

# Web & HTTP



# http://

HTTP is a protocol that clients and servers use on the web to communicate.

# HTTP Request & Response

**HTTP Request** is a packet of Information that one computer sends to another computer to communicate something

**Client**



HTTP Request

**Server**



HTTP Response

**HTTP Response** is the packet of information sent by Server to the Client in **response** to an earlier Request made by Client

# What are Servlets?

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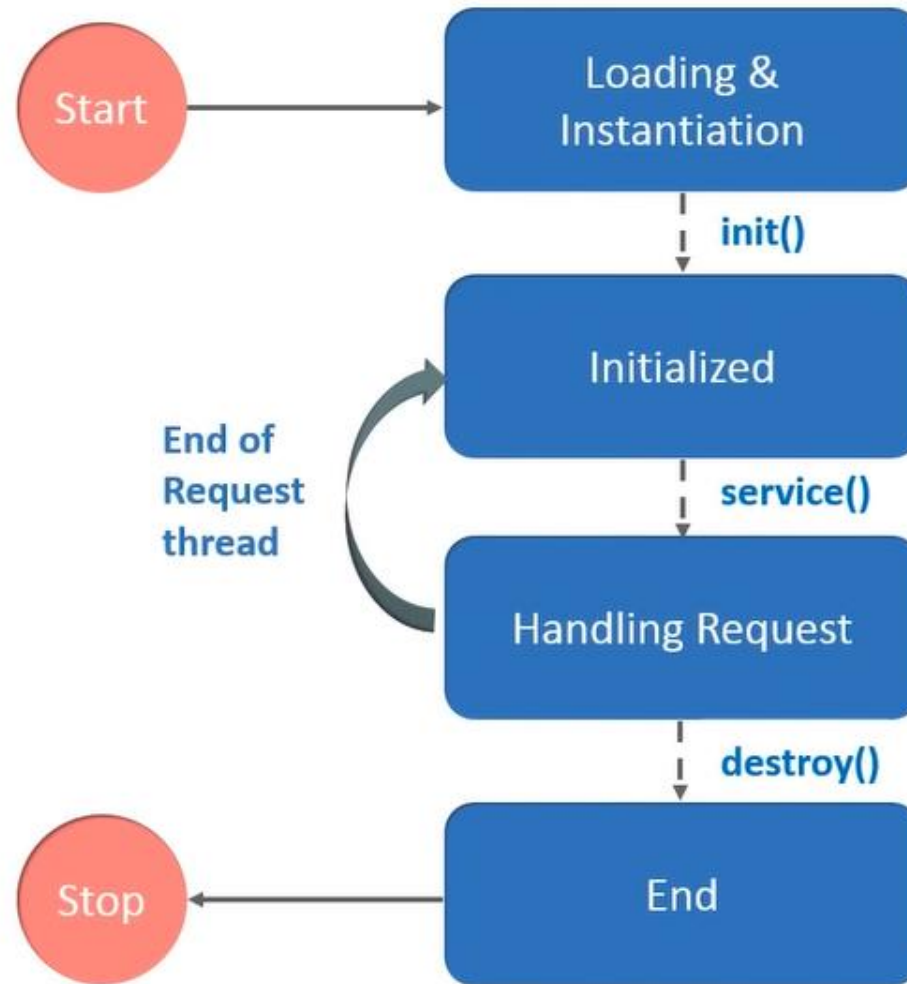
# What are Servlets?

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# Servlet Life Cycle

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# What are Java Servlets?

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There are 5 methods in servlets



`Init()`

`service()`

`destroy()`

`getServletConfig()`

`getServletInfo()`

# Servlets terminology

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**GET : Sending limited amount of data visible in URL**

`http://www.xyz.com/somepath?keyword1=value1&keyword2=value2`

**POST : Sending large amount of data in body, not visible in URL**

# Java Servlet Features

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Java Servlets are Portable in nature



Java Servlets are Scalable and Efficient



Java Servlets are Robust in nature



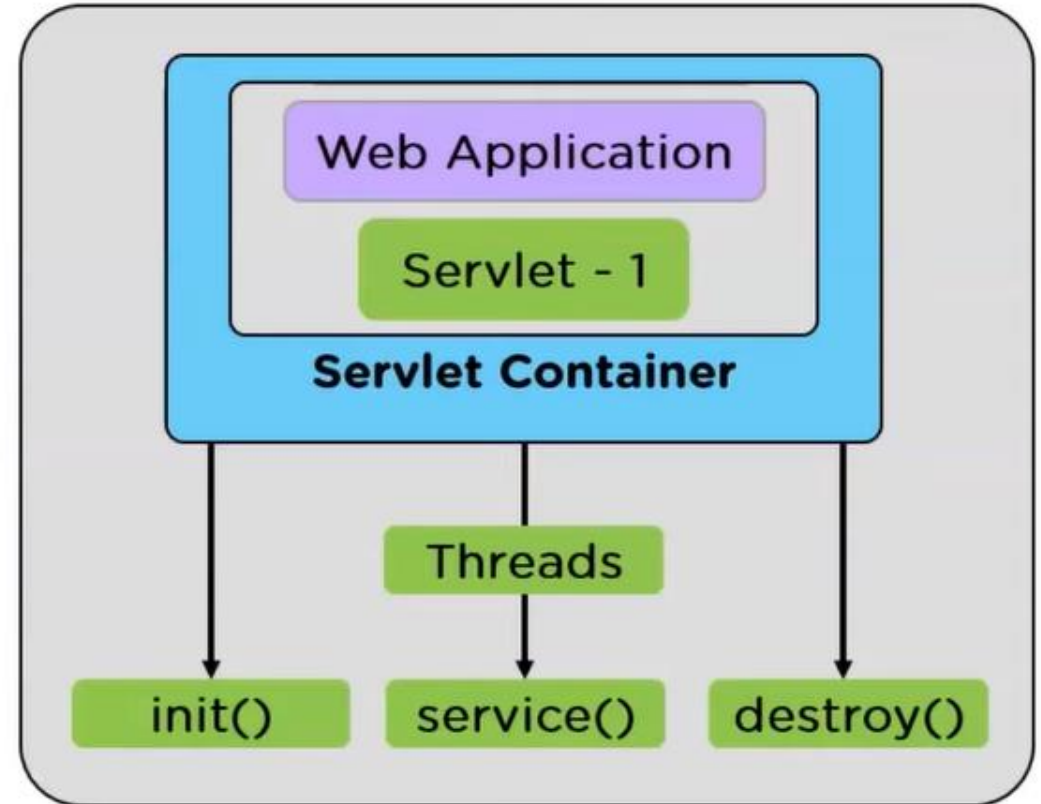
Java Servlets are Secure



# Java Servlet Architecture



**Request**



# Java Servlet Life-Cycle

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init()

The init() method is called only once in the entire process. It is called only when the servlet is created.

```
public void init() throws ServletException {  
    //Statements;  
}
```

service()

The service() method is the main method designed to perform the actual task required.

```
public void service(ServletRequest Rq,  
ServletResponse Rs) throws  
ServletException, IOException {  
    //Statements;  
}
```

doGet()

A GET request results from a normal request for a URL or from an HTML form that has no METHOD specified and it should be handled by doGet() method.

```
public void doGet(ServletRequest Rq,  
ServletResponse Rs) throws  
ServletException, IOException {  
    //Statements;  
}
```

doPost()

A POST request results from an HTML form that specifically lists POST as the METHOD and it should be handled by doPost() method.

```
public void doPost(ServletRequest Rq,  
ServletResponse Rs) throws  
ServletException, IOException {  
    //Statements;  
}
```

destroy()

The destroy() method is called only once in the end of the entire process. It is called only when the servlet is terminated.

```
public void destroy() {  
    //Destroy-Statements;  
}
```