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SecureCloud

Joint EU-Brazil Research and Innovation Action
SECURE BIG DATA PROCESSING IN UNTRUSTED CLOUDS

<http://www.securecloudproject.eu/>

Project Website

D6.1

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Task No.	Task description	Partners involved[°]
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[°]This task list may not be equivalent to the list of partners contributing as authors to the deliverable

*Task leader

Executive Summary

This deliverable presents an overview of the architecture, the content and the update process for the SecureCloud Project Public Website. The current deliverable is available at:

www.securecloudproject.eu

The website is a dissemination tool in SecureCloud. It does not act as an internal collaborative tool as defined in the Description of Action Document, during the Kick-Off Meeting, in fact, it was decided to use a different instrument for collaborative purpose: the gitlab repository. This document contains a brief introduction to the focal principles considered for its development, as well as a description of its current architecture. The report covers Tasks T6.3: "Project Public Website". It is organized into the following chapters: Chapter 1 introduces the work, Chapter 2 describe the website design aspects. Chapter 3 gives an inventory of hardware and software resources utilized for the website development, finally Chapter 4 concludes the document.

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1 Introduction

This document wants to show many aspects related to the SecureCloud website in terms of technical and graphical design up to the end of March 2016. It describes also which type of contents a user can find and how these contents are organized. Furthermore, the maintenance procedures of the website will be an additional object of study.

1.1 Goal of the SecureCloud website

The SecureCloud project website www.securecloudproject.eu is fundamental for any dissemination activity. It is one of the main means through which the SecureCloud consortium offers, during the project lifetime and after the end of the project, project information, partners descriptions and results obtained to an external audience. Also a mailing list service was created to provide information about upcoming events (conferences, workshops, etc.). To summarize, primary objectives are:

- To highlight results of the SecureCloud project and disseminate them.
- To act as a thrust for cooperation among related projects and initiatives
- To raise awareness of SecureCloud project among the potential users

1.2 Target Audience

The SecureCloud website is not foreseen as a collaborative tool. The target audience consists of the following groups:

- European Commission (EC)
- Industrial visitors
- Academia researchers
- SecureCloud partners

When creating the website, the informational needs of these groups have been taken into account for what concerns scheduled events, news and relevant background documents.

2 Website Appearance

2.1 SecureCloud Logo

An well-designed logo is needed for a project to create a good and positive impression on public interested users. It is required a graphic aspect in order to imprint in an instant of time what is the project's goal, main ideas and concepts. In a nutshell, the SecureCloud logo espouses the security in a cloud infrastructure and the collaboration with Brazilian partners.



Figure 2.1: SecureCloud logo

Figure 2.1 shows the SecureCloud logo.

2.2 Website Images

Apart from the project logo, the website contains a certain amount of images aiming at a fast conveyance of information. These images are mainly based on an own production, though some logos (European Union flag and Horizon2020 logo, Brazilian and Swiss flag taken from reference pages).

2.3 Website Domain

SecureCloud domain name (securecloudproject.eu) is easy to remember. Additionally the domain is also descriptive itself by creating a links to the project name and essence (European project).

2.4 Design Principles

The success of a website is determined by the usability, beside the visual design. Usability means a user-centered design. The design and the development process are focused on the prospective user to make sure their goals, models, and requirements are met. Effective visual communication is based on two fundamental principles

- **Clareness:** providing the visitor user with a clear conceptual structure. This is related to the screen layout, relationships and navigability of the website
- **Communication:** matching the presentations to the user capabilities. This principle relates to keeping in balance legibility, typography, multiple views, and color or texture in order to communicate successfully.

SecureCloud website has been thought according to these criteria.

2.5 Website Structure

Website structures are an important factor; most of the times there is standard organizations that slightly differ. The layout of our website is designed in a clear and simple way, so that the users visitors can easily find the information in which they could be interested.

The general structure of the website is composed by the following parts:

- **Header:** this area presents on the left the project logo. On the right, the navigating menu with the website sections listed. On top of the navigating menu the widget to directly connect to twitter and facebook project accounts.
- **Footer:** the bottom area includes reference to the funding programs coming from European commission (H2020), The Federative Republic of Brazil (Ministry of Science, Technology and Innovation), Swiss Confederation (State Secretariat for Education, Research and Innovation).
- **Right Area:** this area is composed by links to news about dissemination activities.
- **Body:** the homepage body introduces the project goals.

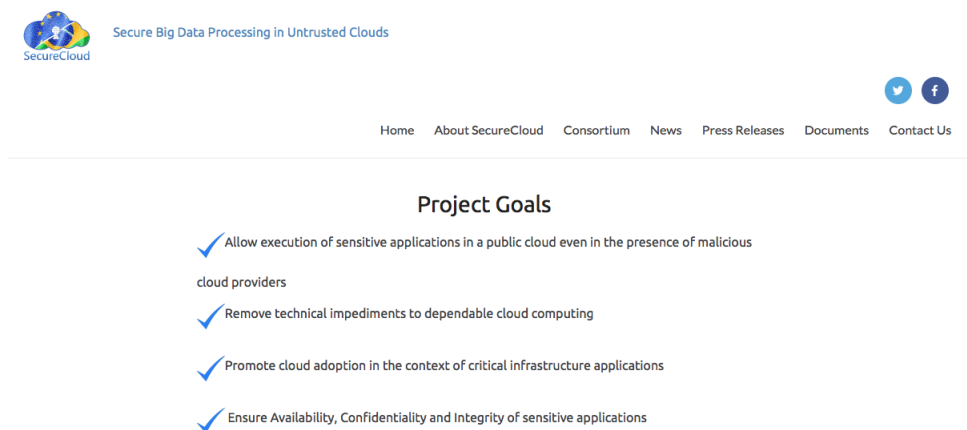


Figure 2.2: Website Structure Header

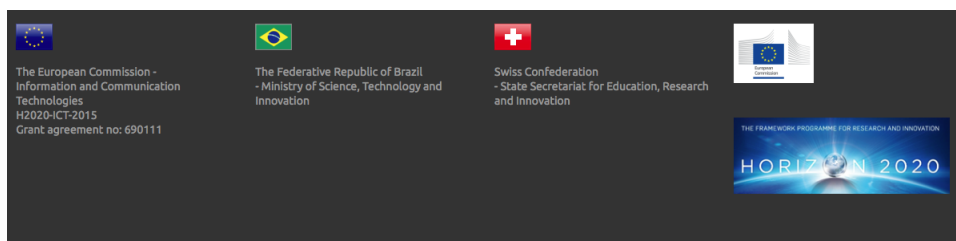


Figure 2.3: Website Structure Footer

Figure 2.2 and 2.3 provide an overview of the websites general structure.

2.5.1 Project Overview

This section (figure 2.4) is responsible of providing a high-level description of the project, more precisely an explanation of the problems that SecureCloud wants to address and how this will be accomplished. Moreover, in this area there is also an explanation of the technologies used in the project (i.e. Intel SGX, Coordination services,...) and how these can be used to address the SecureCloud challenges.

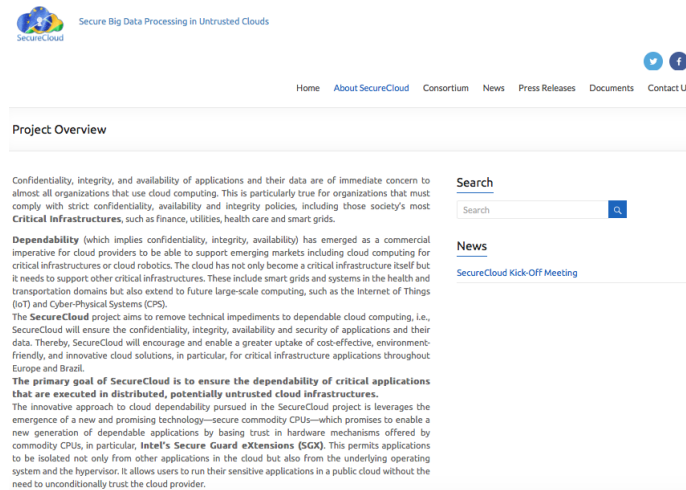


Figure 2.4: Project Overview

2.5.2 News

The news section (figure 2.5) has update of dissemination activities and events as workshops to keep the community informed. This section will also identify pertinent events for the project as ICT conferences. The news can also be found by consulting the RSS feed of the site and by the social network profile of the project (e.g. Facebook and Twitter).

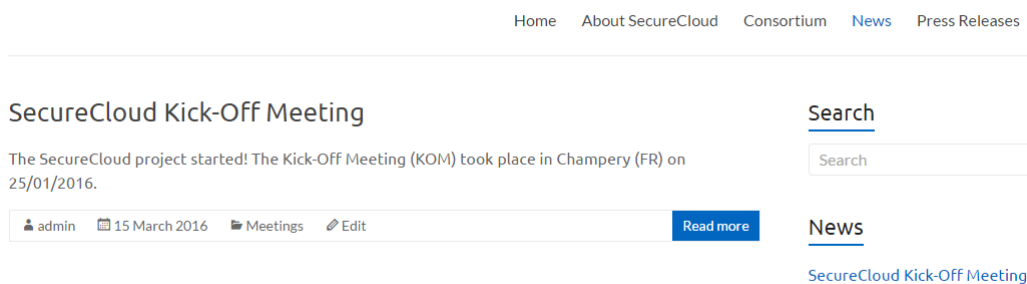


Figure 2.5: News page

2.5.3 Publications

The publication section lists the citations and abstracts of published papers by the consortium that are results of researches conducted during the SecureCloud project development.

2.5.4 Consortium

This area is dedicated to industrial and academic partners description. As shown in figure 2.6, each partner is identified by its own logo and also there is a link to another page of SecureCloud website where visitors can find information about partners. In particular, it is reported the corporate logo and it is defined the partner's role in the project, relevant publications and previous projects experiences (2.7).






Partners				
	Technische Universität Dresden	TUD	Germany	More Info
	Imperial College	IMP	United Kingdom	More Info
	University of Neuchâtel	UNINE	Switzerland	More Info
	Chocolate Cloud ApS	CC	Denmark	More Info
	SyncLab S.r.l.	SYNC	Italy	More Info

Figure 2.6: Consortium

2.5.5 Documents

All important public documents produced will be published within this section.

Documents are classified according to three categories that represent the types of public files that are produced or used within the life of the project. These are: project deliverables (only public deliverables are available), publications and dissemination material. All documents will be available in PDF format.

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The history of the Institutos Lactec begins in 1959, with the creation of the Professor Parigot de Souza Center for Hydraulics and Hydrology. It gave origin to the recognized competence in projects for large hydroelectric projects. This activity was later supplemented by the tradition of the Central Laboratory for Research and Development, in 1982, and the Materials and Structures Laboratory, in 1994. The fusion of all these units, at the end of the 90s, and the creation of the Mechanics and Vehicular Emissions Laboratory, in 2000, gave origin to the Lactec Institutes, a private and self-sustaining non-profit organization.

Website: <http://www.institutoslactec.org.br/en/?url=home/>

Figure 2.7: Partner Description

3 Website Under the Hood

Aim of this chapter is to describe technical aspects of the SecureCloud website in terms of servers and software used, defining how properties of security and dependability are met and also what type of maintenance procedures will be taken.

3.1 Servers and Software

The host server of the SecureCloud website has the following features:

- Intel Pentium Processor E5700 (2M Cache, 3.00 Ghz, 800 Mhz FSB)
- 8 GB of RAM
- 8 GB for the Hard Drive

The server is equipped with the Linux operating system (CentOS 6.5 distribution) and, moreover, with all the LAMP application stack (Linux,Apache,MariaDB,PHP). The website has been developed with one of the most important open sources Content Management System (CMS) namely WordPress entirely written in PHP. We have choose WordPress for these benefits:

- Its open source structure many programmers openly share their code online, which results in the ability of users to save developing time and costs by using existing code already written.
- Its simplicity WordPress is a simple system to operate. The Webmaster hardly needs to spend time learning the system before he/she can begin to work with and edit the site content. In addition, the system is simple to install which means theres no need for a high-level programmer for the basic setup.
- Its fast construction one of the main advantages of the system is its ability to be easily installed on a hosting server so the Webmaster can start working with it within a short timespan
- It is SEO friendly the basic system is not particularly SEO friendly, but a number of plugins can be installed to make up for it. It is relatively easy to find and apply those plugins to achieve better SEO results

3.2 Maintenance

One reason to perform maintenance is to update the website. In general, it is important to keep information up to date and to make sure that the systems used to run the site are also current, that is having the latest programs on the backend to keep the website more secure.

It is needed to realize regular checks of the following items:

- Navigation links as well as internal links.
- Style sheets.
- Update time references, including copyright.
- Automated messages from the website.
- Page visibility in search engines.

- Functionality changes (addition/ removal/modification of components) on SecureCloud users demand.

4 Conclusions

The SecureCloud website has been designed, considering all the aspects that constitute a good website: a simple and easy look and feel that follows the graphic identity of the project; well-structured contents that cover different targets groups; a fast, easy and flexible way to update content and information; and finally a good level of accessibility that will be increased during the life of the project. Feedback from users and partners will be taken into account to evolve and adapt the current and foreseen functionalities of the website.