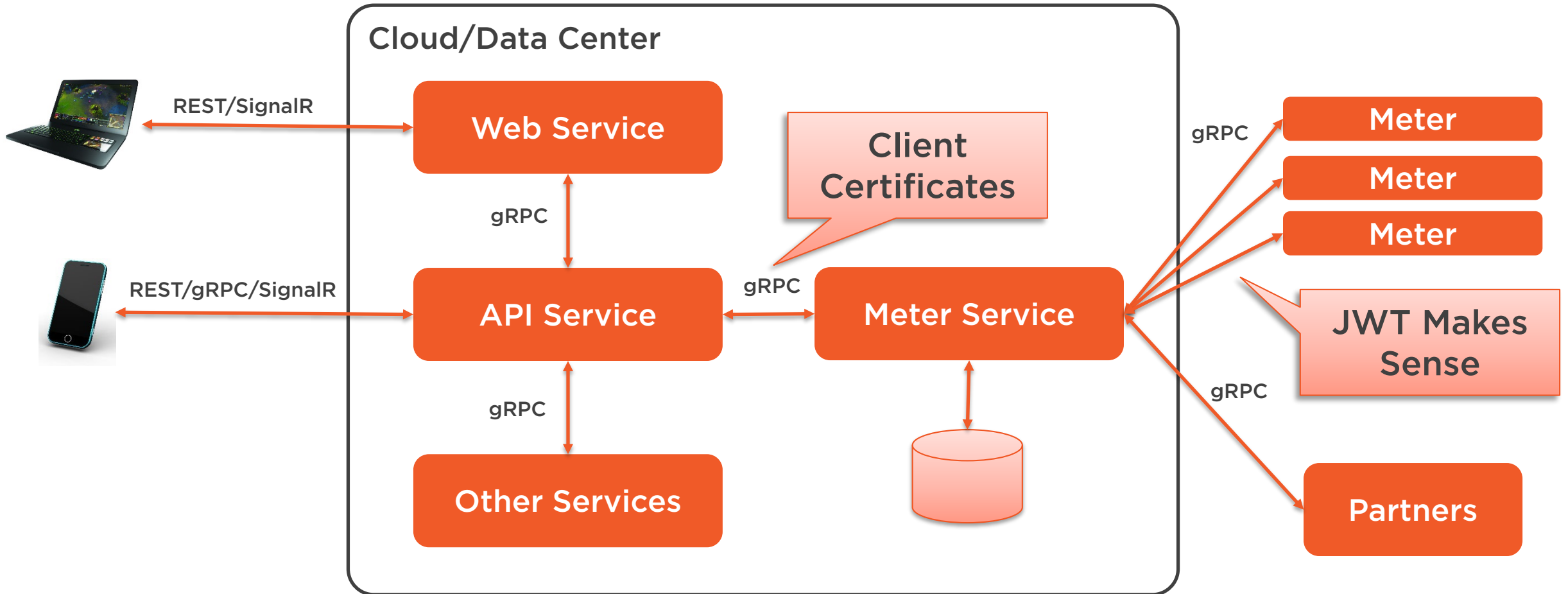
Middleware in ASP.NET Core



gRPC Middleware
just another piece
of middleware



Securing gRPC Services



Demo



Use JavaScript Web Tokens



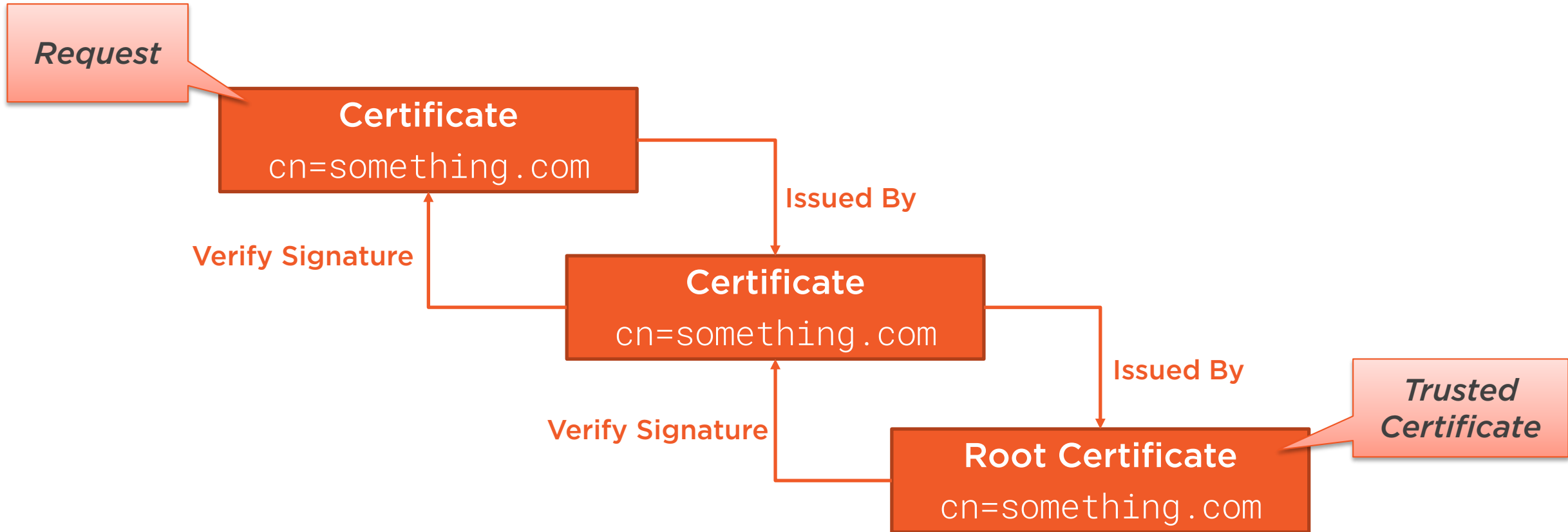
Demo



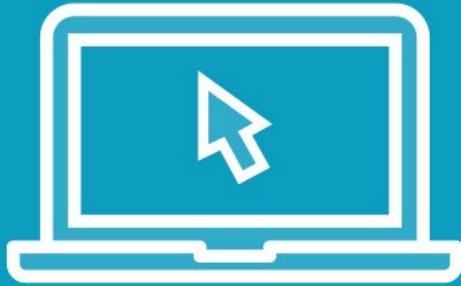
Use JWT in the Client



How Do Certificates Work?



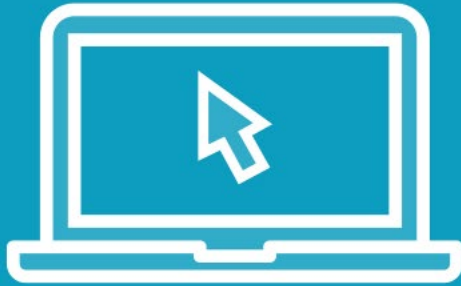
Demo



Create the Certificates



Demo



Setup Web Certificate



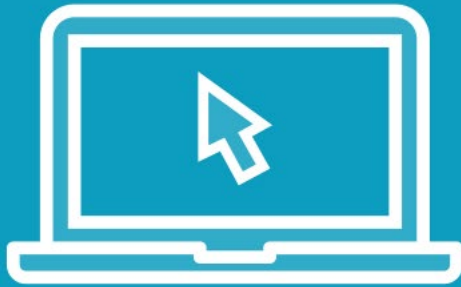
Demo



Enable Client Certificate Authentication



Demo



Use the Certificate in the Client



What We've Learned



gRPC in ASP.NET Core is just another piece of middleware



Authentication just works with some caveats



Client Certificates are better to secure intra-datacenter services



Wrap-up



gRPC

- Thanks for joining me!
- Links you might have missed:
- GRPC Website:
 - grpc.io
- Protocol Buffers Documentation
 - shawnw.me/protobuf-docs
- gRPC with C# Documentation
 - shawnw.me/grpc-net-core