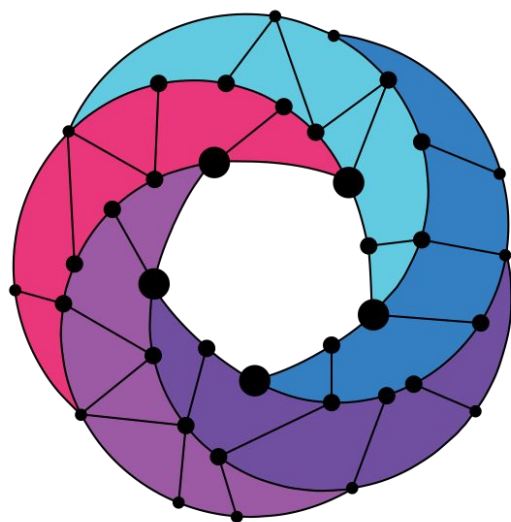




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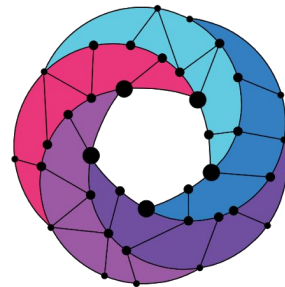
Managing VNF Packages with new OSM Repositories

Felipe Vicens (ATOS)

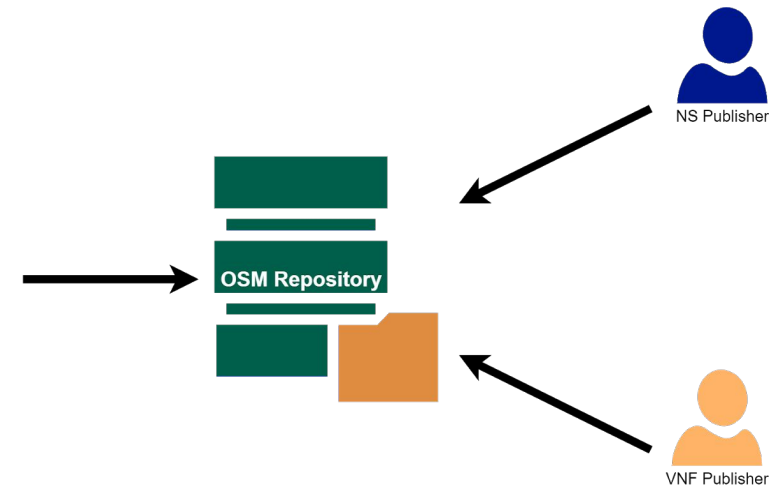
Description

OSM Repository is a set of NSs & VNFs related artifacts and metadata, organized with a predefined structure, aimed to exposed them to OSM users, by using **HTTP** or **HTTPS**.

- It exposes:
 - The VNF Artifacts
 - The NS Artifacts
 - The Repository index

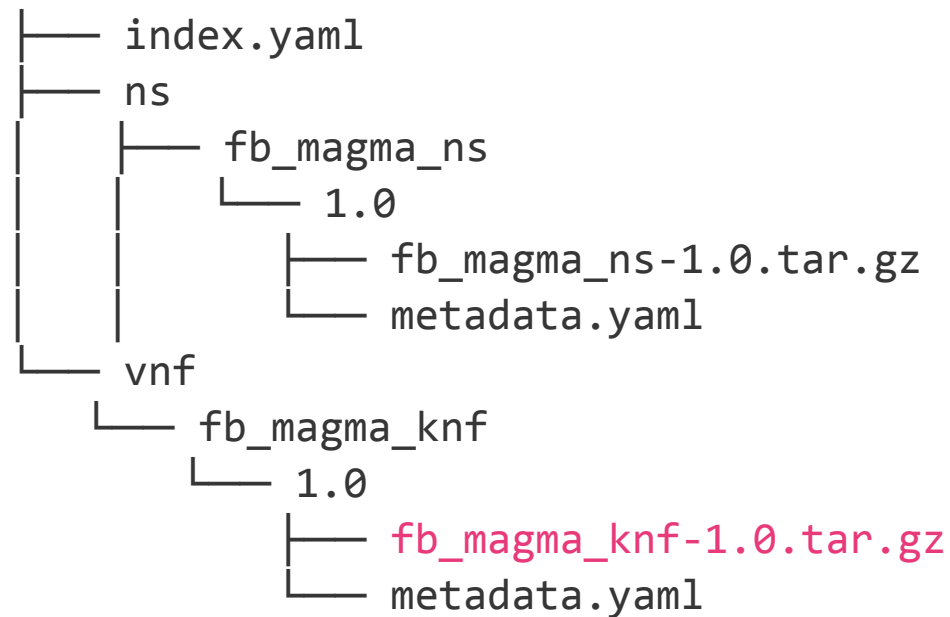


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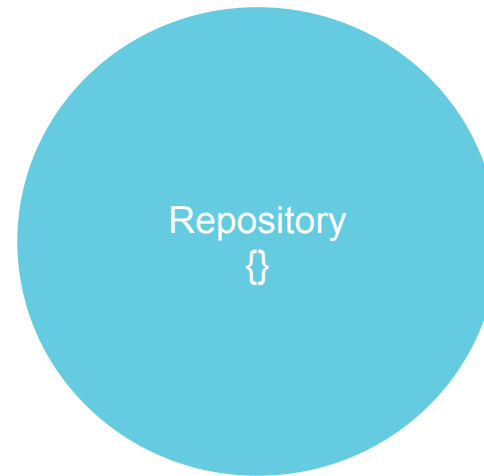


Server Side commands

- Repository server side:
 - One line repository creation and indexing
 - `osm repo-index --origin packages --destination repository`



Graphical Representation



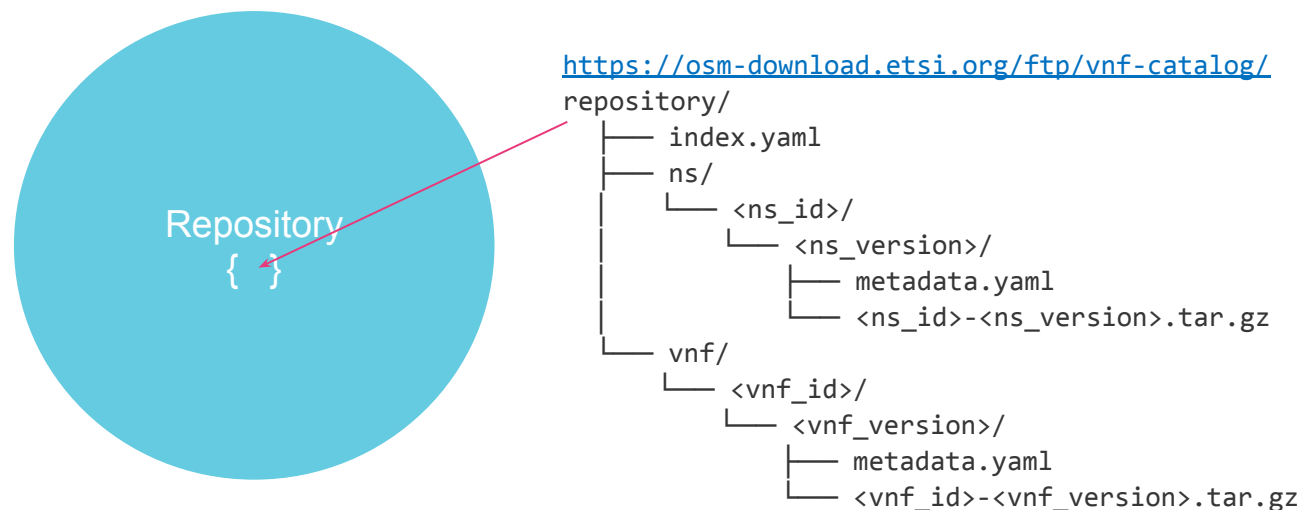
Repository Structure

- Repositories can be local (exposed in the local filesystem) or remote, both exposed by HTTP
- In both cases, the repository will have a structure like this:
 - A index.yaml file which is in charge of indexing the packages
 - A folders structure (trying to be self-explanatory)
 - One artifact's version and its metadata per folder

<https://osm-download.etsi.org/ftp/vnf-catalog/>

```
repository/  
├── index.yaml  
├── ns/  
│   ├── <ns_name>/  
│   │   ├── <ns_version>/  
│   │   │   ├── metadata.yaml  
│   │   │   └── <ns_name>-<ns_version>.tar.gz  
└── vnf/  
    ├── <vnf_name>/  
    │   ├── <vnf_version>/  
    │   │   ├── metadata.yaml  
    │   │   └── <vnf_name>-<vnf_version>.tar.gz
```

Graphical Representation



- Add an OSM Repository

- `osm repo-add --description "my vnf repository" vnfrepo https://osm-download.etsi.org/ftp/vnf-catalog/`

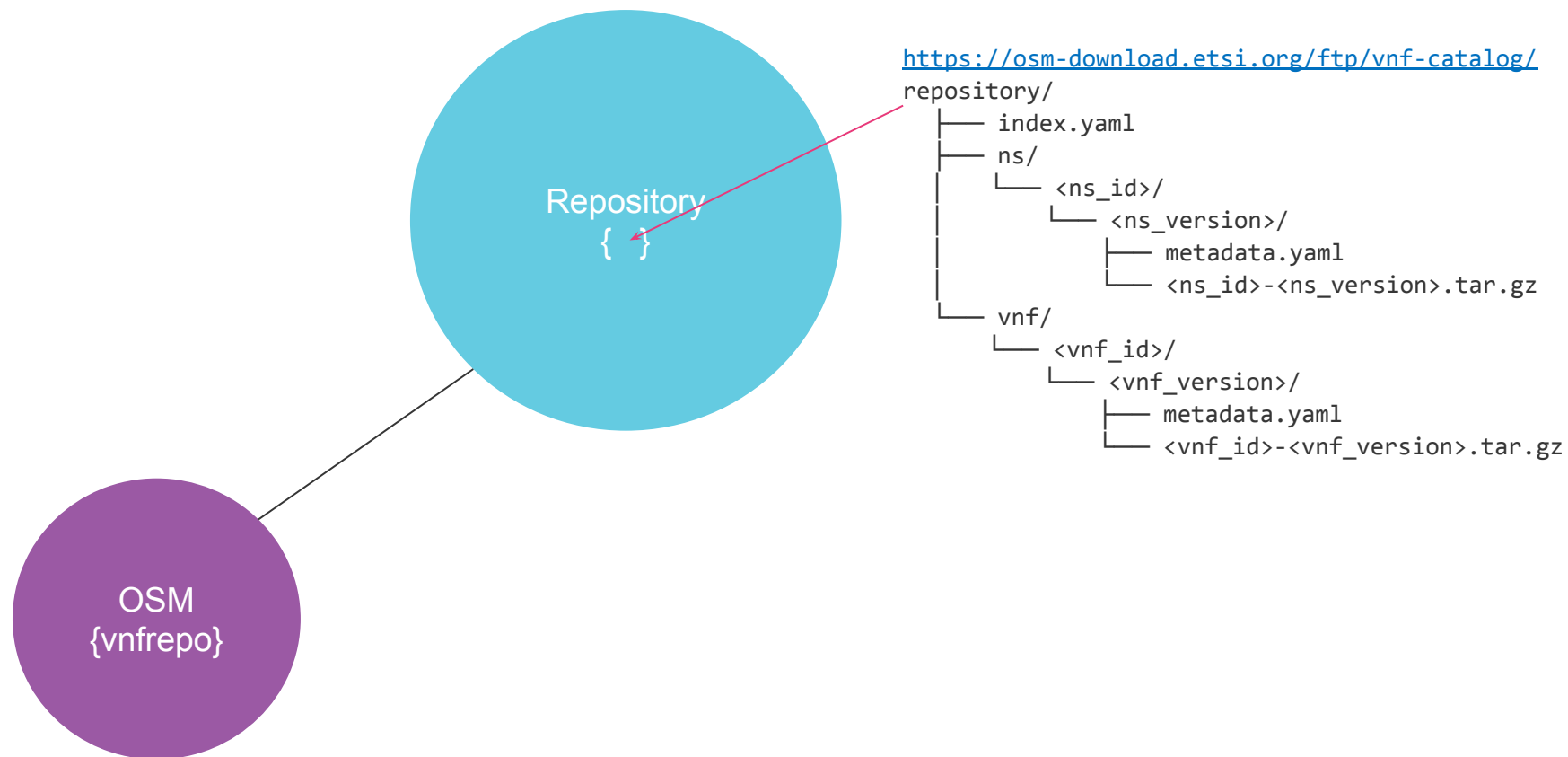
- List repositories

- `osm repo-list`

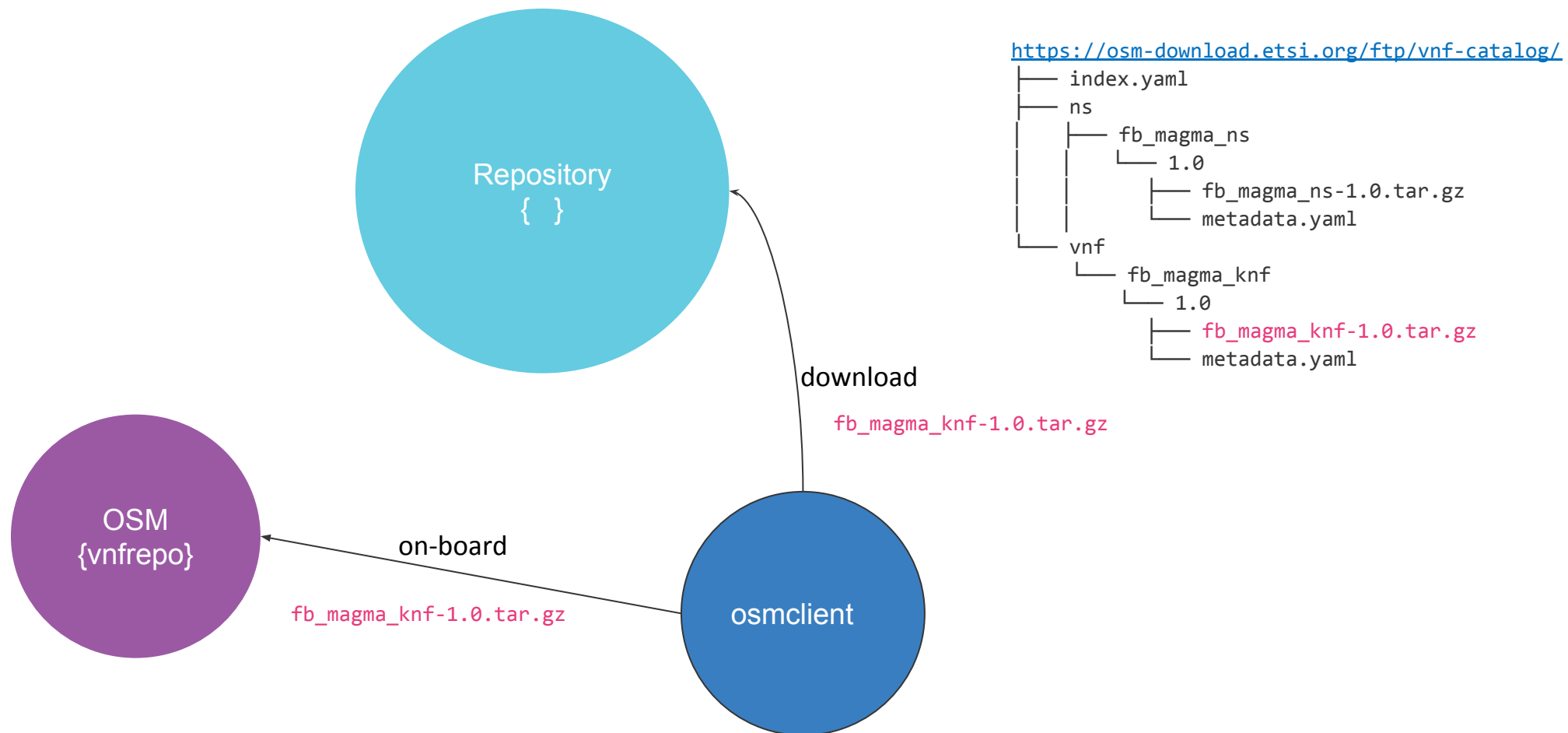
- Delete a repository

- `osm repo-delete vnfrepo`

Graphical Representation



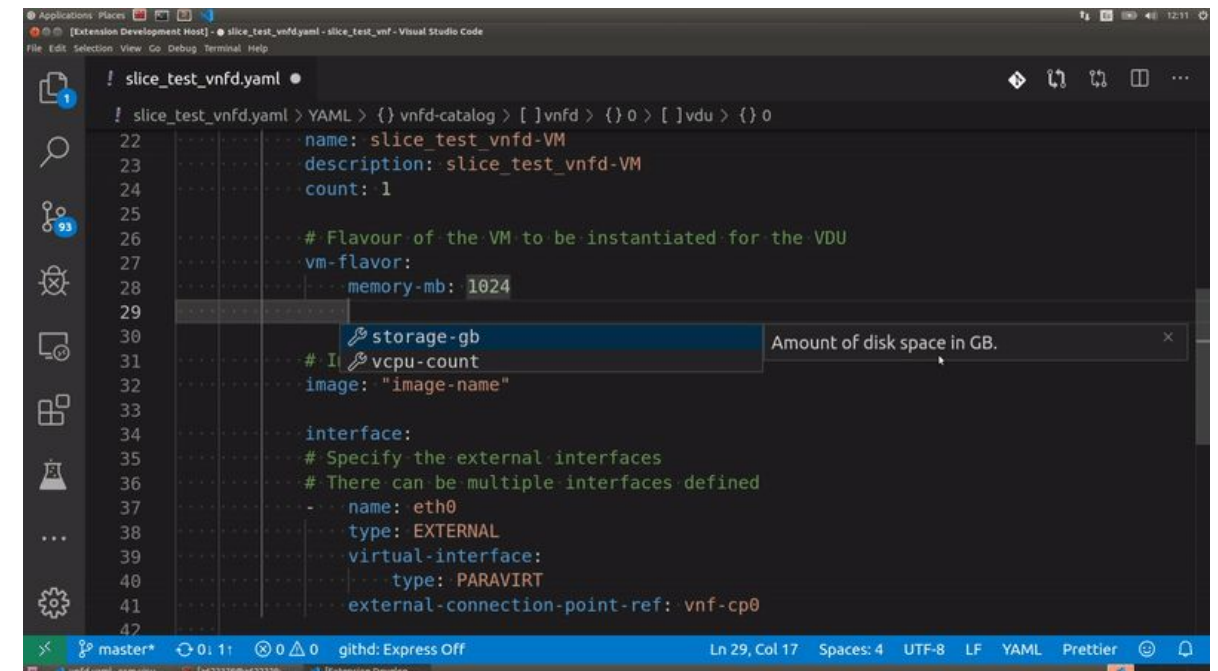
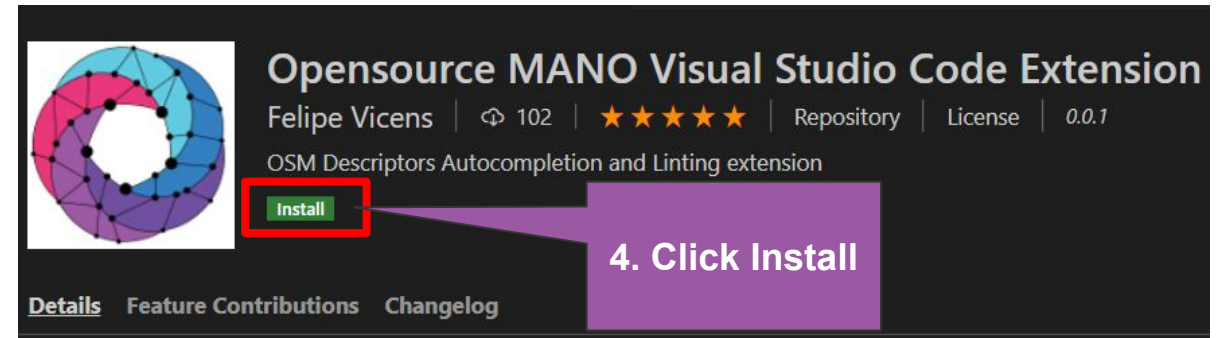
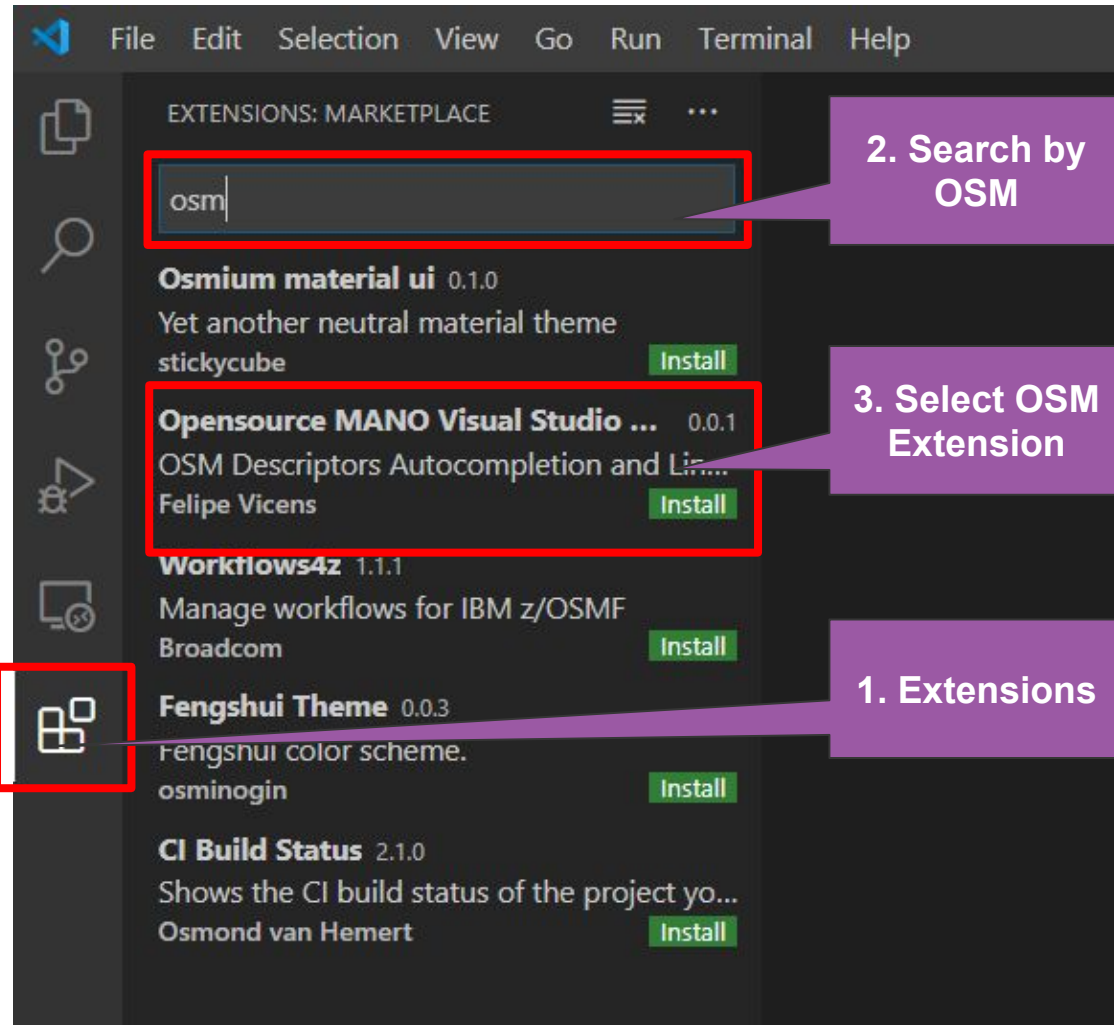
Graphical Representation

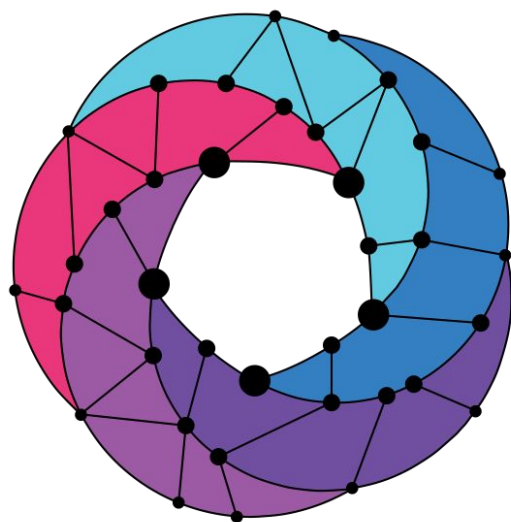


```
osm nfpkg-create --repo vnfrepo fb_magma_knf
```

- List package inside a repository
 - `osm nfpkg-repo-list`
 - `osm nspkg-repo-list`
- On-board a package from a repository to OSM
 - `osm nfpkg-create --repo vnfrepo fb_magma_knf`
 - `osm nspkg-create --repo vnfrepo fb_magma_ns`
- Show packages in a repository
 - `osm nfpkg-repo-show --repo vnfrepo fb_magma_knf`
 - `osm nspkg-repo-show --repo vnfrepo fb_magma_ns`

Installing VS Code plugin for OSM Descriptors design





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