Introduction

Thursday, January 28, 2021   1:07 PM

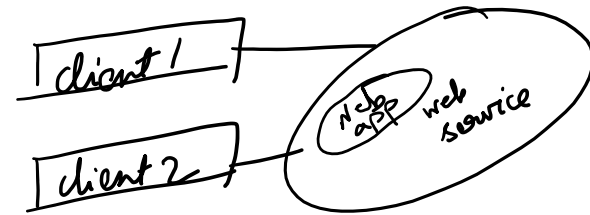What is a service?
- Tiny s/w application hosted on a web

Client: host service and get benefitted (web browser)

Using a credit card online - press submit button - all details - web service/app invoked - transaction performed

Windows client to invoke web service

Web service v/s application
- Multiple services make an application that operates 24/7
- Can be scaled up or down
  Web application need browser to run
  Web services may run without browser

Scripting languages (PHP), Java (**Java servlets**)

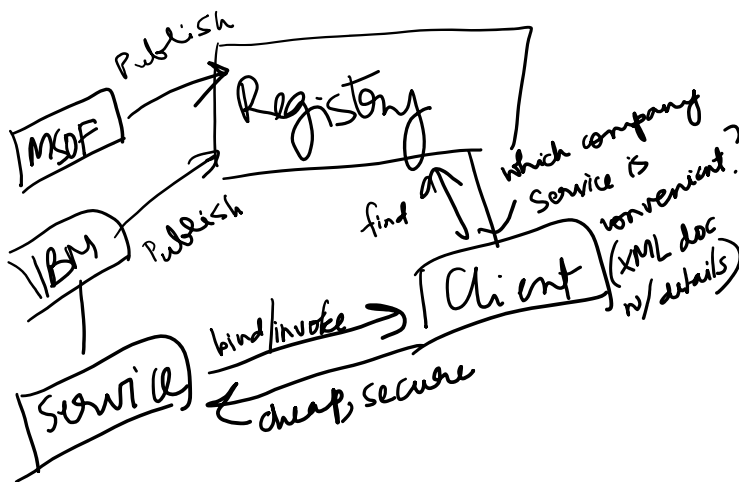Many clients can invoke web service/app, requires powerful hardware

- Internet information server (IIS)
- Apache web server (open source)

Web server is a **self-describing** application that runs on an **app server**
Eg. Weather forecast service: (WSL doc: XML that describes web service; name, parameters, where is it hosted?, secure?)

Service Oriented Architecture

Registry: centralized place where people publish information about a web service

Client uses services provided by WSPs
Company -> web service provider (WSP)

Web applications do not use service oriented architecture - no self-describing feature - in-house -

XML: information contained is marked
<contact>
  <name>Suha Amber</name>
  <country>UAE</country>
</contact>
- Gives meaningful information(data structure for any entity) (unlike HTML where there is only display information)
- Platform(OS) and language independent
- Text-based protocol
- Represent letters as ASCII values (this makes XML cross-platform and language independent)
- Selective encryption (better than HTTPS security)

Sender: creates XML
Receiver: parses XML

Altova XML editor
1. SOAP-based webservices (XML based protocol)
2. RST-based web services