

Routers – Connecting Requests to Services



træfik



Understanding Traefik Labels

Let's take a look at how the Traefik labels are constructed

traefik.http.routers.<router_name>.rule

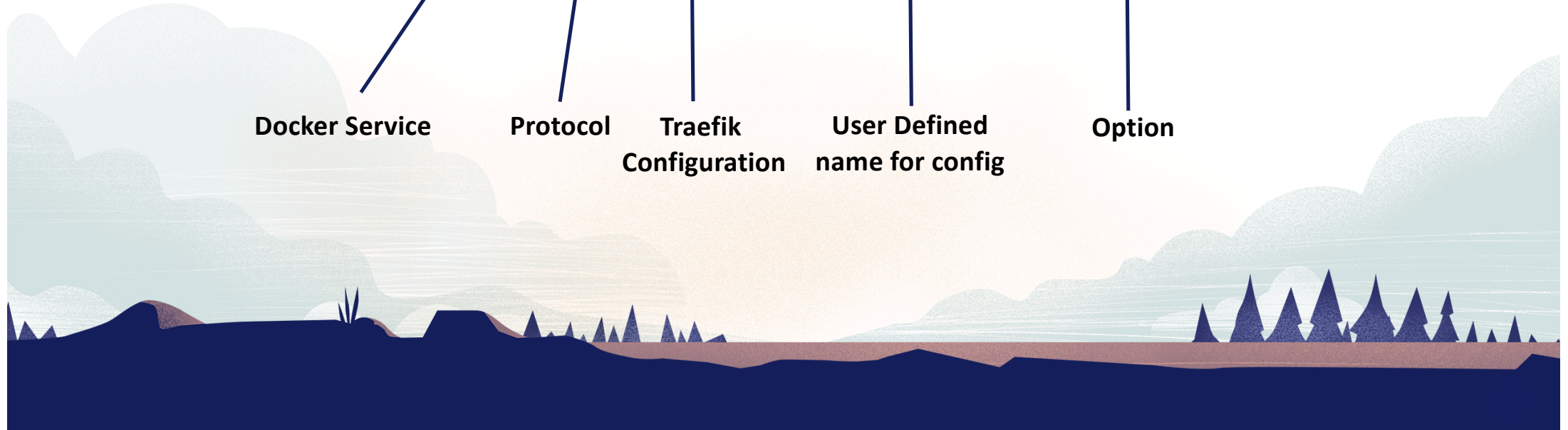
Docker Service

Protocol

Traefik
Configuration

User Defined
name for config

Option





Router Rules

`traefik.http.routers.<router_name>.rule`

Example

- `"traefik.http.routers.whoami.rule=Host(`whoami.localhost`)"`

Tip:

- To set the value of a rule, use [backticks](#) ``` or escaped double-quotes `\`.
- Single quotes `'` are not accepted as values are [Golang's String Literals](#).

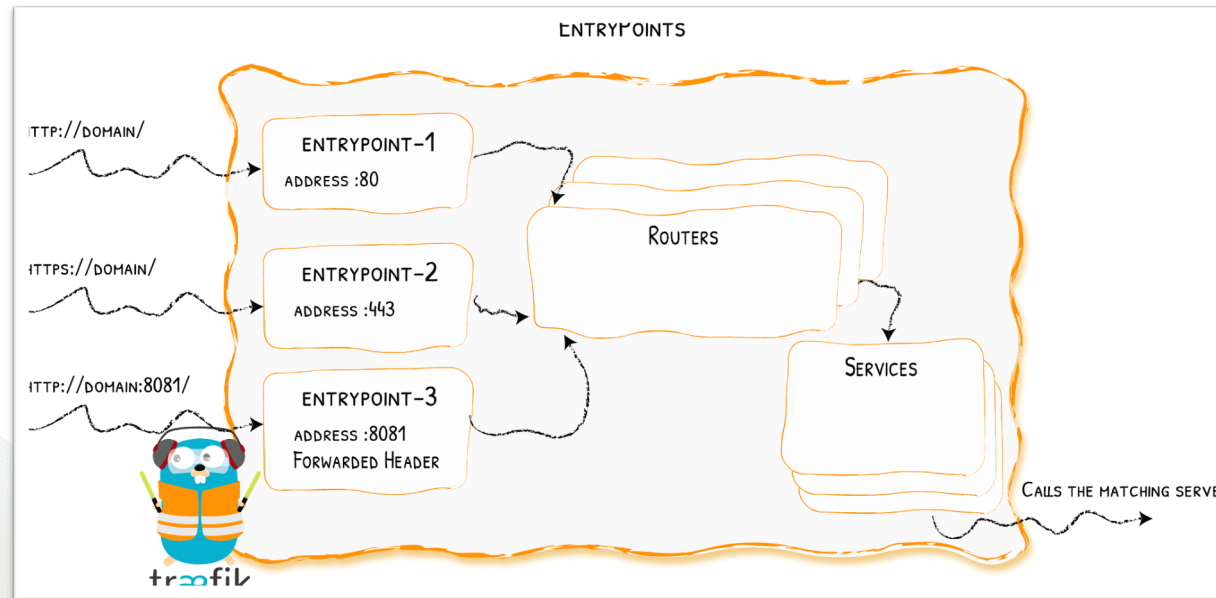


Router Defaults

- Traefik creates, for each container, a corresponding [service](#) and [router](#).
- The Service automatically gets a server per instance of the container, and the router automatically gets a rule defined by defaultRule (if no rule for it was defined in labels).



Router Entrypoints



By default, Routers will accept all requests from all defined **Entrypoints**. Using a Label can determine specific routers if required



Available Router Configurations

traefik.http.routers.<router_name>.rule

- "traefik.http.routers.myrouter.rule=Host(`example.com`)"

traefik.http.routers.<router_name>.entrypoints

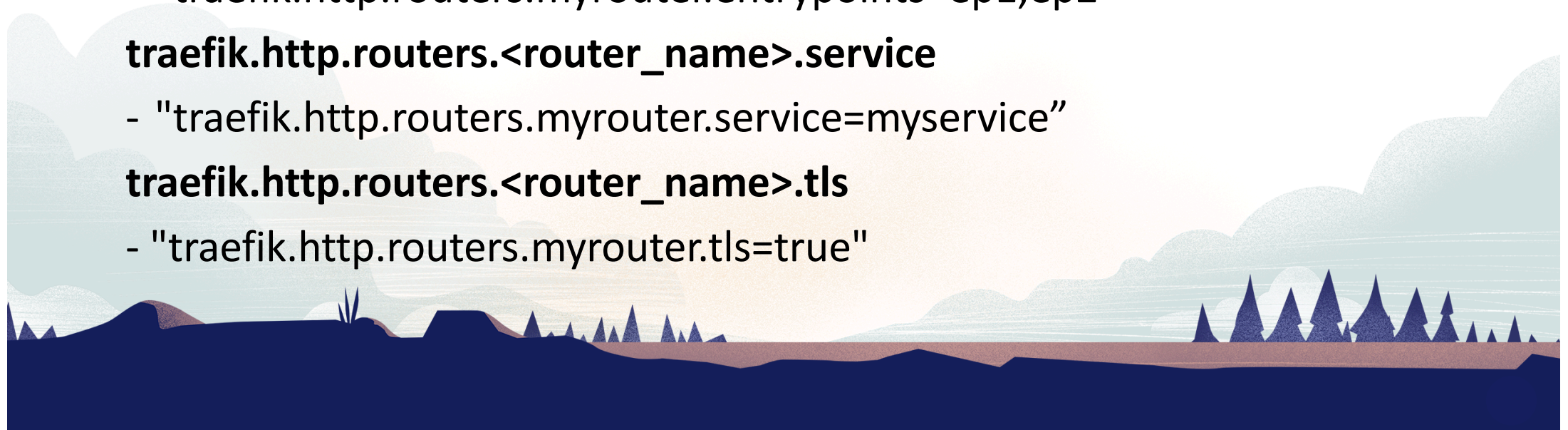
- "traefik.http.routers.myrouter.entrypoints=ep1,ep2"

traefik.http.routers.<router_name>.service

- "traefik.http.routers.myrouter.service=myservice"

traefik.http.routers.<router_name>.tls

- "traefik.http.routers.myrouter.tls=true"





Router Example app



```
# Add the catapp service
catapp:
  # A Random Cat GIF generator application
  image: mikesir87/cats:1.0
  # We set a label to tell Traefik to assign a hostname to the new service
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.catapp.rule=Host(`catapp.localhost`)"
    - "traefik.http.routers.catapp.entrypoints=web"
    - "traefik.http.routers.myrouter.service=catapp"
    - "traefik.http.services.catapp.loadbalancer.server.port=5000"
```



Traefik Router Resources

- General Router documentation - <https://docs.traefik.io/routing/routers/>
- Docker Provider Router configurations - <https://docs.traefik.io/routing/providers/docker/#routers>

