

# Capítulo 1

## Task 09: Install Exception Handler

### 1.1 Task Description

The goal of this task is to install a page fault exception handler using the `init_idt()` function. This involves setting up the Interrupt Descriptor Table (IDT) to handle page faults and ensuring the system can gracefully manage such exceptions.

### 1.2 Planned Implementation

1. **Include Necessary Headers:** Ensure the `helper.h` file is included for access to the `init_idt()` function and related utilities.
2. **Initialize the IDT:** Call the `init_idt()` function to set up the IDT and install the page fault handler.
3. **Test the Handler:** Trigger a page fault by accessing an unmapped memory address. Verify that the handler is invoked and logs the appropriate message.
4. **Log Results:** Ensure the handler outputs a message indicating a page fault has occurred.

### 1.3 Expected Outcome

- The IDT is successfully initialized with a page fault handler.
- Accessing unmapped memory triggers the handler.
- The handler logs a message such as "Page fault" to indicate the exception.

## **1.4 Implementation Details**

(To be filled after implementation)

## **1.5 Challenges**

(To be filled after implementation)

## **1.6 Final Outcome**

(To be filled after implementation)