

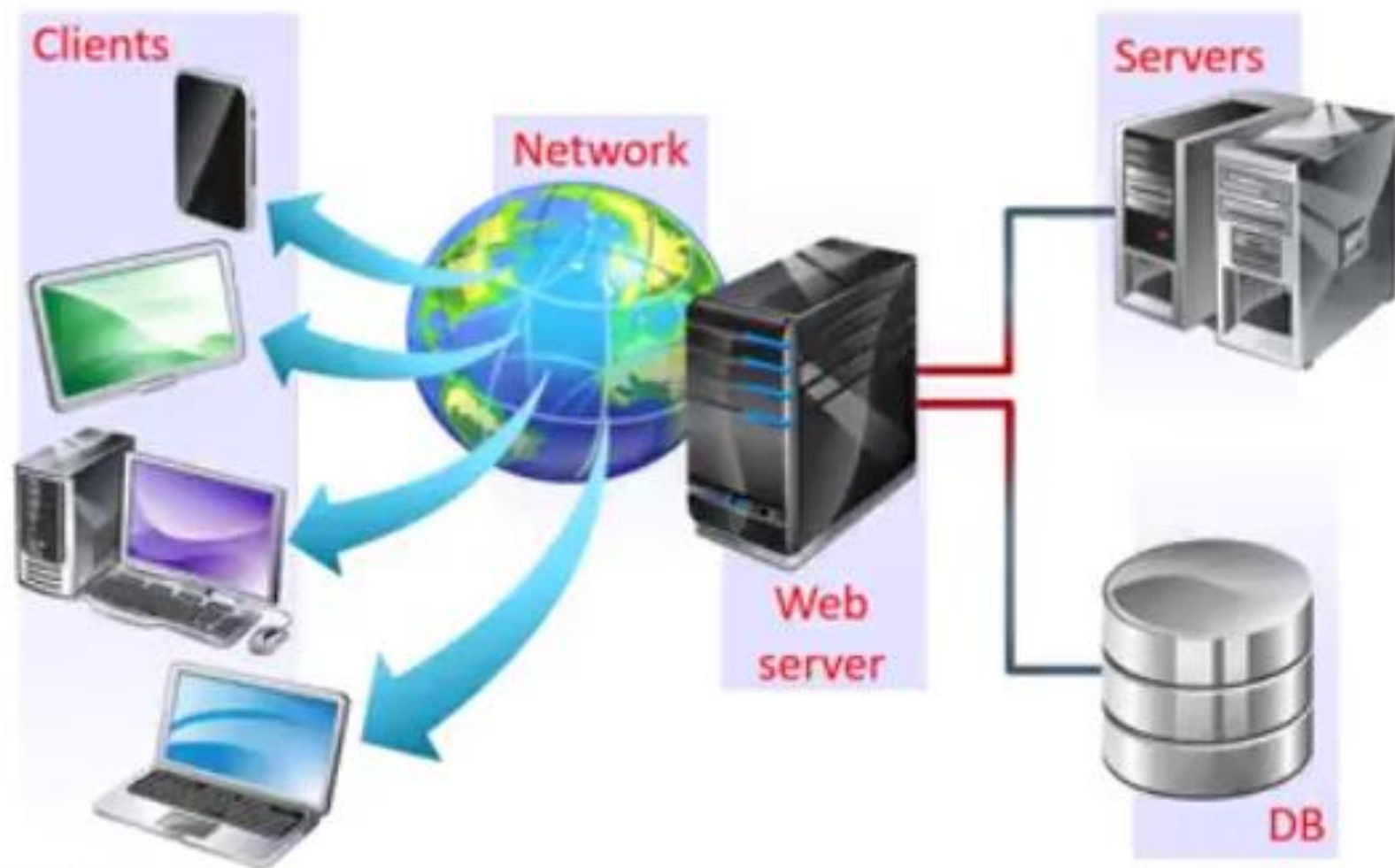
Java Microservices MOOC

Lesson 1-2: HTTP and the Web



Lesson 1-2: HTTP and the Web

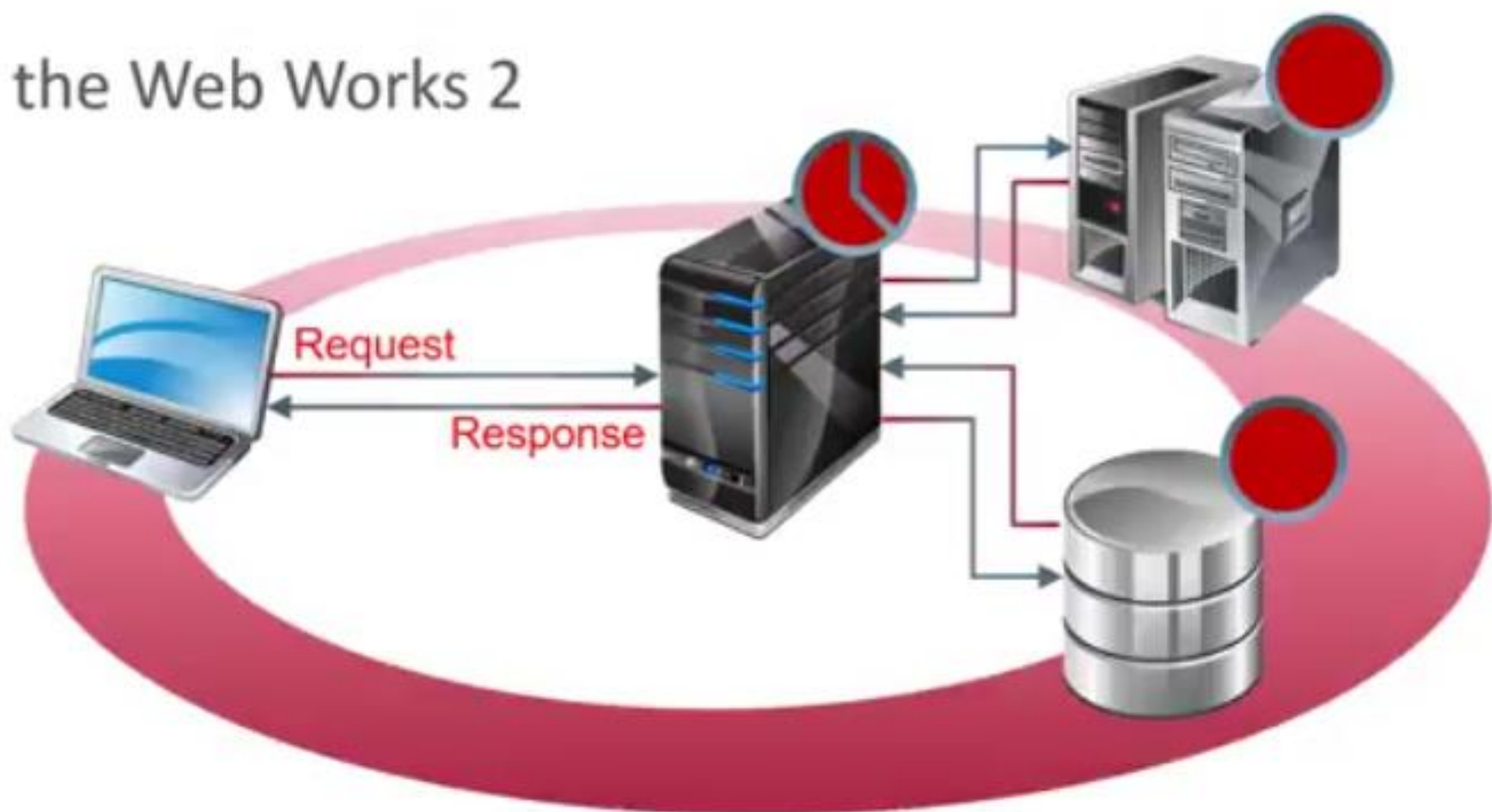
HTTP Web Architecture



How the Web Works



How the Web Works 2



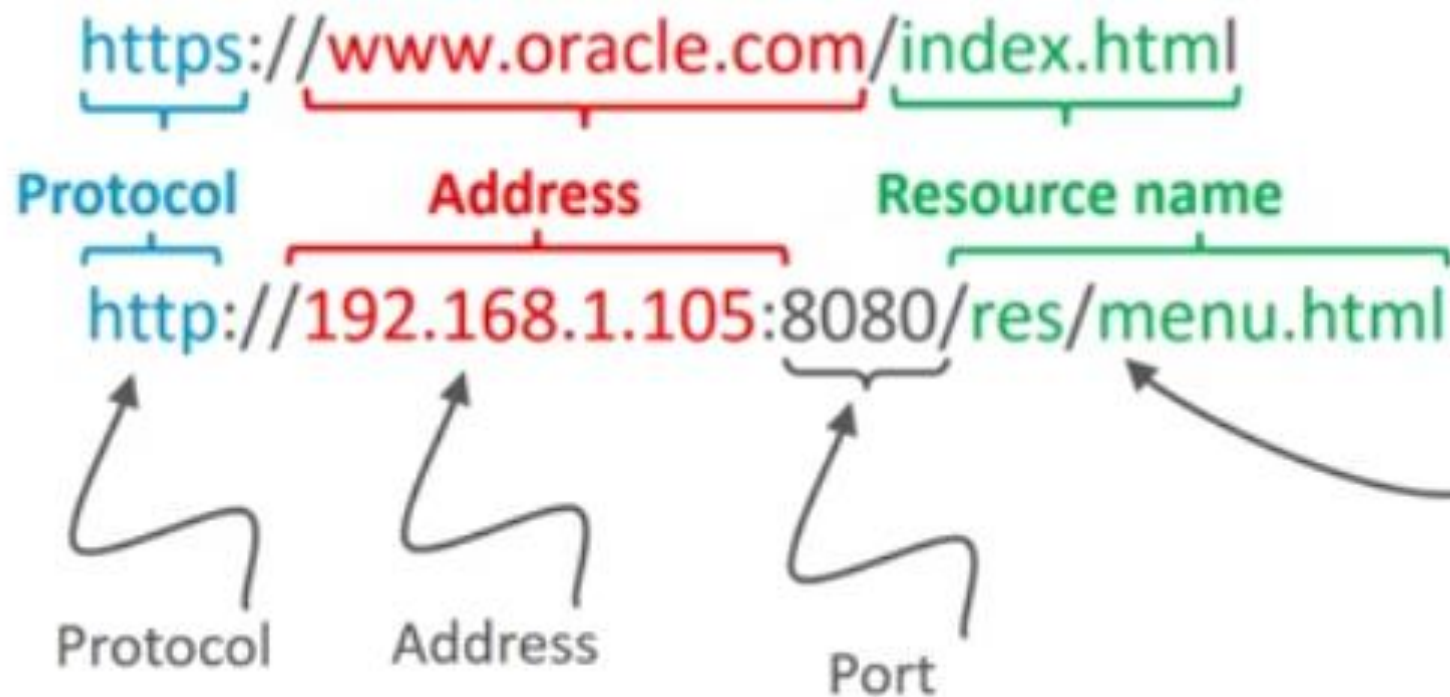
HTTP Protocol

- Clients communicate with the server by using HTTP (HyperText Transfer Protocol).





HTTP Request: URL



If no port is provided, the default for the protocol is used.

`http = 80`
`https = 443`



HTTP Request

HTTP Request Line

```
1 https://www.oracle.com/corporate/index.html
2
3 GET /corporate/index.html HTTP/1.1
4 Host: www.oracle.com
5 User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.11; rv:51.0) Gecko/20100101 Firefox/51.0
6 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
7 Accept-Language: en-US,en;q=0.5
8 Accept-Encoding: gzip, deflate, br
9 Cookie: JSESSIONID=rk1x06jLSBTM2lw5rP4g-RxfQ085dXBUH6MGs9HyXc2qVx8mlyb8!767544304!539147401
10 DNT: 1
11 Connection: keep-alive
12 If-Modified-Since: Fri, 24 Feb 2017 17:46:15 GMT
```

HTTP Headers



HTTP Response

HTTP Response Status

```
14 HTTP/1.1 200 OK
15 Content-Type: text/html; charset=UTF-8
16 Last-Modified: Fri, 24 Feb 2017 17:46:15 GMT
17 Date: Fri, 24 Feb 2017 17:47:14 GMT
18 Connection: keep-alive
19 Actual-Object-TTL: 1800
```

HTTP Headers

Response Bodies

A response body contains the content of a resource, including:

- Documents
- Images
- Audio
- Video
- JavaScript files

The client (web browser) usually knows how to handle or display the contents of the response.

The JavaScript code in web applications is run by the web browser on the client machine.

ORACLE®

For more
information

Oracle Application Container Cloud Service
**[http://cloud.oracle.com/application-
container-cloud](http://cloud.oracle.com/application-container-cloud)**

Oracle Learning Library
oracle.com/oll

Copyright © 2017 Oracle and/or its affiliates. Oracle is a registered trademark of Oracle and/or its affiliates. All rights reserved. Other names may be registered trademarks of their respective owners. Oracle disclaims any warranties or representations as to the accuracy or completeness of the recording, demonstration, and/or written materials (the "Materials"). The Materials are provided "as is" without any warranty of any kind, either express or implied, including without limitation warranties or merchantability, fitness for a particular purpose, and non-infringement.