Web Services { Patricia "Happy" Hale

What is a Web Service?

According to Wikipedia: "a service offered by an electronic device to another electronic device, communicating with each other via the World Wide Web"

Web Service Specifications

& 3 Types

ø SOAP – Simple Object Access Protocol

- ø REST Representational State Transfer
- ø JSON JavaScript Object Notation
- Types specify what is transferred in the messages sent between the provider and consumer

REST

& Characterized by:

- ø State and Functionality are divided into distributed Resources
- ø Every resource is uniquely addressable using a uniform or minimal set of commands

ষ Typically GET, POST, PUT, etc

ø The protocol is client/server, stateless, layered, and supports caching

REST



Microservices

- Segment functionality into separate applications that are loosely coupled by RESTful APIs
 - Think of it as breaking a larger application into smaller functions that can work together
- & Challenges

 - ø Logging & Monitoring