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# Chapter 1. Introduction

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## 1.1. Why Kerneos ?

Kerneos is a WEB 2.0 project based on the Flex technology. The main goal of Kerneos is to build applications where Flex® modules can be integrated. It is used mainly to build the Flex® consoles of *Jasmine Monitoring*, *JOnAS* and *Easybeans*.

The kerneos component is the kernel of modules integrated in the Jasmine EoS console. Kerneos allows to:

- Easily integrate Flex modules, HTML pages and link to other Web pages.
- Group modules in common directories
- Have common style in modules
- Reuse modules like for example login or log.

Kerneos is the common core of all modules. It manages modules like applications and give them to users by setting icones on the desk, accessible with a web navigator.

A Kerneos module is composed of two parts: A client part, usually written in Flex®, and a server part, usually written in java.

The client part is composed of a user interface, and uses the AMF protocol to communicate with the server part. In most cases, these functions are implemented by the server part itself, but they can be implemented by a third party as well.

## 1.2. Kerneos 2 features

Kerneos 2 will improve Kerneos 1 with these capabilities:

- Security Managing. Possibility to configure roles and profiles, allowing to limit accesses to modules and services. This is done in configuration files. A next evolution could be to develop a graphical interface to manages the security.
- Improve the Flex® API from 3 to 4. All the kerneos modules have been ported to this new API (Jasmine EoS, JOnAS and Easybeans)
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