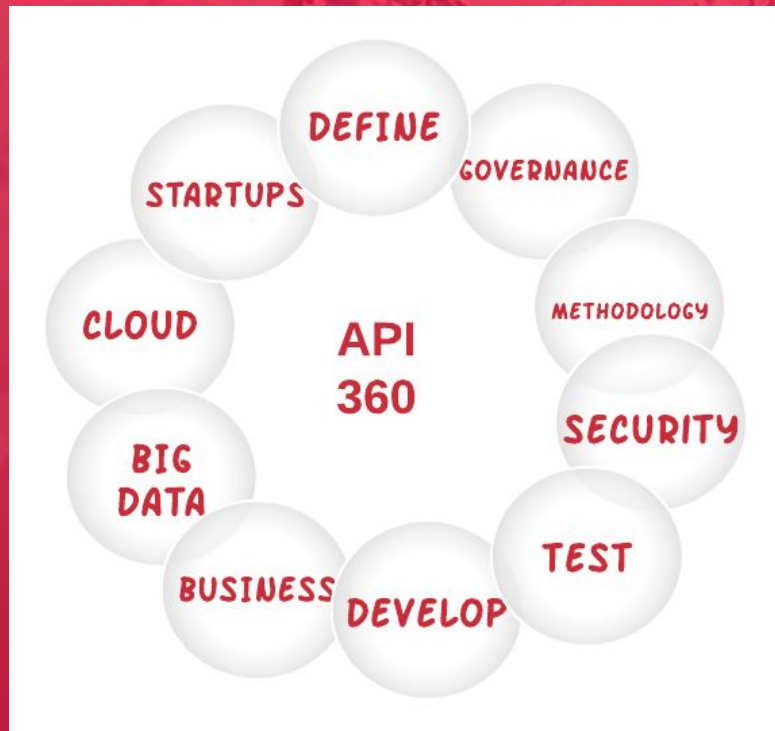


{api⚙️addicts}



Síguenos en @apiaddicts

Patrocinador: /cloudappi

Who am i?



@MarAntonio82

/marcoantonio.sanz@apiaddicts.org

```
{ "name": "Marco Antonio Sanz",  
  "positions": [  
    "CEO at CloudAppi", "CEO at LeadGods",  
    "Api Evangelist at ApiAddicts", "Teacher at ufv"  
  ] }
```

/cloudappi

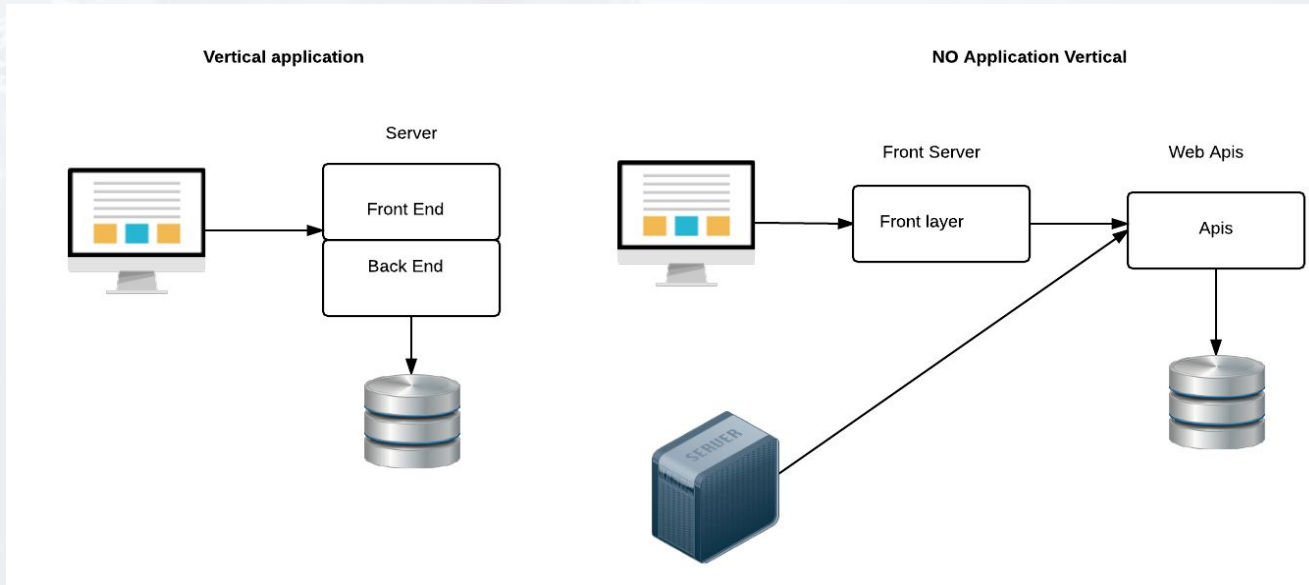
LEAD GODS

{api⚙️addicts}



What vertical application means?

The vertical applications have the front end and the back end in the same location. The front end speaks with the back end using objects.



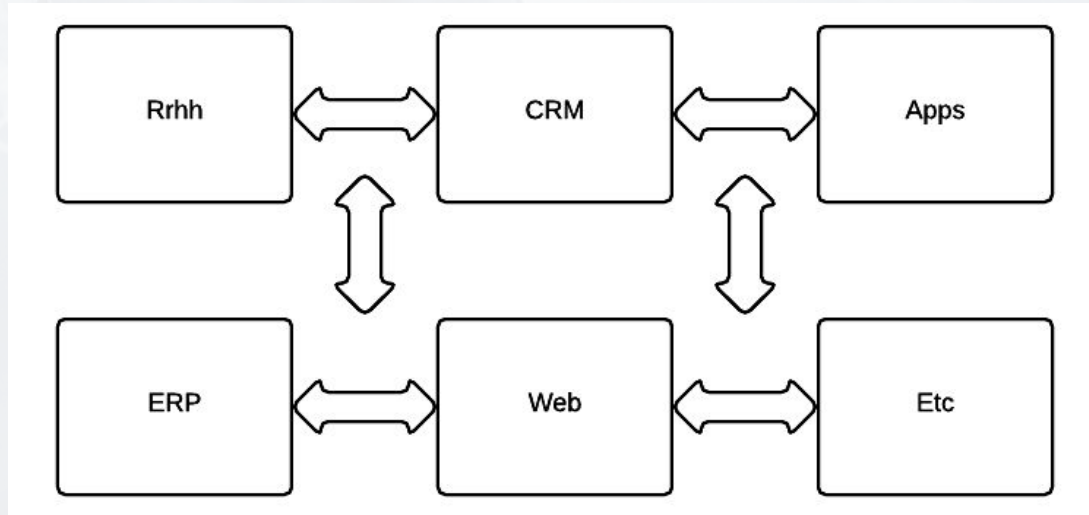
How many applications can be in the company ?

In company there can be a lot of applications deployed into the organization. You can have applications for human resources, sellers, buyers...

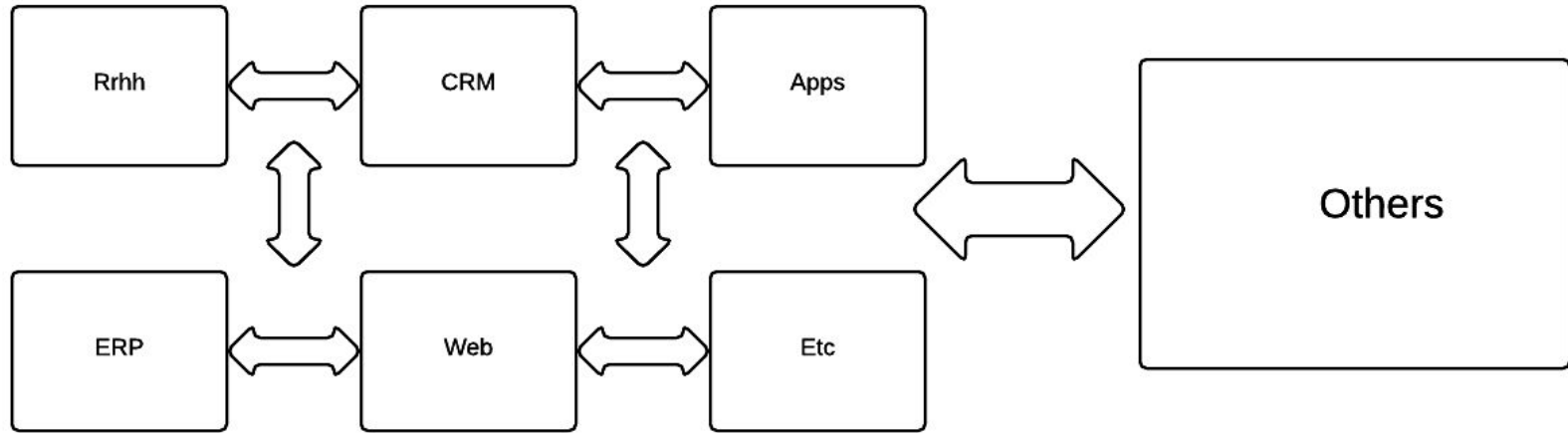


How the communication between us work?

Sometimes it uses files, the other times it uses apis, soap... this is a not efficient!!!



And, all is more complicated if you expose information to other organizations



General considerations

- Define resources
- Versioning policy
- Security policy
- Define the standard to define the apis
- Define the standard to deploy the apis
- Documentation
- Monitorization
- Testing
- Billing
- Environment



Define the resources

Define objects and their attributes into organization:

User

data:

```
{“name”:”Manolo”,”edad”:”12”}
```

RESTful API
GET PUT POST DELETE



Versioning

- Url versioning
GET XXX/ejemplo/v1.0/users/
- Header versioning
Accept:
application/vnd.company.myapp-v3+json

Content-Type:
application/vnd.company.myapp-v3+json
- When the version of api should be changed?
- How to deal with breaking backwards compatibility?



Security

- Api Manager?
- Authentication 2 / 3
 - 2 => applications
 - 3 => final users
- do you implemented a personal system authentication or do you use a standard?
- Security into the apis. ¿do you control information?
 - scopes
 - Resources and methods



Standard definition

- Restful?? level of achievement?
- HTTP error codes
- Format of entry parameters
- Special entry parameters
- Input/Output format
- HTTP Verbs
- Paging
- URL levels
- Hypermedia
- Granularity of services



Standard development

- frameworks?
- Spring data rest / hateoas (java)
- restify / express (node.js)
- SDK: For what languages? Development philosophy of SDK
- Should we start some code generator?



Documentation

- Documentation format
 - Doc
 - HTML
 - RAML / Swagger
- Where do we leave the documentation for developers? Present version / previous versions
 - who manages the update documentation?



apiary



Monitoring

- Statistics of use
 - Number of requests per app
 - Number of requests per user (if it's possible)
 - Number of requests per resource
 - Number of requests per developer
 - Number of requests per http code response
- Alerts



Testing

- Integrations tests.
 - ¿Do you develop your integration tests?
 - ¿Do you use external tools to implement tests?
- ¿Do you go to automatize tests?
 - Jenkins / jmeter / soapui / postman
- ¿what can i test?
 - Data
 - Http code response



Jenkins



Billing

- Payment methods
 - Api Managers can help me
- Billing model
 - Requests
 - Services
 - Data (Scopes?)
- Can you afford to pay a developer for using your



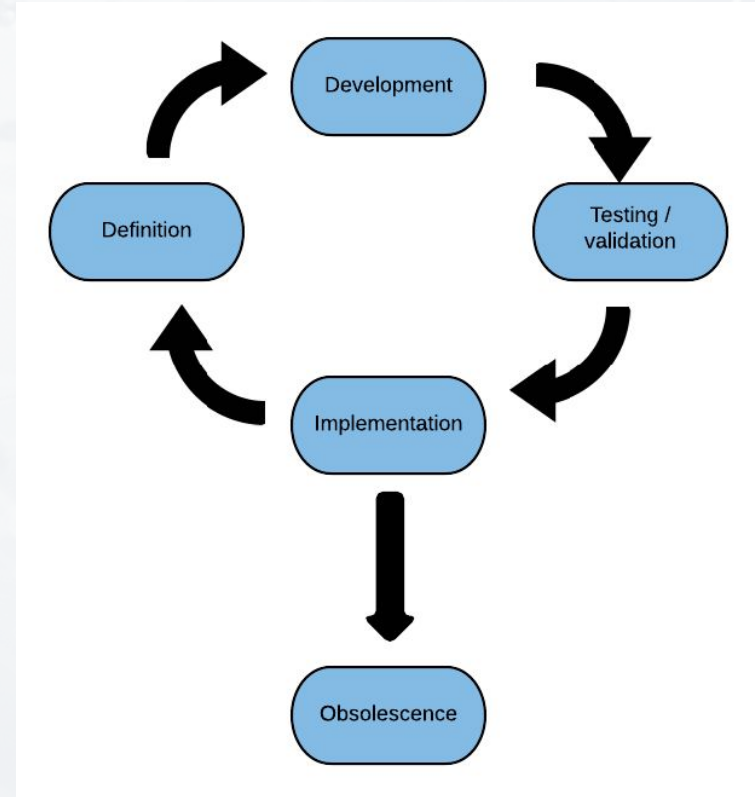
Environments

- Pre-production
 - Real data?
 - Generated data?
- Production
 - Support
- Sandbox?



Methodology

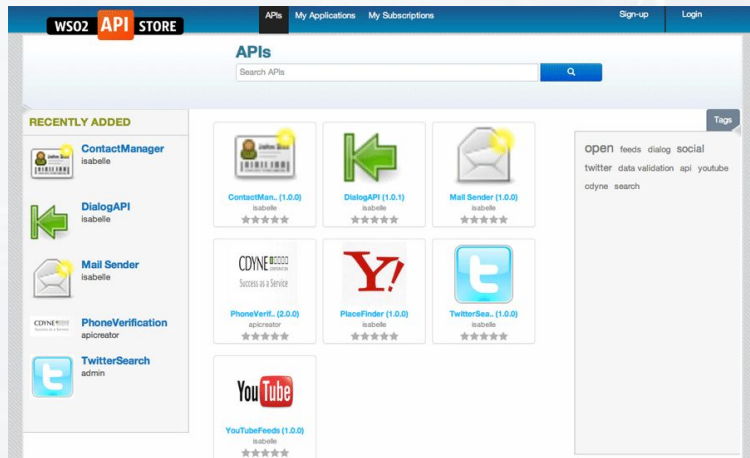
- Steps
 - Definition
- Fake?
- Develop
- Testing / validation
- Implementation
- Obsolescence



Developer center

There is an application for developers. Some features

- Create and manage consumer apis
- Get api access key
- Testing api tools
- Documentation / samples / SDKs
- Monitoring
- Payment
- Statistics



Any questions?



Email:

- contacta@apiaddicts.org

Web:

- www.apiaddicts.org
- <http://Apiaddicts.leadgods.com>

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