Platys – Platform in a box

Guido Schmutz, Ulises Fasoli

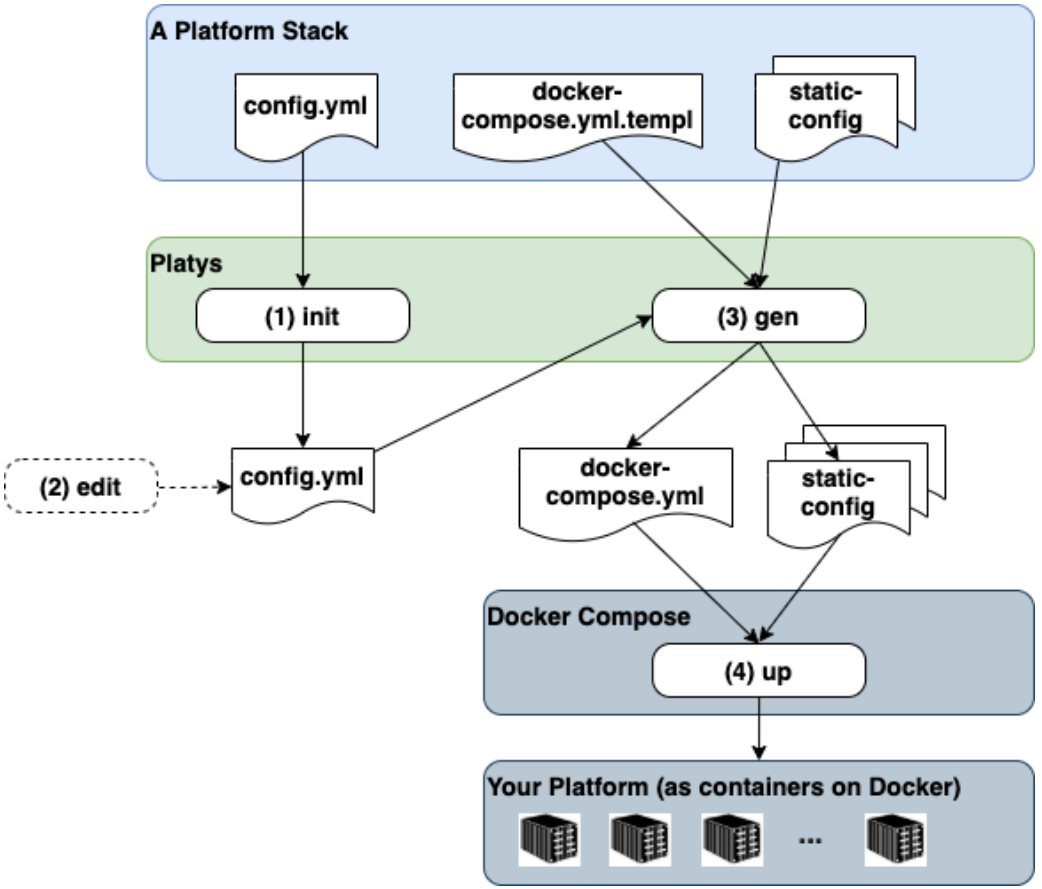
gschmutz

http://guidoschmutz.wordpress.com

Trivadis `platys` – Data Platform in a Box

trivadis

- a toolset for generating and provisioning Modern Data Platforms based on Docker and Docker Compose
- main use is for small-scale Data Lab projects, Proof-of-Concepts (PoC) or Proof-of-value (PoV) projects as well as trainings
- A concrete *Platform* is always generated based on a given *Platform Stack*
- See here for how to install `platys`
- https://github.com/TrivadisPF/platys



gschmutz

Trivadis `platys` – How does it work?

trivadis

1. Create a folder as your platform working directory

```
mkdir platys-demo
dd platys-demo
```

2. Initialize the platform using the `platys init` command

```
platys init -n platys-demo-platform
     -sn trivadis/platys-modern-data-platform -sv 1.2.0
```

3. A `config.yml` file is created locally, holding all the possible options of the modern-data-platform 1.2.0 stack. See here for a documentation of the various options.

Trivadis `platys` – How does it work?

trivadis

4. Use an editor to set the needed services to `true`.

```
# Default values for the generator
# this file can be used as a template for a custom configuration
# or to know about the different variables available for the generator
    platys:
       platform-name: ‘platys-demo'
       stack-image-name: 'trivadis/platys-modern-data-platform'
       stack-image-version: '1.2.0'

    # ===== Apache Zookeeper ========
    KAFKA_enable: true
    # one of enterprise, community
    KAFKA_edition: 'community'
    KAFKA_volume_map_data: false
    KAFKA_broker_nodes: 3
    KAFKA_delete_topic_enable: false
    KAFKA_auto_create_topics_enable: false
```

Trivadis `platys` – How does it work?

trivadis

5. Run `platys gen` to generate your platform

```
platys gen
```

6. A folder with the name of the platform is created and in which all the artefacts for the Docker Compose stack can be found
7. Navigate into that folder and start the stack using `docker-compose up`

```
cd platys-demo-platform
docker-compose up -d
```

Trivadis `platys` – Tips and Tricks

trivadis

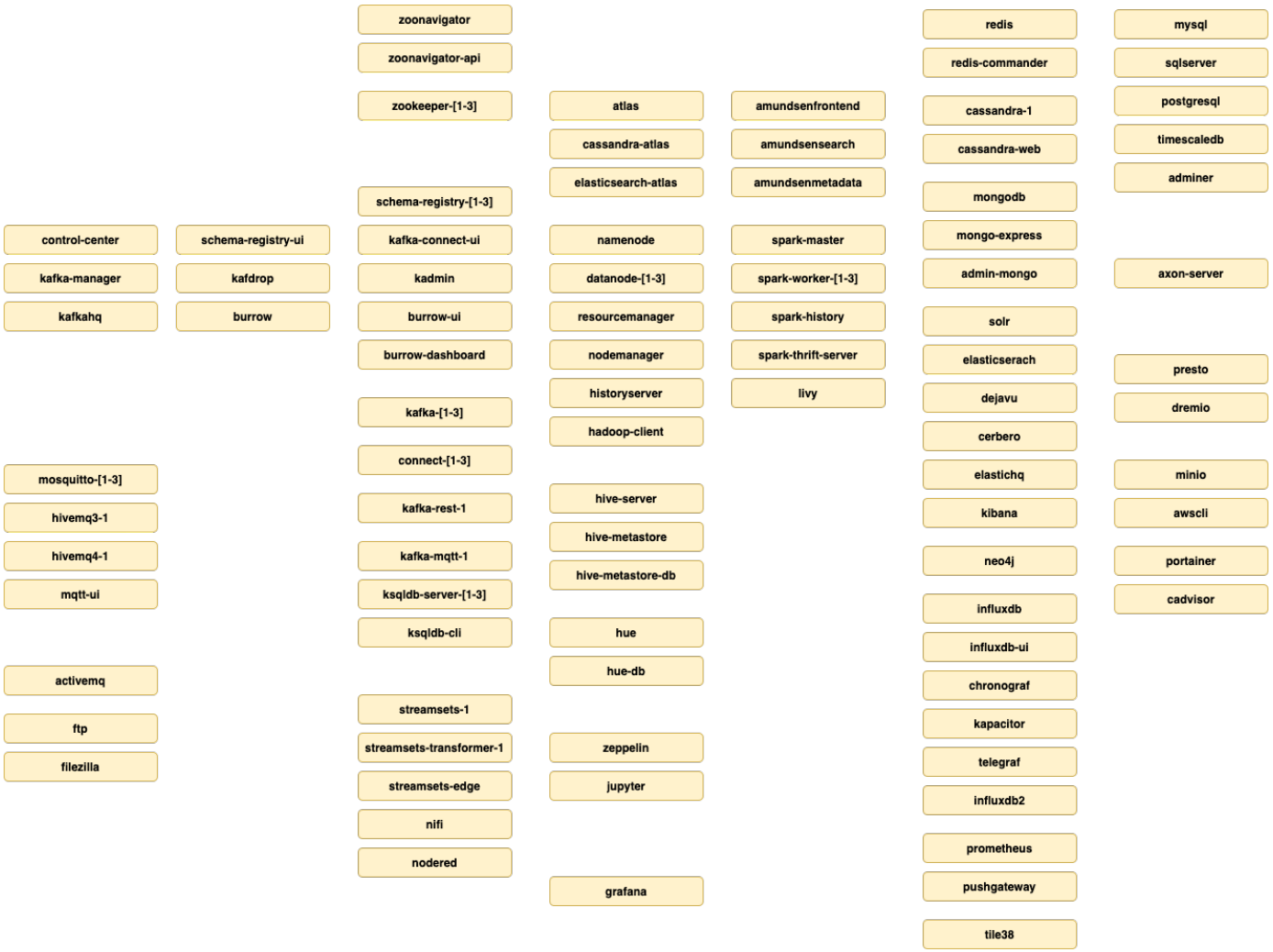
- In the init you can also pass a list of services to directly set to true to omit having to edit the `config.yml`

```
platys init -n platys-demo-platform
     -sn trivadis/platys-modern-data-platform -sv 1.2.0
     -f -s KAFKA,SPARK,JUPYTER
```

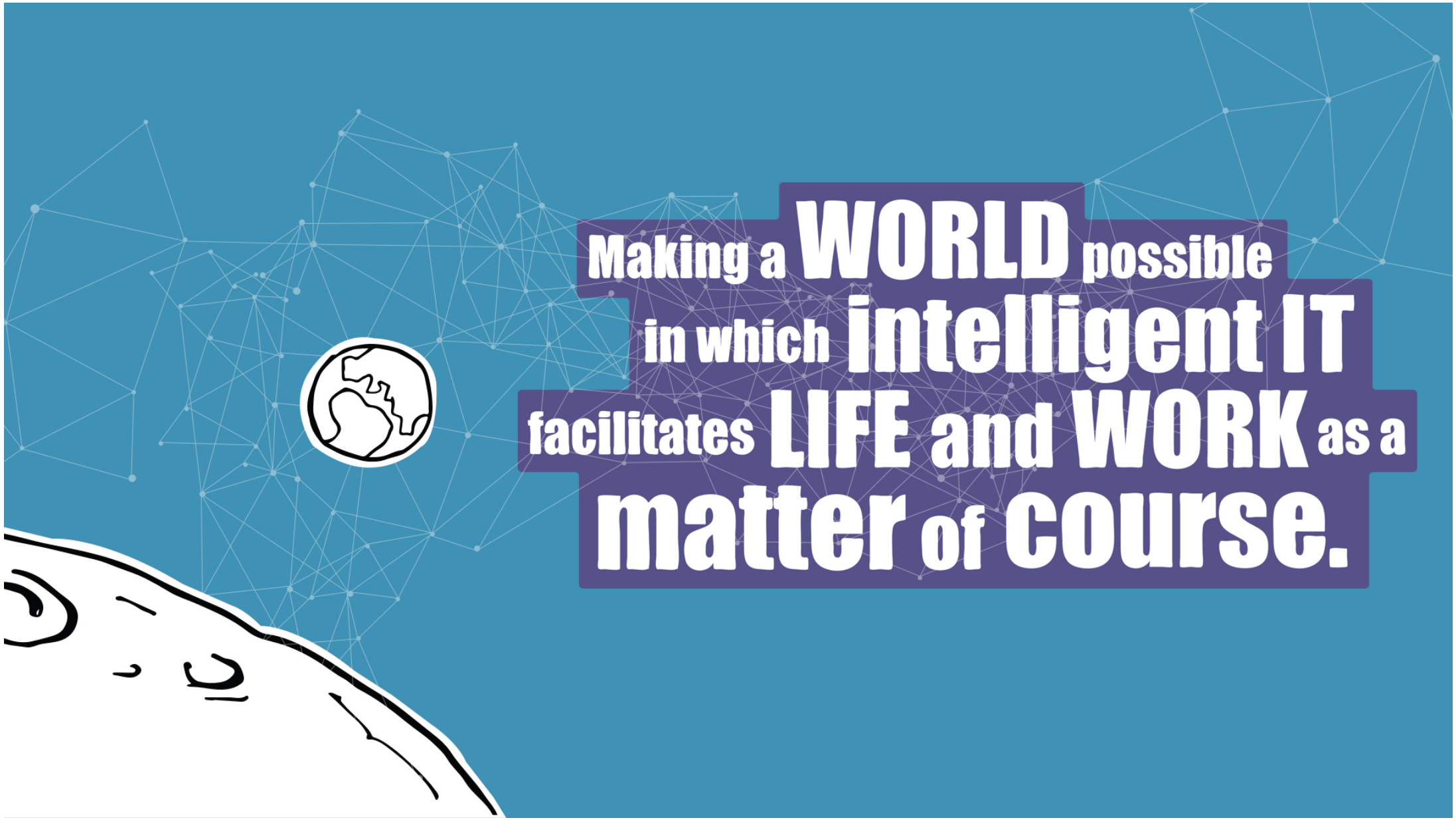
- You can list the available service of a given platform stack by using the `list_services` command

```
platys list_services -sn trivadis/platys-modern-data-platform
                     -sv 1.2.0
```

modern-data-platform – Service Overview trivadis



gschmutz


Making a WORLD possible
in which intelligent IT
facilitates LIFE and WORK as a
matter of course.