

D.Morris University of Edinburgh





OSSR

Software library

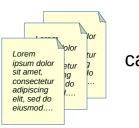


requirements.txt environment.txt

Discovery and planning software located on central platform

Plugin components for planning and launching each type of task

List of registered platforms



capabilities.yml

Controlled set of compute platforms contributed by ESCAPE members



Same set of components deployed on all platforms







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capabilities.yml capabilities.yml capabilities.yml

Missing: metadata about task type

Discovery - search for JPNotebooks ?

Needs a standard tag for <type>

Execution – what platforms can run <this> Depends on what <this> is

Different compute platforms contributed by ESCAPE members





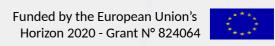








Different versions deployed on different platforms

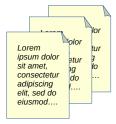






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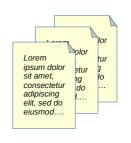
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Plugin components for selecting, planning and launching each task type

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capabilities.yml capabilities.yml capabilities.yml

URI/URL to represent task types

http://purl.escape.eu/task-type/jupyter-notebook



http://purl.escape.eu/task-type/docker-image



URI/URL to represent platform types

http://purl.escape.eu/platform-type/jupyter-hub

http://purl.escape.eu/platform-type/binder-service

http://purl.escape.eu/platform-type/dirac-service

http://purl.escape.eu/platform-type/kubernetes







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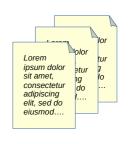
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capabilities.yml capabilities.yml capabilities.yml

Task specific details

Task type:

http://purl.escape.eu/task-type/jupyter-notebook



requirements.txt environment.txt

Platform specific details

Platform type:

http://purl.escape.eu/platform-type/jupyter-hub



capabilities.yml







Execution planning – ESCAPE + IVOA

Websevice API
Based on ESCAPE use cases
and requirements

```
can-I-do-this?
    Request:
         identity : [OIDC token]
         request type : [anyURI]
         params:
            - [name] : [value]
            - [name] : [value]
    Response:
         [yes|no|maybe]
         service type : [anyURI]
         params:
            - [name] : [value]
            - [name] : [value]
```



