

# 웹서버SW / WAS 소개

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- 무단배포를 금지합니다 -

# Web Server 와 WAS (Web Application Server)

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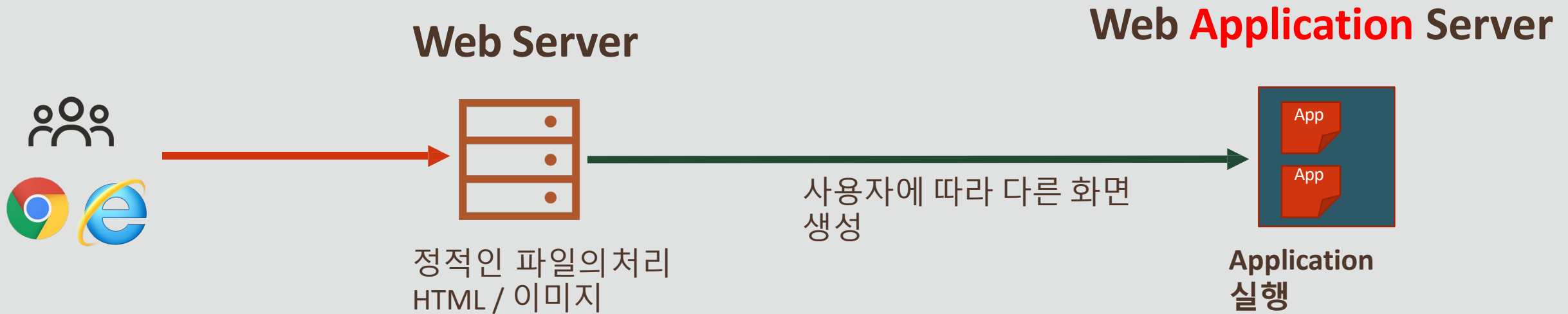
**Web  
Server**

vs

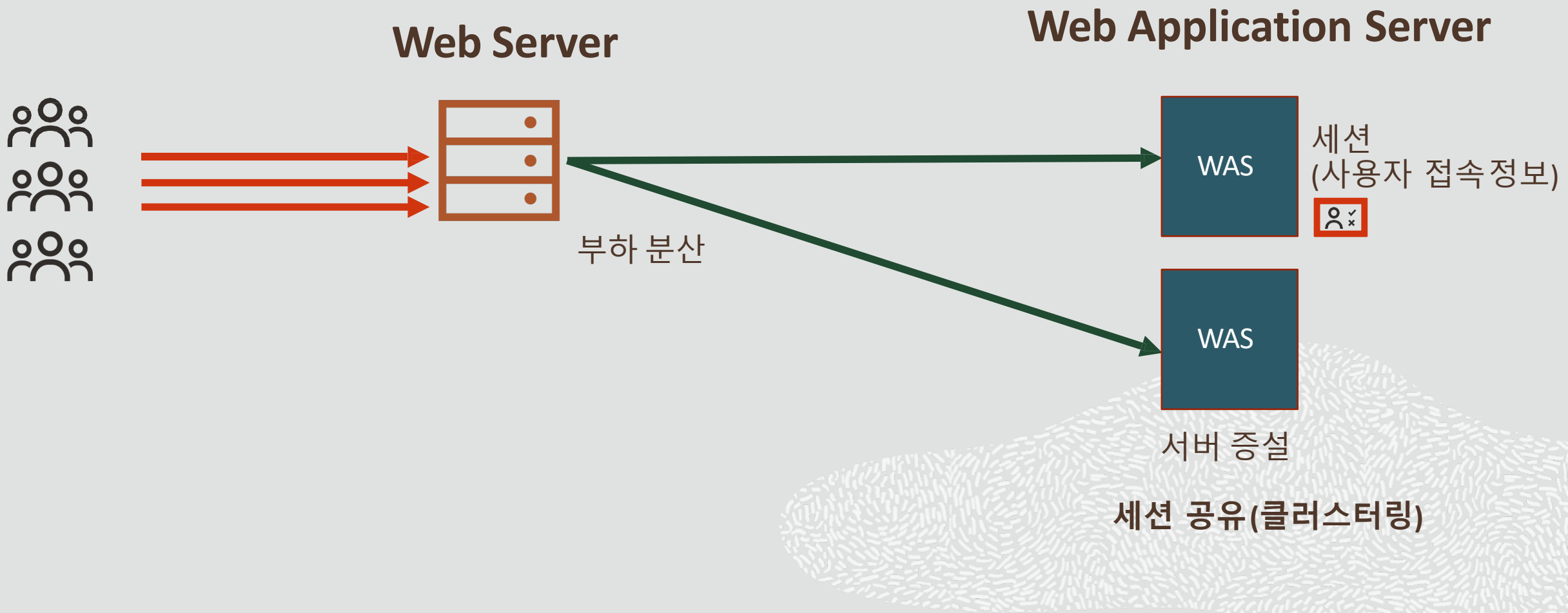
**Web Application Server**



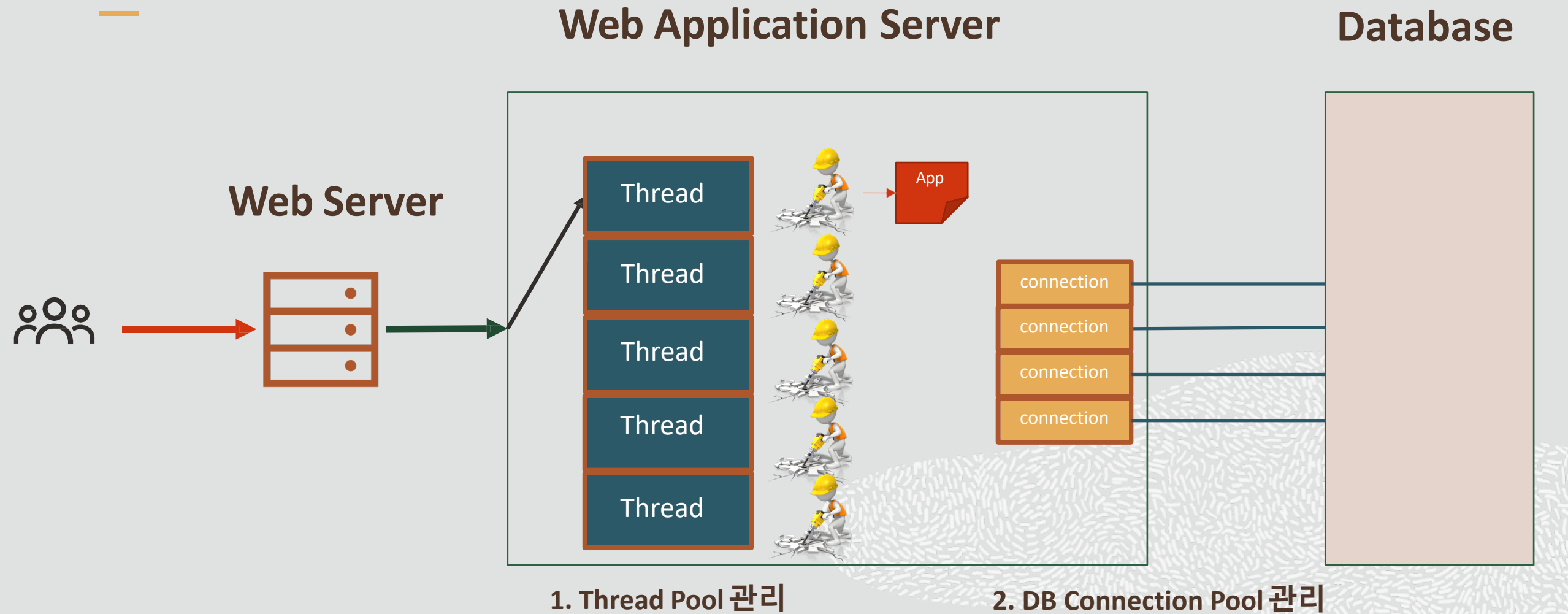
# Web Server 와 WAS (Web Application Server)



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# WAS (Web Application Server)의 주요 역할



# Web / WAS Market Trends

## Web Server

Open Source

 **APACHE**  
HTTP SERVER PROJECT

 **NGINX**

Commercial


 **ORACLE**  
iPlanet Web Server


 **ORACLE**  
WEB TIER


 **Microsoft**  
IIS


## Web Application Server

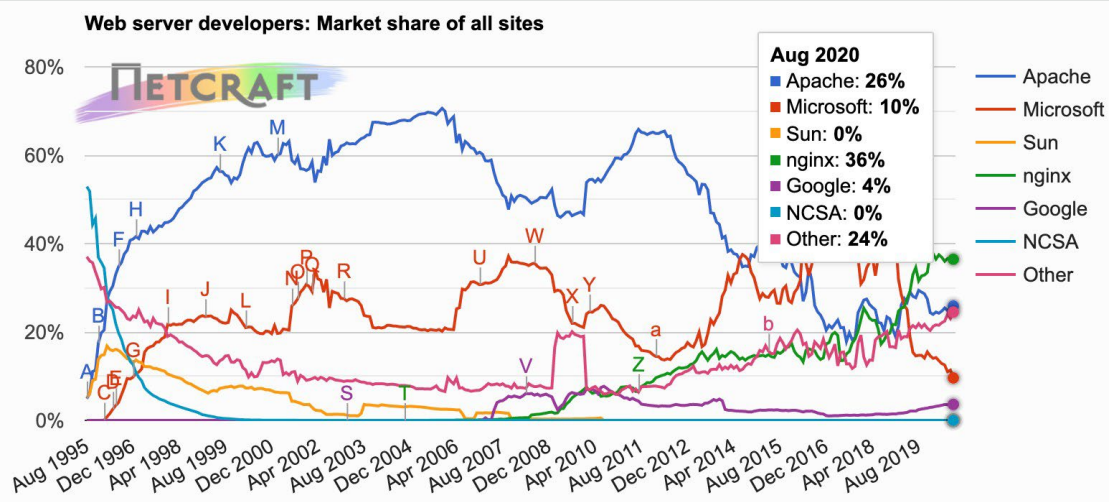
 **Tomcat**

 **JBoss**  
by Red Hat

 **Tmax**  
**JEUS**  
Web Application Server

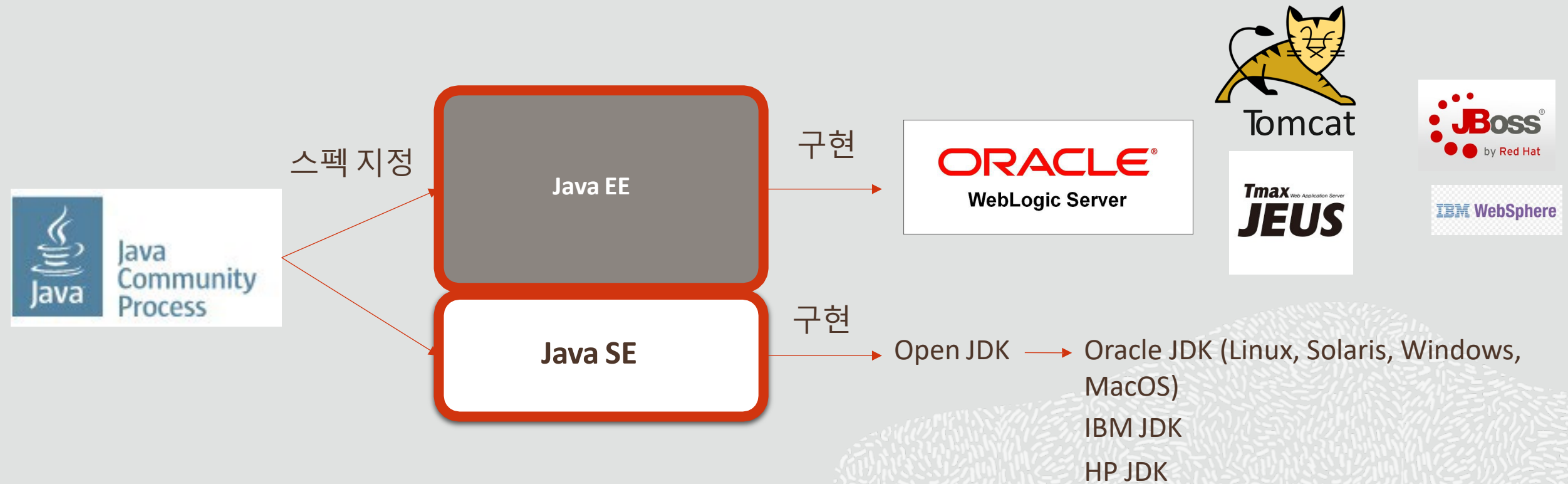
 **ORACLE**  
WebLogic Server

 **IBM** WebSphere

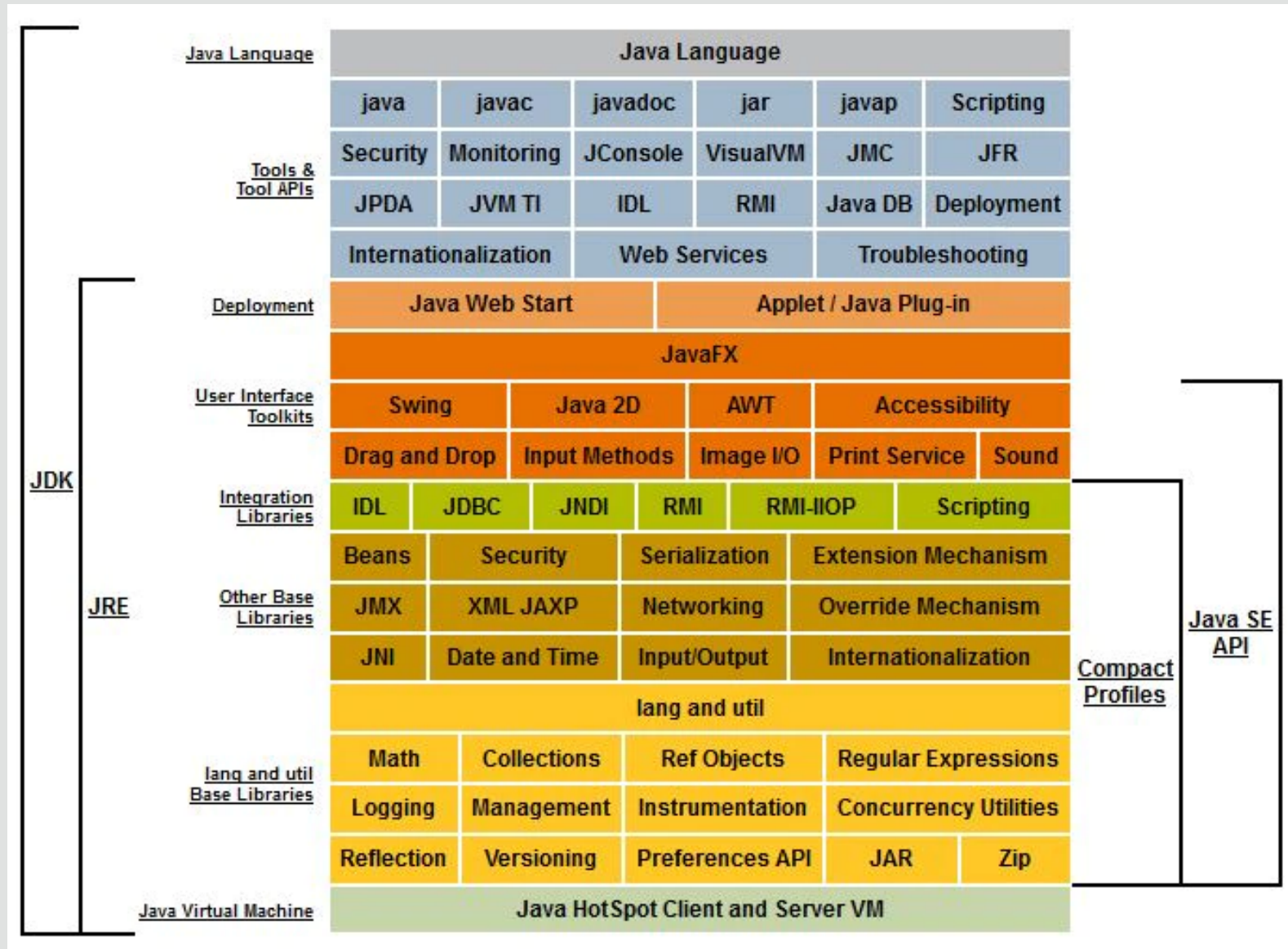




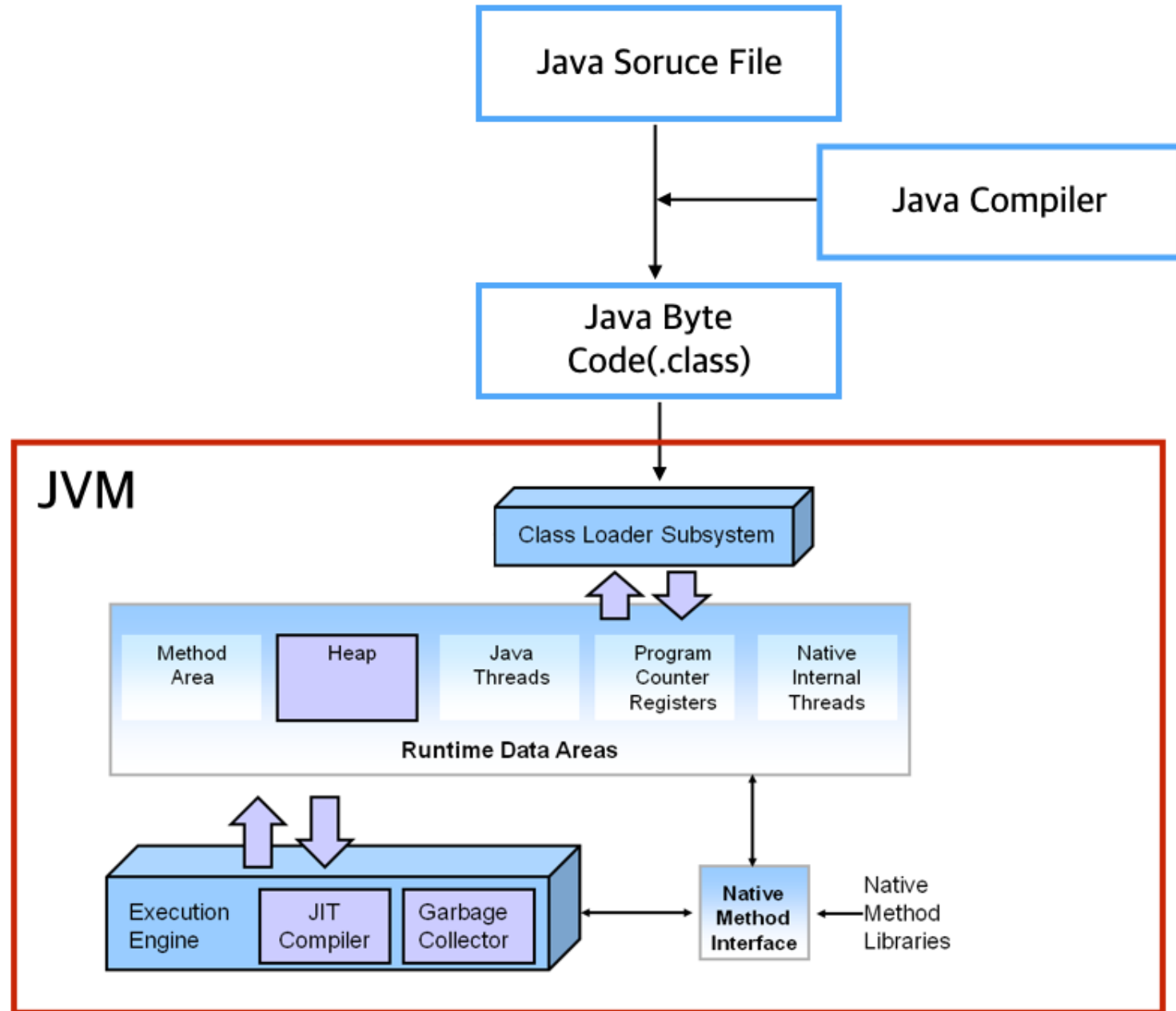
# Java EE = Java 기반의 Web Application Server



# Java SE Platform at a Glance



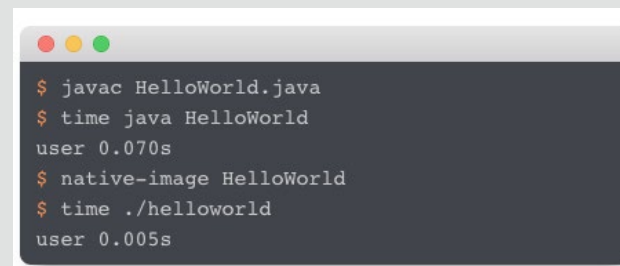




# GraalVM을 통한 성능 향상

## GraalVM

- Java compiler that delivers more compact code, faster startup and better performance
- Supports development in multiple languages
- Open source tool developed by Oracle
- Can be used as JDK
  - Includes same commands, flags and options



```
$ javac HelloWorld.java
$ time java HelloWorld
user 0.070s
$ native-image HelloWorld
$ time ./helloworld
user 0.005s
```

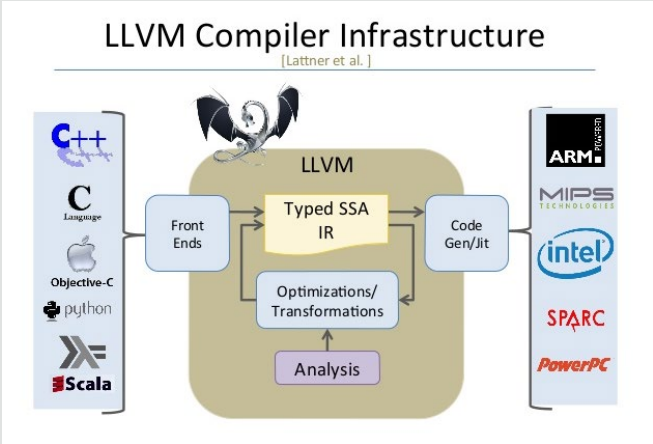
ORACLE®  
WEBLOGIC

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COHERENCE

 helidon

GraalVM™  
Native Image

# GraalVM Enterprise Architecture



- Runtime Mode
- 1. JVM Runtime Mode
  - 2. Native Image

