

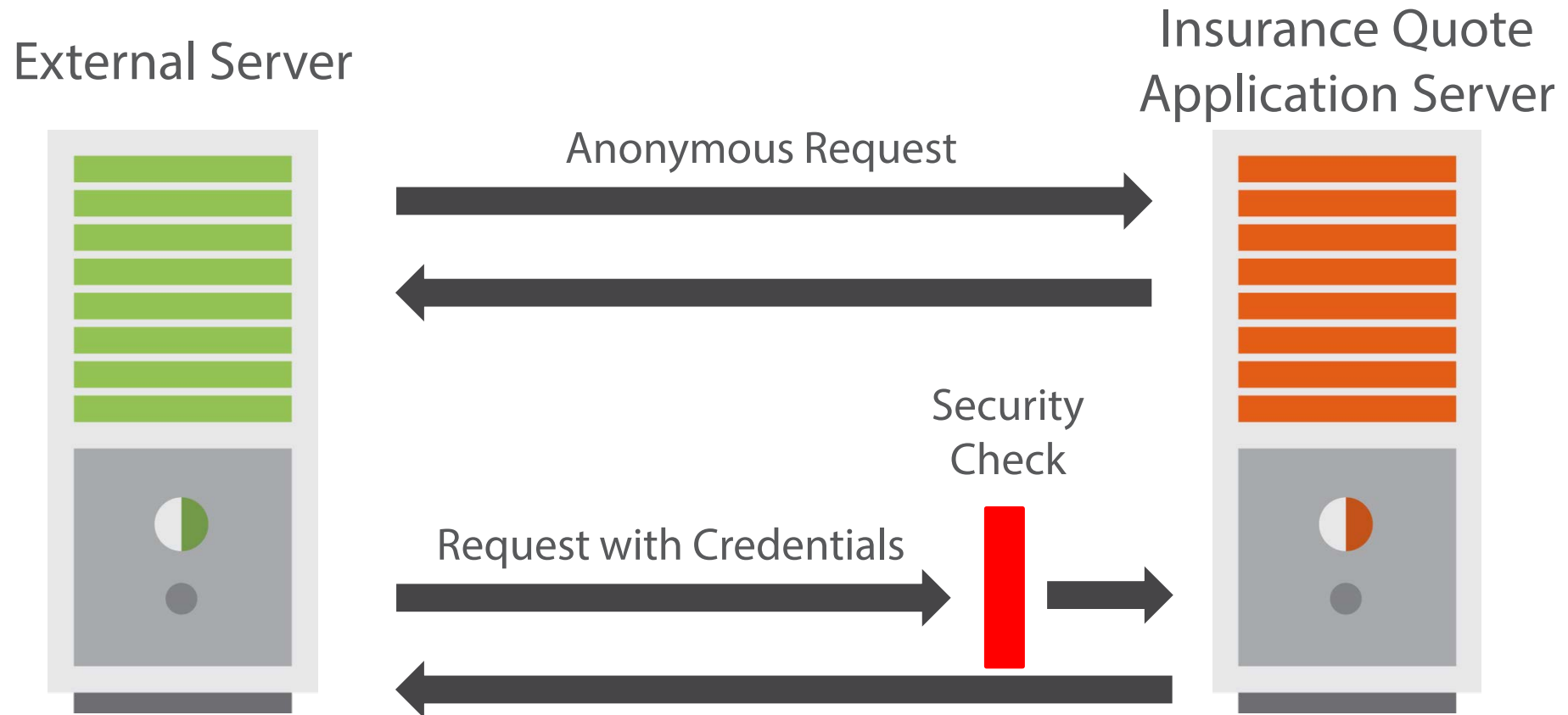
Customizing Security Using Authentication Filters



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Anonymous and Authorized Requests



HTTP Basic Access Authentication

Client

Server



1) Request for protected resource



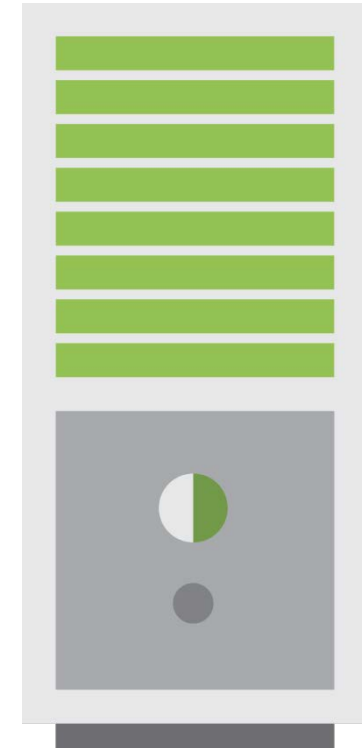
2) Asks for credentials



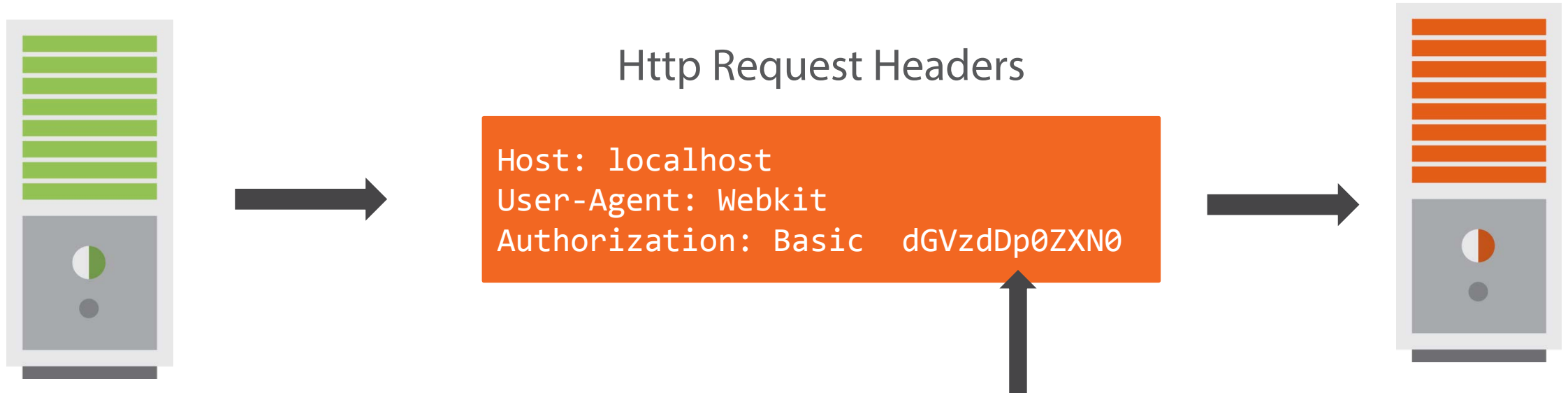
3) Prompts for and sends credentials



4) Responds with requested content



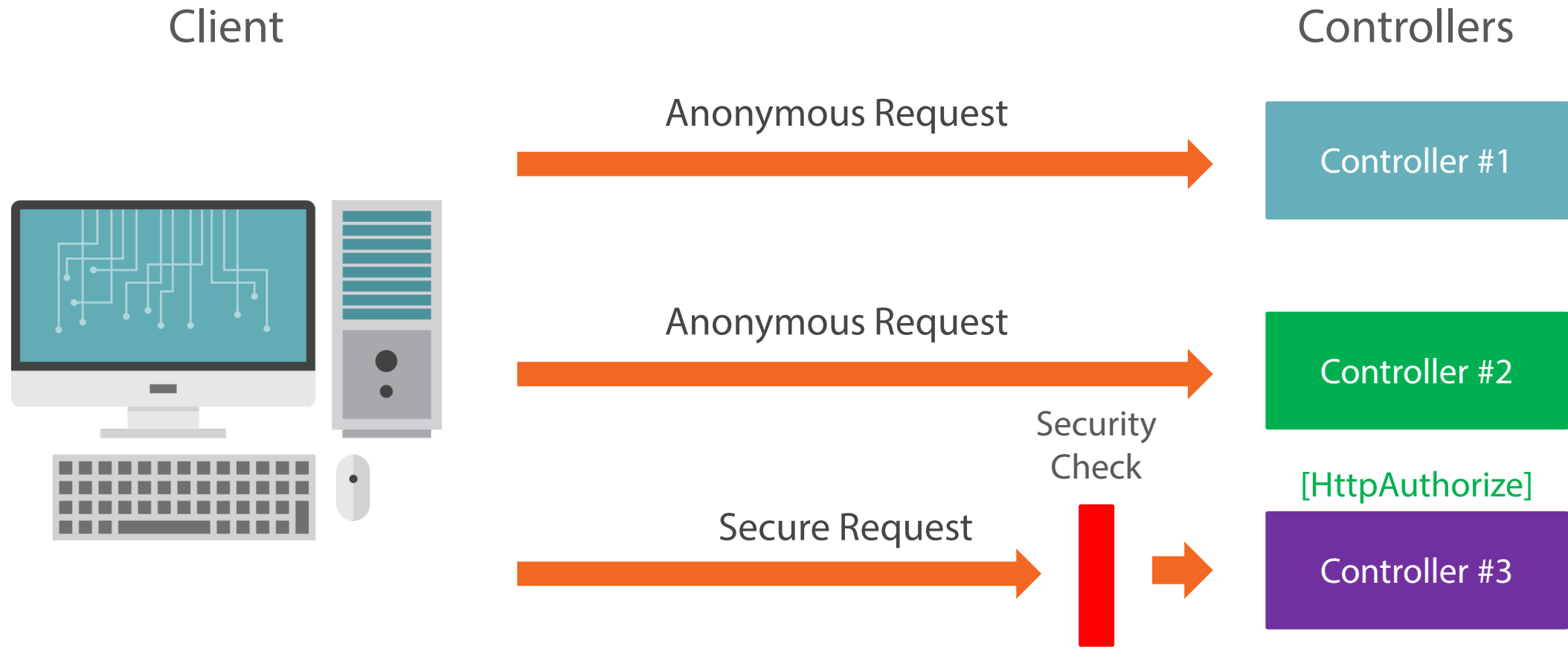
Basic Authentication **Security Considerations**



Base 64 Encoding is **NOT** Encryption.

`dGVzdDp0ZXN0 == test:test`

Controlling the Scope of Security





Authentication and Authorization Filters

The `IAuthenticationFilter` Interface

```
public interface IAuthenticationFilter
{
    void OnAuthentication(AuthenticationContext filterContext )

    void OnAuthenticationChallenge(AuthenticationChallengeContext filterContext)
}
```

The **IAuthorizationFilter** Interface

```
public interface IAuthorizationFilter
{
    void OnAuthorization(AuthorizationContext filterContext )
}
```

Authorize Attribute

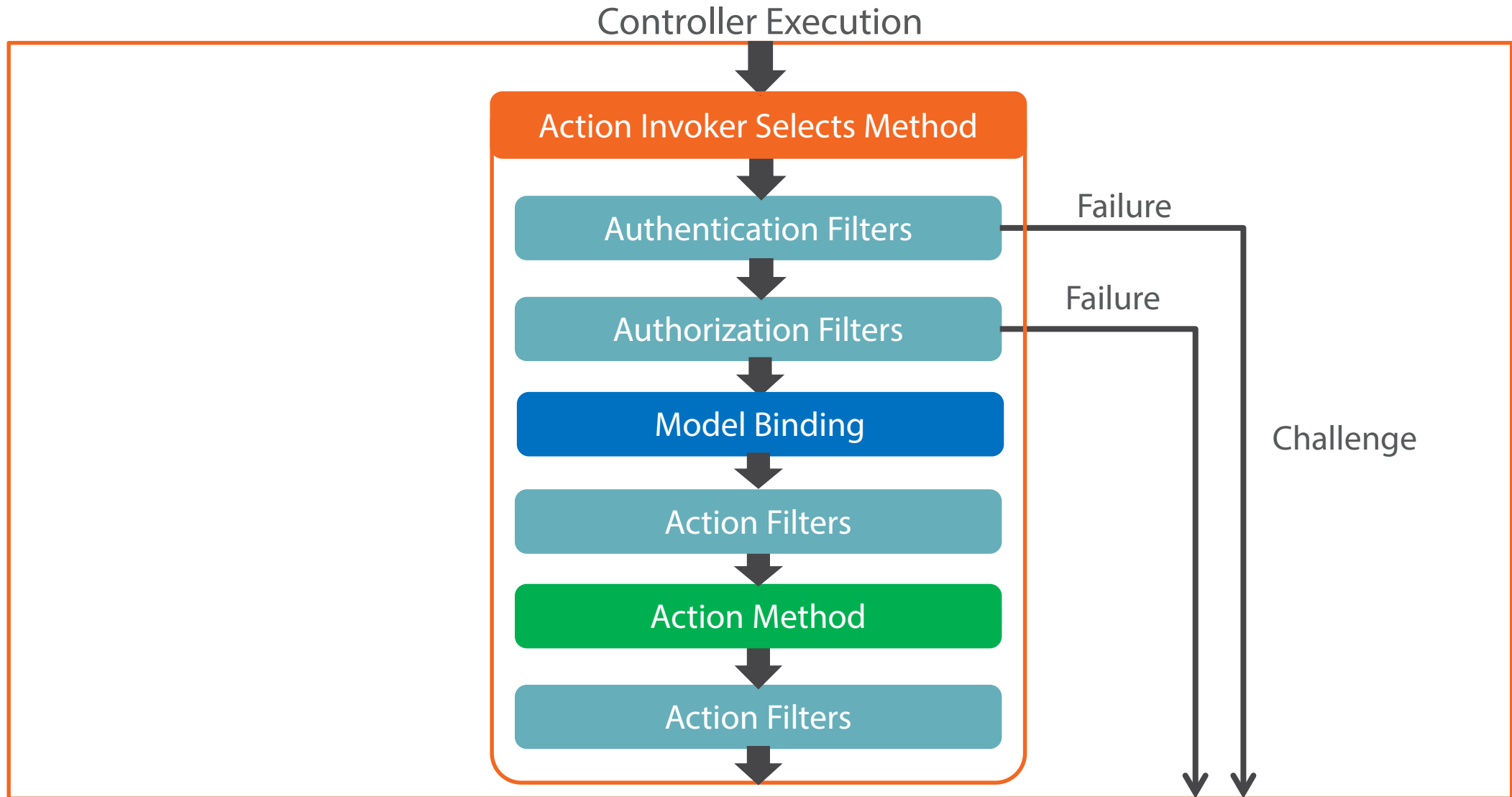
```
virtual AuthorizeCore()
virtual OnAuthorization()
virtual HandleUnauthorizedRequest
```



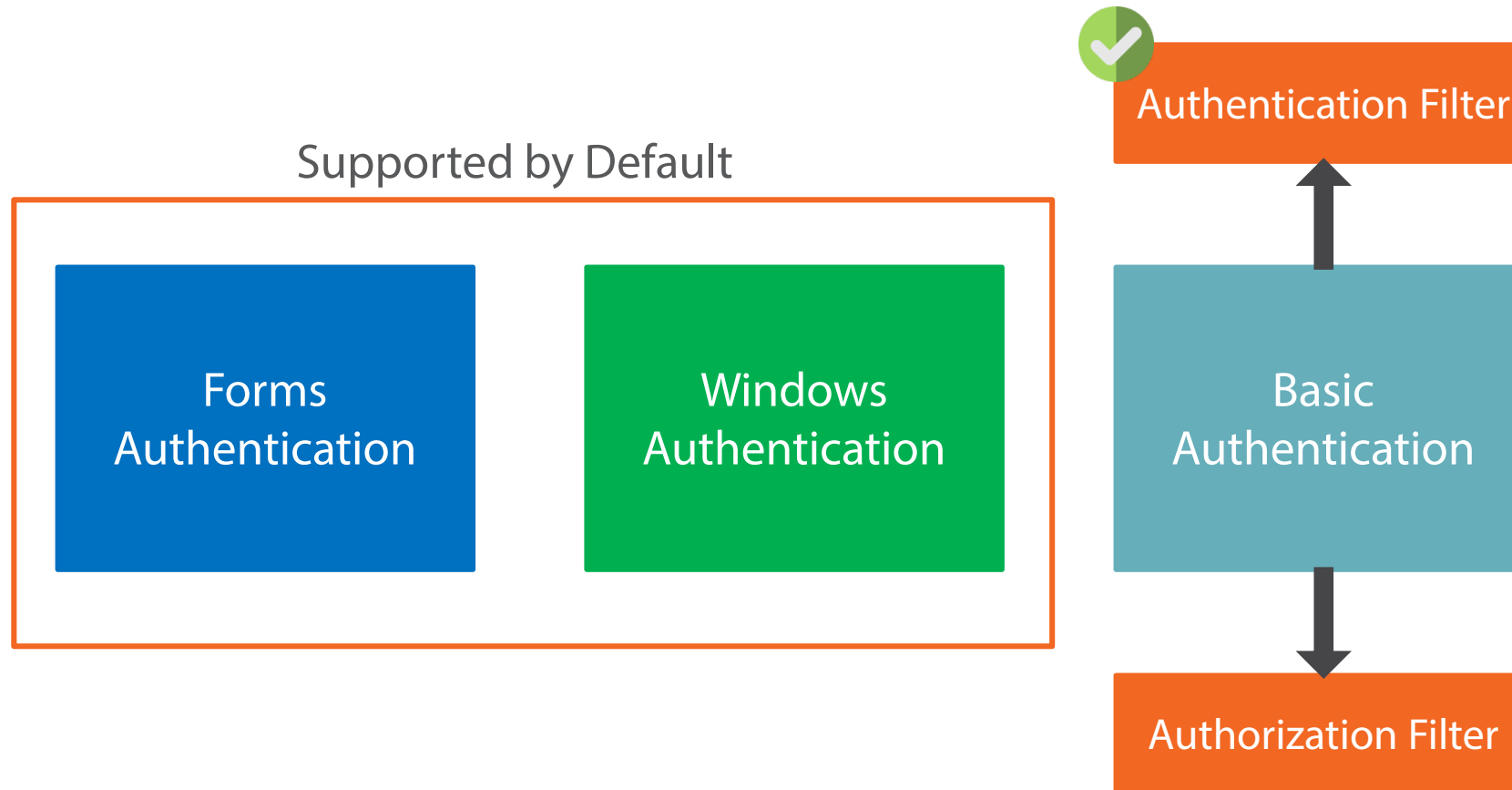
Custom Authorization Attribute

Override Methods

The Filter Execution Process

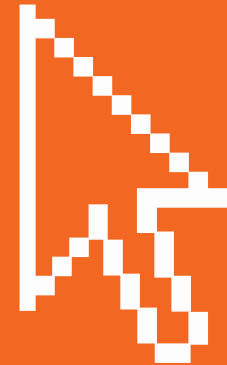


Supported **Authentication** Methods

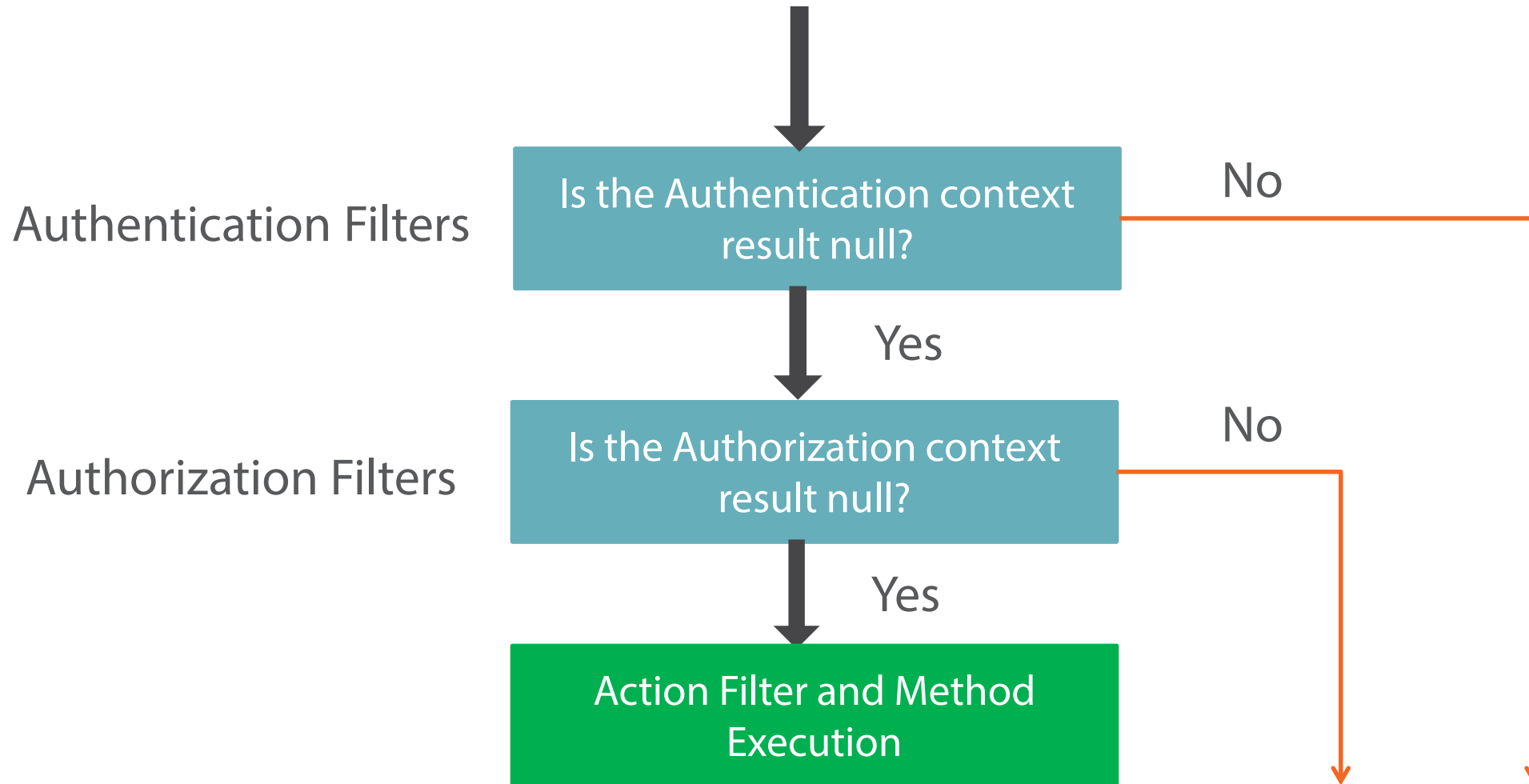


Demo

Creating a Custom Authentication Attribute



Understanding Security Filter Execution



Summary



- Authentication and Authorization Attributes can be used to implement custom security
- Both are created using corresponding interfaces
- Prevent other components from running if security checks fail
- Deeply integrated into the MVC Request Life Cycle