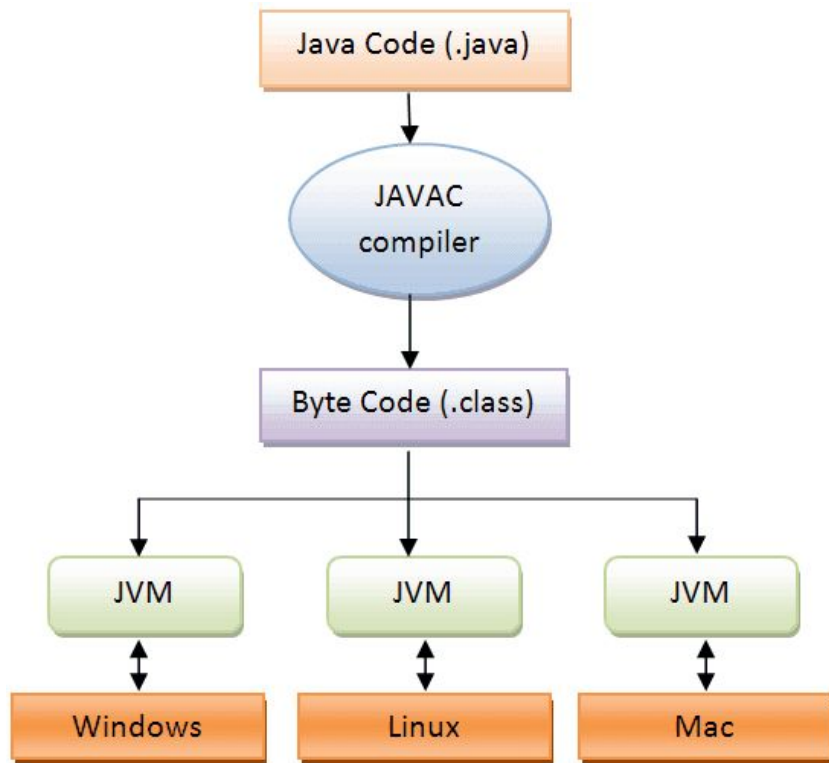


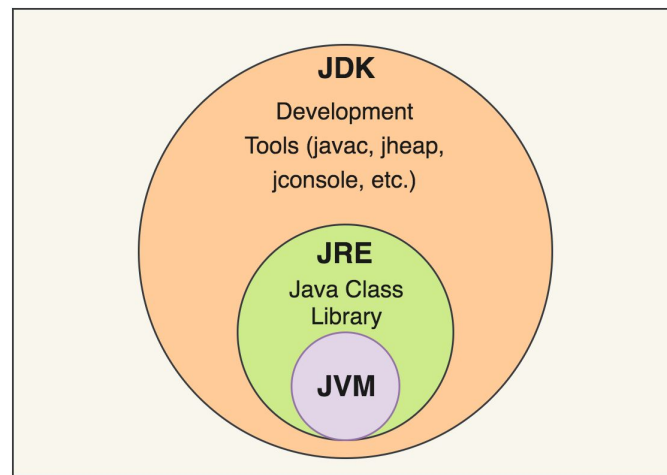
Java

- Dün - Bugün
- JVM
- Java Web
- Quarkus

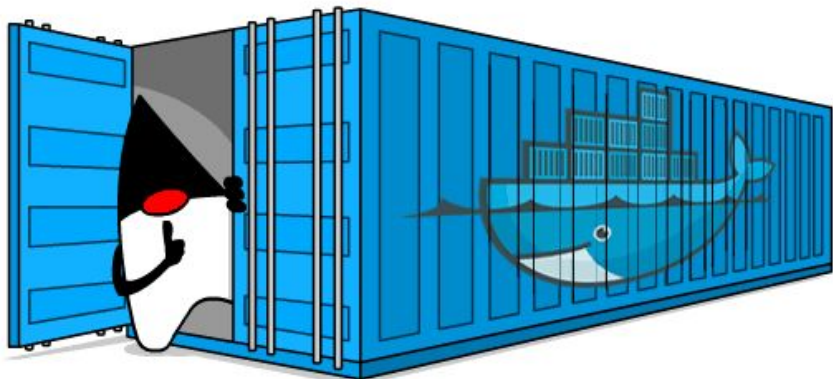
Java'nın Dünü, Bugünü



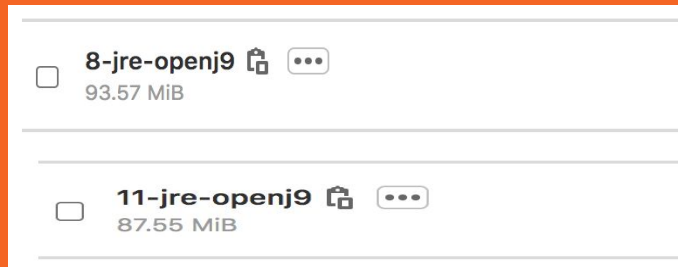
- Write once, run anywhere
- JDK > JRE > JVM



Java'nın Dünü, Bugünü



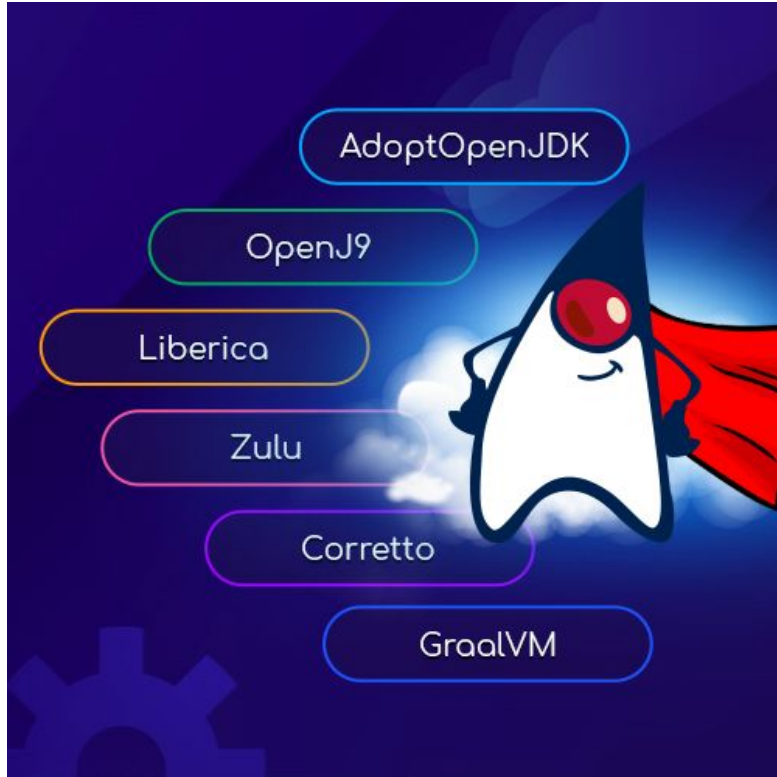
- Build, Ship and Run Any App, Anywhere
- Disposability



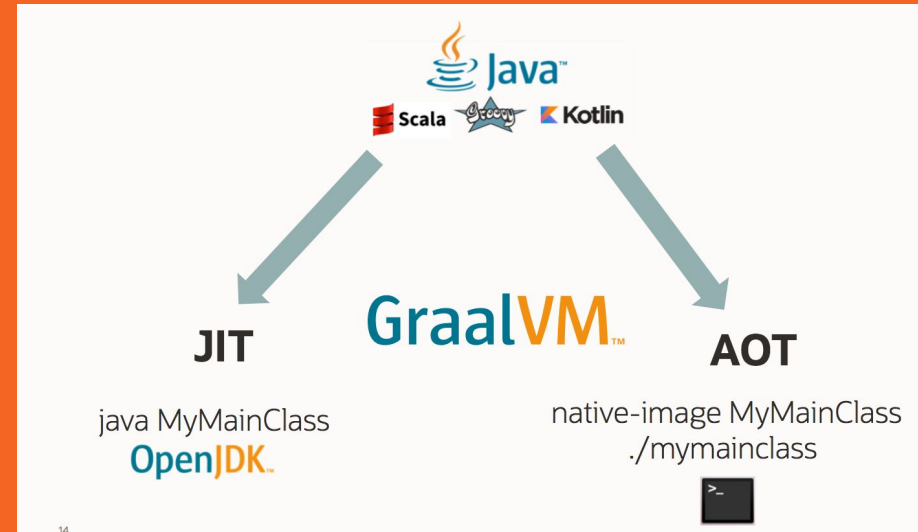
```
openjdk
sfrontregistry.trendyol.com/promotion-api
sfrontregistry.trendyol.com/coupon-batch-consumer
sfrontregistry.trendyol.com/coupon-api
sfrontregistry.trendyol.com/discount-gateway
```

8-jre-openj9	8d02e22de5d1	5 years ago	730MB
master-393-a4fb8851	15ce07dd0423	51 years ago	362MB
master-124-47d10ccf	2ab8db8eef29	51 years ago	322MB
master-354-f955017d	81bede849a75	51 years ago	341MB
master-141-23526bc9	139fe01ba742	51 years ago	318MB

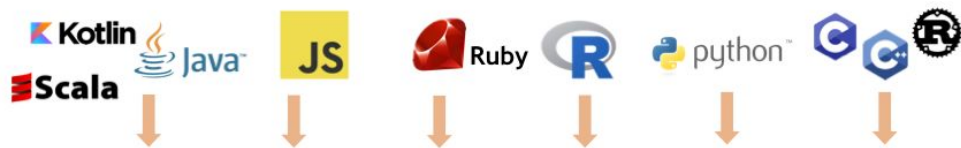
Java'nın Dünü, Bugünü



- Java VM Teknolojileri
- Compiler: AOT - JIT
- GraalVM



GraalVM



Automatic transformation of interpreters to compiler

GraalVM™

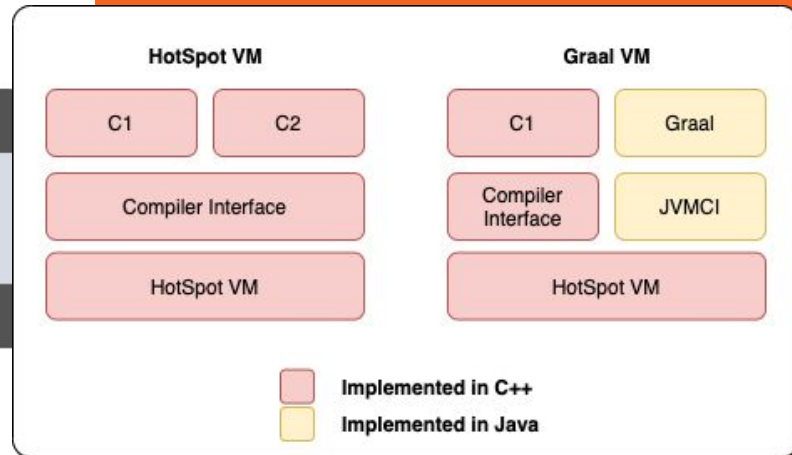
Embeddable in native or managed applications

↑
OpenJDK™

↑
node.js

↑
ORACLE®
Database

↑
standalone
>_



Java Web



- Java EE -> Jakarta EE
- Mikropofile
- Spring
- Helidon
- Microaunt
- Quarkus

Microservices frameworks integrated with GraalVM



Quarkus Kısayollar-Kaynaklar

- çalıştır:
mvn quarkus:dev
- profile göre çalıştır:
mvn -Dquarkus-profile=stage compile quarkus:dev
- dependency ekle:
./mvnw quarkus:add-extension
-Dextensions="smallrye-fault-tolerance"
- target'i sil paketle:
./mvnw clean package
- fast jar
./mvnw package -Dquarkus.package.type=fast-jar
- native
./mvnw package -Pnative
- native with graal
./mvnw package -Pnative
-Dquarkus.native.container-build=true

- <https://quarkus.io/>
- <https://code.quarkus.io/>
- <https://quarkus.io/guides/>
- <https://quarkus.io/blog/>
- <https://developers.redhat.com/products/quarkus/getting-started>
-

Spring - Quarkus Annotation

Spring	CDI / MicroProfile	Comments
@Autowired	@Inject	
@Qualifier	@Named	
@Value	@ConfigProperty	@ConfigProperty doesn't support an expression language the way @Value does, but makes the typical use cases much easier to handle
@Component	@Singleton	By default Spring stereotype annotations are singleton beans
@Service	@Singleton	By default Spring stereotype annotations are singleton beans
@Repository	@Singleton	By default Spring stereotype annotations are singleton beans
@Configuration	@ApplicationScoped	In CDI a producer bean isn't limited to the application scope, it could just as well be @Singleton or @Dependent
@Bean	@Produces	
@Scope		Doesn't have a one-to-one mapping to a CDI annotation. Depending on the value of @Scope, one of the @Singleton, @ApplicationScoped, @SessionScoped, @RequestScoped, @Dependent could be used

Spring - Quarkus Annotation

Spring	JAX-RS	Comments
@RestController		There is no equivalent in JAX-RS. Annotating a class with @Path suffices
@RequestMapping(path="/api")	@Path("/api")	
@RequestMapping(consumes="application/json")	@Consumes("application/json")	
@RequestMapping(produces="application/json")	@Produces("application/json")	
@RequestParam	@QueryParam	
@PathVariable	@PathParam	
@RequestBody		No equivalent in JAX-RS. Method parameters corresponding to the body of the request are handled in JAX-RS without requiring any annotation
@RestControllerAdvice		No equivalent in JAX-RS
@ResponseStatus		No equivalent in JAX-RS
@ExceptionHandler		No equivalent annotation in JAX-RS. Exceptions are handled by implementing <code>javax.ws.rs.ext.ExceptionMapper</code>