#### **Understanding OWIN and Katana**

What Is OWIN?



Chris Klug

@ZeroKoll | http://chris.59north.com/

#### What is OWIN?

### Open Web Interface for .NET

OWIN defines a standard interface between .NET web servers and web applications.

www.owin.org

## It is just a specification

# http://www.owin.org/

## .NET + Web = IIS

## .NET + Web ≠ IIS

# REMEMBER: It is just a specification

#### How?

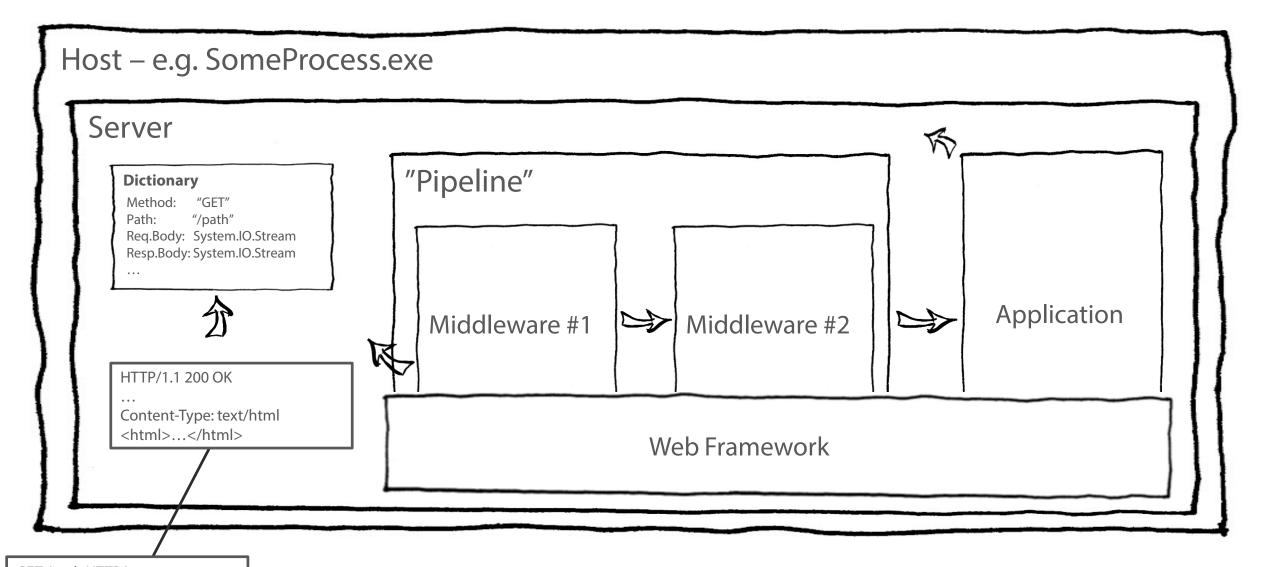
```
using AppFunc = Func<IDictionary<string, object>,Task>;
var f = new AppFunc(environment => {
   return Task.FromResult(null);
});
```

#### The application delegate or AppFunc

The simplest advanced abstraction you will see all day

#### The Parts

Host
Server
Middleware
Application



GET /path HTTP/1.1 User-Agent: SomeUserAgent Host: www.pluralsight.com Accept-Language: en-us Connection: Keep-Alive

#### **Environment Dictionary Keys**

- owin.RequestPath (string)
- owin.RequestQueryString (string)
- owin.RequestHeaders (IDictionary<string, string[]>)
- owin.RequestBody (Stream)
- owin.ResponseHeaders (IDictionary<string, string[]>)
- owin.ResponseBody (Stream)
- owin.ResponseStatusCode (Int32)
- owin.Version (string)
- [server.OnSendingHeaders (Action<Action<object>, object>)]

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#### Katana

( Not the Japanese sword kind )

### Introduction to OWIN and Project Katana

- What is OWIN?
  - Open Web Interface for .NET
  - Specification for webserver abstraction
- The parts involved
- The flow
- Environment dictionary keys
- Project Katana

# Next Module Building a Simple OWIN Pipeline