

## **Implementation of services for spatial data infrastructures using free software**

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**Abstract:** One of the objectives of Spatial Data Infrastructures is the universalization of access and use of geographic information. Software as a fundamental component of them becomes a reason for discussion by those who wish to implement them. Therefore, the use of free software for the creation of services within them, direct the community concerning choosing between open licensing software and proprietary software. The objective of this study is to propose a configuration of three Geo-services: Web Features Service – WFS, Web Map Service – WMS, and Catalog Service Web – CSW, on a layer of free access and free of charge offered by the Amazon company. The configuration and deployment of open source software are described, which allows us to generate Geo-spatial services for the light or heavy clients, selecting shape-files available for download from Open Data sites.

**Keywords:** Spatial Data Infrastructures. WFS. WMS. CSW. Geo-server. Geo-network. AWS. EC2. Linux.

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