

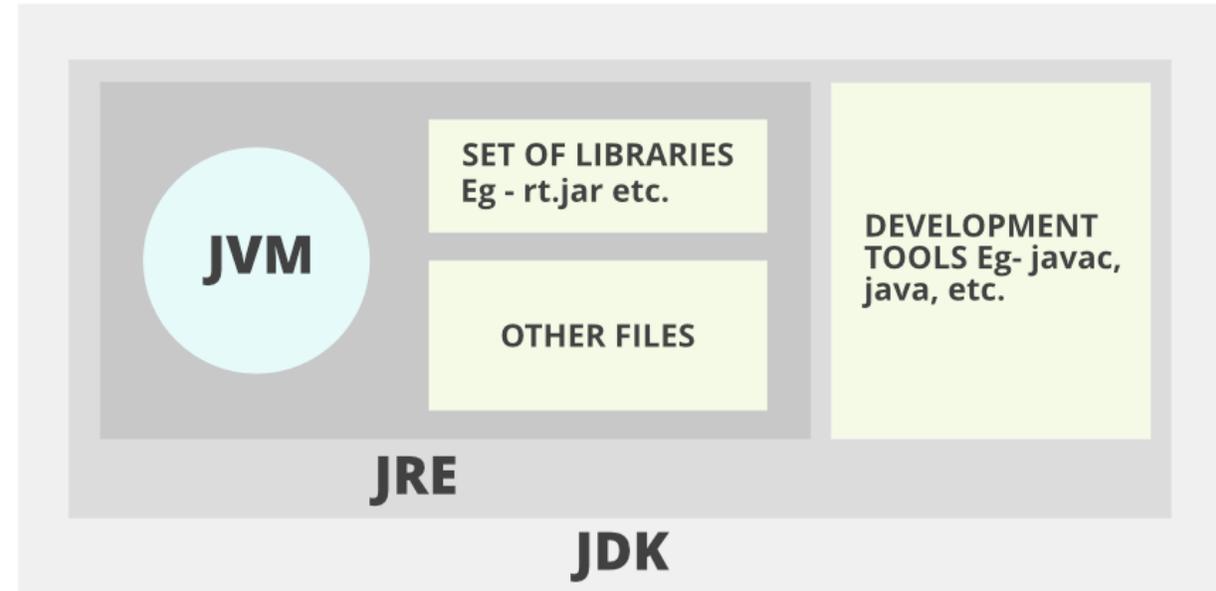
# AULA 02 - AMBIENTE DE TRABALHO

Disciplina de Backend - Professor Ramon Venson - SATC 2024

# Ferramentas de Trabalho

## Java Development Kit

- JDK 17 (LTS);
- [JDK](#) ou [OpenJDK](#).



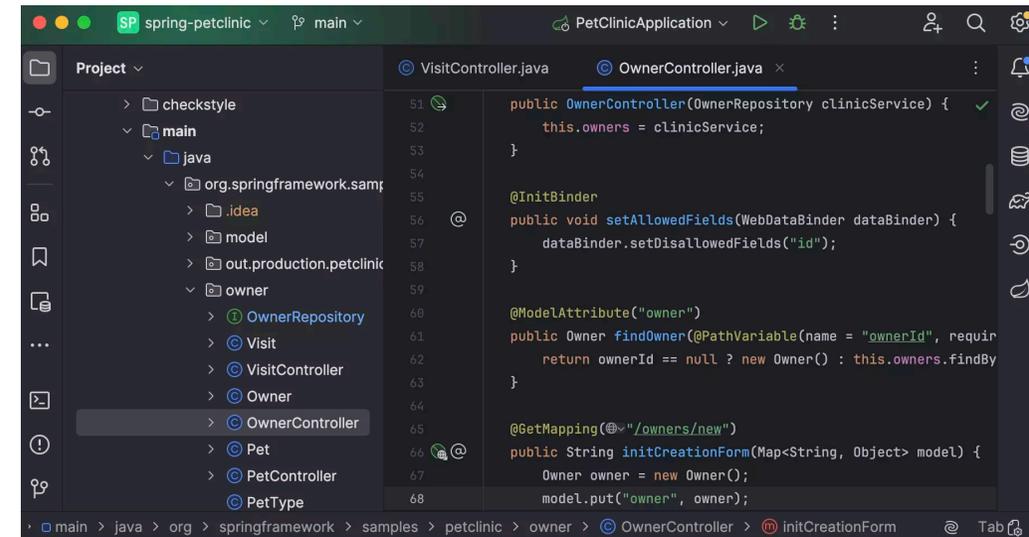


## Maven

- Ferramenta de gerenciamento de dependências e build de projetos Java;
- Integrada ao IntelliJ;
- [Site Oficial](#)
- [Maven Repository](#)

## IntelliJ IDEA

- Integrated Development Environment (IDE);
- Auxilia na escrita e execução dos projetos;
- **Community Edition.**



The screenshot shows the IntelliJ IDEA IDE interface. The top bar displays the project name 'spring-petclinic' and the current file 'OwnerController.java'. The left sidebar shows the project structure with folders like 'checkstyle', 'main', 'java', and 'org.springframework.samples.petclinic'. The main editor area shows the code for 'OwnerController.java' with line numbers 51 to 68. The code includes a constructor, an @InitBinder method, a @ModelAttribute method, and a @GetMapping method.

```
51 public OwnerController(OwnerRepository clinicService) {
52     this.owners = clinicService;
53 }
54
55 @InitBinder
56 public void setAllowedFields(WebDataBinder dataBinder) {
57     dataBinder.setDisallowedFields("id");
58 }
59
60 @ModelAttribute("owner")
61 public Owner findOwner(@PathVariable(name = "ownerId", required = true) String ownerId) {
62     return ownerId == null ? new Owner() : this.owners.findById(ownerId);
63 }
64
65 @GetMapping("/{owners/new}")
66 public String initCreationForm(Map<String, Object> model) {
67     Owner owner = new Owner();
68     model.put("owner", owner);
69 }
```



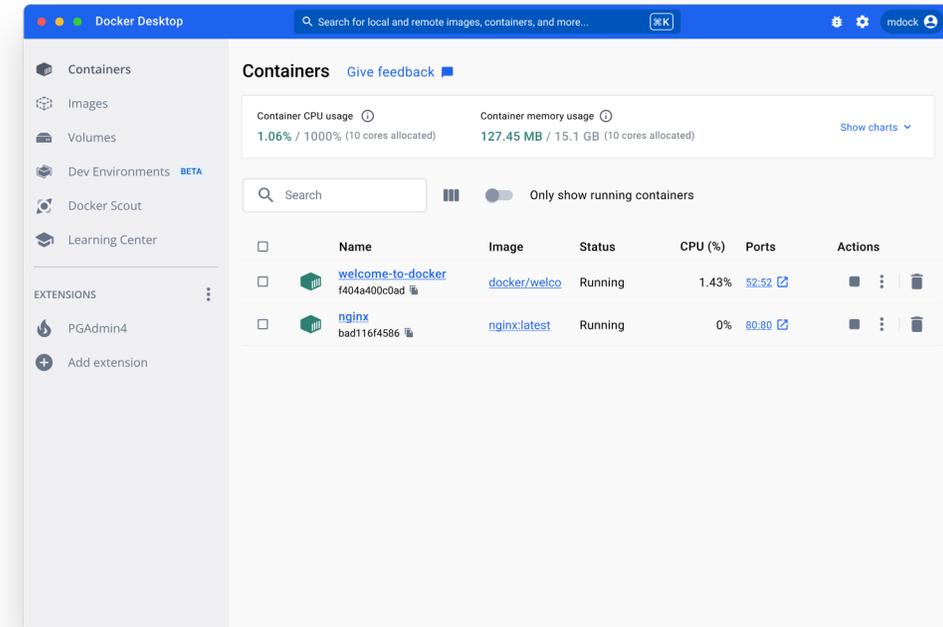
## git

- Ferramenta de Controle de Versão;
- Git Bash;
- **Lastest Release.**

# Docker

- Containerização;
- Cria ambientes isolados para a aplicação;
- Compose para multi-containers;
- **Docker Desktop**.

*docker-compose* precisa ser instalado para versões mais antigas do docker





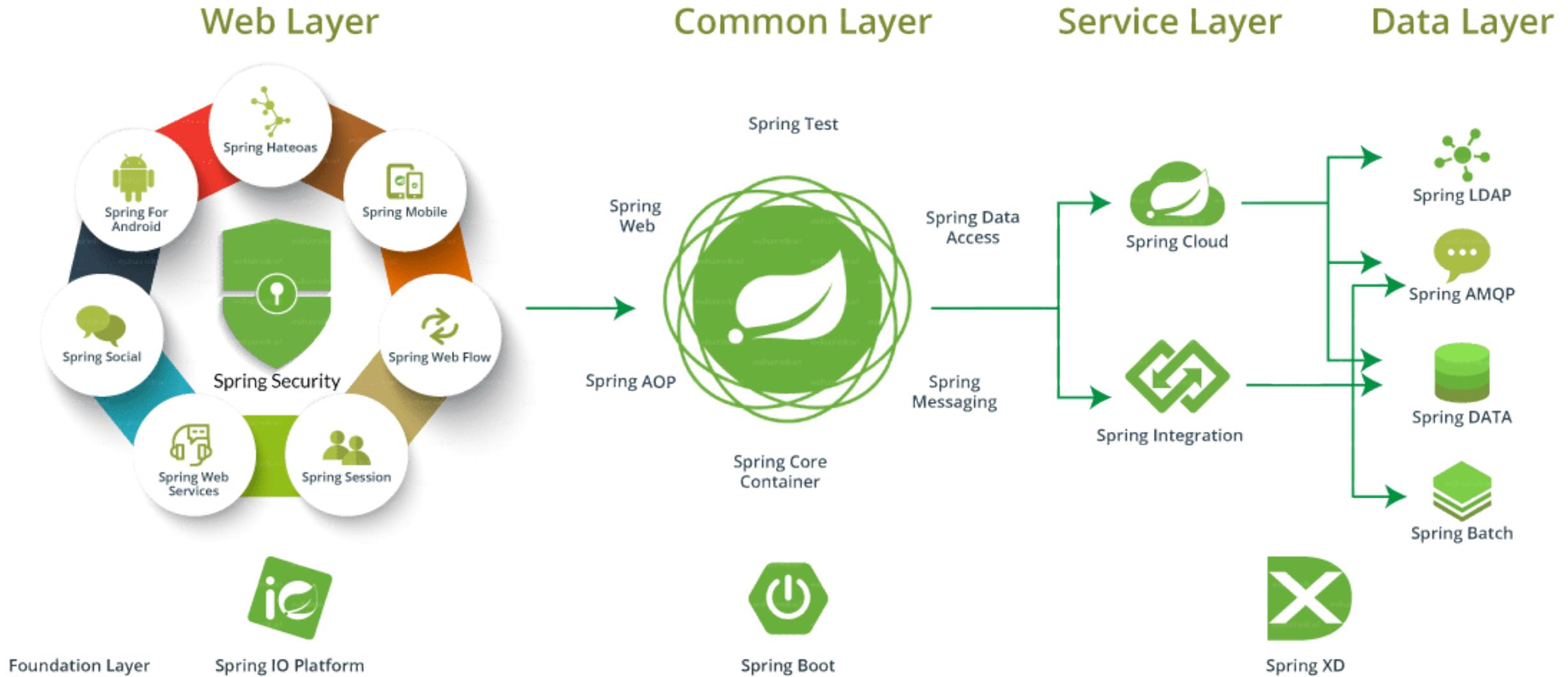
## Insomnia

- Cliente HTTP;
- Permite testar chamadas em REST APIs;
- Similar a Postman, Firecamp, Bruno;
- [Site Oficial](#).

# Spring Framwork

- Inversão de Controle (IoC);
- Modular:
  - Spring Boot;
  - Spring Web;
  - Spring Data;
  - Spring Security;
- [Site do Spring](#).







## Base de Dados

- [H2](#);
- [PostgreSQL](#);
- [MongoDB](#);
- Qualquer outra à escolha
- Podem ser containerizadas usando o Docker.

## O que aprendemos nessa aula?

- Conhecer ferramentas que serão utilizadas na disciplina;
- Organizar o Ambiente de Trabalho;