Colaboratorio Deployment

Contents

1. Intro - Colaboratorio's scheme of services

From the point of view of services interaction, Colaboratorio is a platform that consists of a communities manager (CM) service that acts like a service director and several support services as shown in Figure 1.

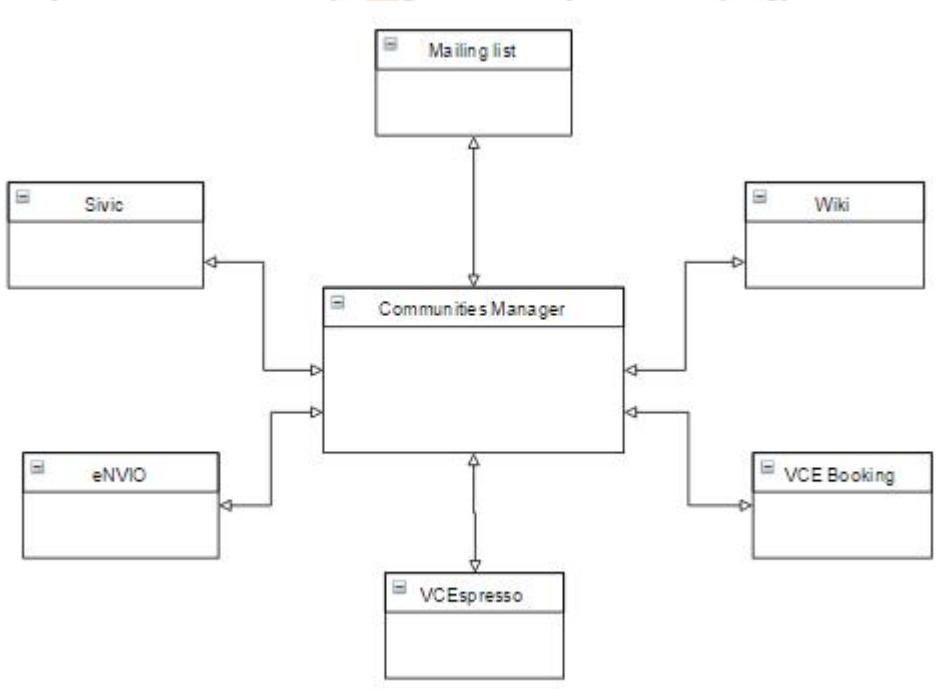

Figure 1. Relationship between Services of Colaboratorio.

The CM requires to be a central point provided by RedCLARA as a cloud service. However, the satellite services, although can be provided by RedCLARA on the cloud, can be also deployed as local services by the Regional or National Research and Education Network.

2. Quickstart deployment

For quickstart deployment, the first step in deploying Colaboratorio is to create a container to access the CM and the set of services on the cloud.

System	Requirements	Number of users	Requires a valid SSL Certificate
Container	1 Linux server 2GB RAM 20GB HD	2500	No, but preferred.

This quickstart container will host just a set of html, css, js and related files. All the services will be used as a service (SAAS) from the academic network (RedCLARA's infraestructure).

3. Beyond the quickstart

The deployment of other services will consist in install the agreed services in the National or Regional Research and Education Netwok infraestructure in a set of coordinated steps. The Network can choose what services will be provided by the Regional Network and which ones will be used from RedCLARA's on the cloud, as shown in Figure 2.

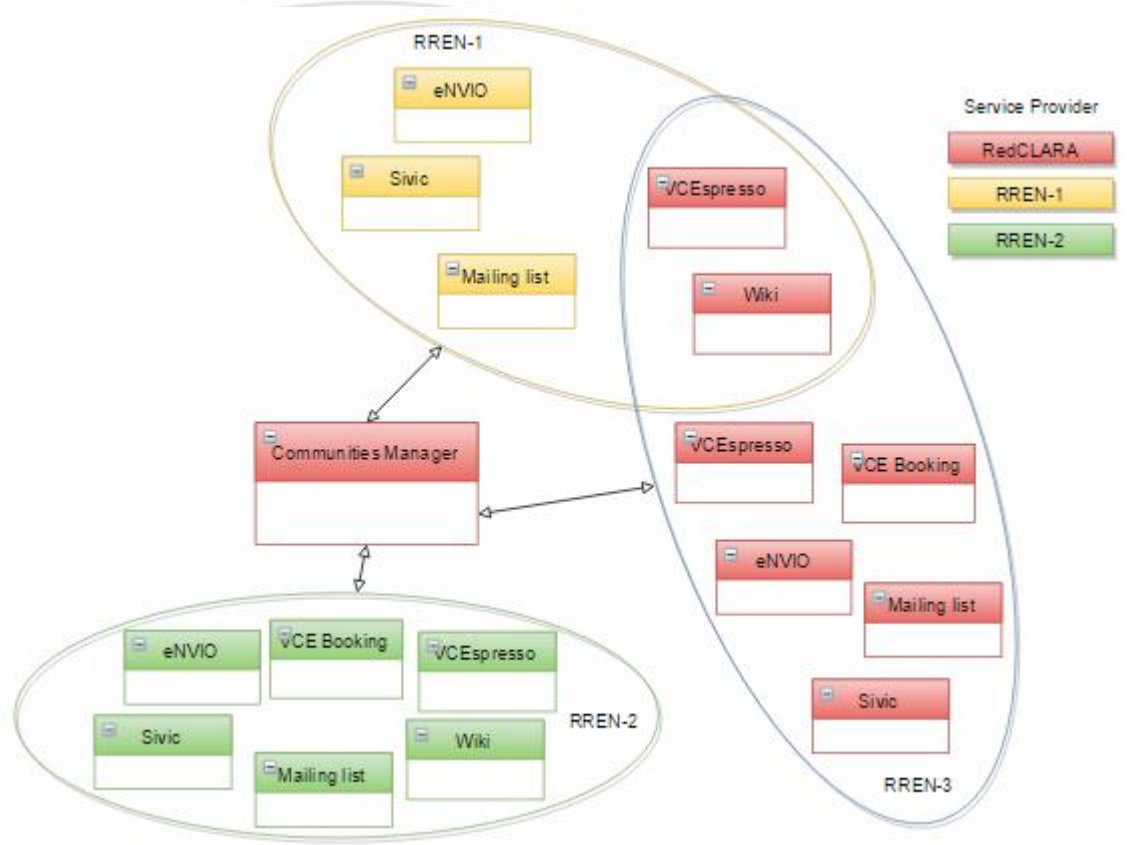

Figure 2. Ways as a Regional or National Research and Education Network can use Colaboratorio. RREN-1 is using 5 services, 2 of them, are provided by RedCLARA and three of them by the RREN itself. RREN-2 is providing all the satellite services itself. RREN-3 is using all the services on the cloud, provided by RedCLARA. In any case, they all use the CM from RedCLARA.

4. Requirements for deployable services in the Regional or National infrastructure

These services, and the requirements for install each of them on the Regional or National Network infrastructure, are shown in Table 1. Although this table does not show any software component, a special mention is done to show when the deployment requires a valid SSL certificated.

System	Requirements	Number of users	Requires a valid SSL Certificate
VC Espresso (conference system)	1 Ubuntu server (webconference host) 14.04 LTS 64 bits 4GB RAM 60GB HD 1 Ubuntu server (recording) 14.04 LTS 64 bits 4GB RAM 500GB HD (Each hour of recording consume approximately 250MB) Recomended (1 Backup server for webconference hosting): 1 Ubuntu servers 14.04 LTS 64 bits 4GB RAM 60GB HD		No
VC Espresso (booking system)	1 Linux server 2GB RAM 20GB HD	2500	Yes
Sivic (H323 booking system)	1 Linux server 2GB RAM 20GB HD	2500	Yes
eNVIO (large files transfer)	1 Linux server 2GB RAM 100GB HD	2500	Yes
Mailing list	1 Linux server 2GB RAM 20GB HD	2500	No
Wiki	1 Linux server 2GB RAM 100GB HD	2500	Yes

Table 1. Hardware requirements of migration-enabled (deployable) systems

Finally, the set of services can increase as Colaboratorio is growing, both in the sense that new services are being added and their architecture is being enhanced to allow not only user-level integration thought SAML, but also group integration through a system

that will be deployed in the MAGIC project.

5. About communities management (CM) service location

In the Colaboratorio model, the only service that is mandatory to be hosted by RedCLARA is the CM. An important element to clarify is the use of term “migration”. When mentioned in Colaboratorio, the term refers to the deployment of one or more of the supporting service elements. There are several reasons that lead to this model, among then:

a) Colaboratorio is a global communities initiative where users around the world shall be capable of searching and joining communities everywhere. This feature requires to handle a single global database or a federated mechanism to interact with communities across the globe. Due to the mentioned federated mechanism does not exist yet, the single database is the current alternative. There is some work on group management in federations (GM) carried out under the MAGIC project that is the initial step towards this, nevertheless it will be at pilot stage at the end of TANDEM project.

b) The distribution, upgrade an support model is a barrier nowadays to implement the CM in a distributed fashion. There is no mechanism to provide support of it on a distributed architecture, and no way to upgrade or maintain the deployed infrastructures.

Colaboratorio will be continously evolving. The current architecture is the most efficient model for the Regional or National Networks and collaboration between then. Deep thoughts and collaboration between all participant shall be done to advance in the model, services and the overall concepts.

6. Information about the services

Further information for final users about the services can be found in the following links,

Basic information about services:
http://www.redclara.net/index.php/en/productos-y-servicios/servicios-para-la-colaboracion

Web Tutorials:
http://www.elcira.eu/tutorials.html