Webserver-Konfiguration

Dienste

Name	Zweck	ffmd-repo	Ort	inst. Version	autostart	sonstiges
alfred	mesh-metadaten	alfred		2014.2.0		
hopglass-server	hopglass-server	hopglass-server	/opt/hopglass-server	module branch	/etc/hopglass-server/default/config.json	
hopglass	hopglass	hopglass	/opt/hopglass			
ffmap-backend	backend zu Map	ffmap-backend	/usr/local/lib/ffmap			
grafana	visualisierung statistik			6.2.1		
Prometheus	Grafana-Stats Backend	offen		2.9.2 / 2019-04-24	autostart über Docker Policy	
meshviewer	map	meshivewer	/var/www/map/			anpassen der neuen Version (grüner/blauer Punkt) /var/www/map/config.json Variable: current-firmware - not used
wiki	dokumentation	?				

weitere Dinge

API

- alt: community.json → /usr/local/lib/ffmap/community.json/api.json
- neu: community.json → von https://github.com/FreifunkMD/community.json/blob/master/ffmd.json

fastd

- Änderung der startmethode von /etc/init.d/ zu systemdservice (systemctl start fastd@magdeburg)

grafana:

- service grafana-server start/stop/reboot (see documentation)
- config: /etc/grafana/grafana.ini

```
[server]
root_url = https://map.md.freifunk.net/stats/
[analytics]
check_for_updates = true
[auth.anonymous]
enabled = true
```

- systemctl start grafana-server
- /usr/lib/systemd/system/grafana-server.service:

```
  [Unit]
  Description=Starts and stops a single grafana instance on this system
  Documentation=http://docs.grafana.org
  Wants=network-online.target
  After=network-online.target

  [Service]
  EnvironmentFile=/etc/default/grafana-server
  User=grafana
  Group=grafana
  Type=simple
  Restart=on-failure
  WorkingDirectory=/usr/share/grafana
  ExecStart=/usr/sbin/grafana-server  \
  --config=${CONF_FILE}                   \
   --pidfile=${PID_FILE}                 \
      cfg:default.paths.logs=${LOG_DIR}   \
      cfg:default.paths.data=${DATA_DIR} \
      cfg:default.paths.plugins=${PLUGINS_DIR}
  LimitNOFILE=10000
  TimeoutStopSec=20
  UMask=0027

  [Install]
  WantedBy=multi-user.target
```

- frontend: https://map.md.freifunk.net/stats/dashboard
- graphana holt sich die Daten vom gw2, auf dem prometheus die daten in eine DB speichert (http://130.185.109.142:9090/graph)

hopglass

- config: /opt/hopglass/web/build/config.json

```
  {
  "dataPath": "data/",
  "siteName": "Freifunk Magdeburg",
  "mapSigmaScale": 0.5,
  "showContact": false,
  "maxAge": 14,
  "mapLayers": [
      { "name": "OSM Standard",
      "url": "https://{s}.tile.openstreetmap.org/{z}/{x}/{y}.png",
      "config": {
          "type": "osm",
          "attribution": "<a target=\"_blank\"
href=\"http://www.openstreetmap.org/\">Karte hergestellt aus
OpenStreetMap-Daten</a> | <a rel=\"license\" target=\"_blank\"
href=\"http://opendatacommons.org/licenses/odbl/\">Open Database
```

```
License (ODbL)</a>",
  "maxZoom": 19
      }
  },
  { "name": "OSM deutscher Stil",
      "url":
"http://a.tile.openstreetmap.de/tiles/osmde/{z}/{x}/{y}.png",
      "config": {
              "type": "osm",
      "attribution": "<a target=\"_blank\"
href=\"http://www.openstreetmap.org/\">Karte hergestellt aus
OpenStreetMap-Daten</a> | <a rel=\"license\" target=\"_blank\"
href=\"http://opendatacommons.org/licenses/odbl/\">Open Database
License (ODbL)</a>",
  "maxZoom": 18
      }
  },
  { "name": "MapQuest",
      "url":
"https://otile{s}-s.mqcdn.com/tiles/1.0.0/osm/{z}/{x}/{y}.jpg",
      "config": {
  "subdomains": "1234",
  "type": "osm",
  "attribution": "Tiles &copy; <a href=\"https://www.mapquest.com/\"
target=\"_blank\">MapQuest</a>, Data CC-BY-SA OpenStreetMap",
  "maxZoom": 17
      }
  },
  {
  "name": "Stamen.TonerLite"
  }
  ],
  "siteNames": [
  { "site": "ffmd", "name": "Magdeburg" }
  ]
  }
```

- update: cd /opt/hopglass/web/ ; git pull; npm install; grunt

hopglass-server

https://libraries.io/github/hopglass/hopglass-server

- config: /etc/hopglass-server/default/
- aliases.json:

```
    {
      "d2f429996861": {
        "firstseen": "2016-04-07T17:49:18.252Z",
```

```
        "nodeinfo": {
          "node_id": "d2f429996861",
          "owner": {
            "contact": "kontakt@md.freifunk.net"
          },
          "network": {
            "mac": "d2:f4:29:99:68:61",
            "mesh_interfaces": [
              "d2:f4:29:99:68:61"
            ],
            "mesh": {
              "bat0": {
                "interfaces": {
                  "tunnel": [
                    "d2:f4:29:99:68:61"
                  ]
                }
              }
            }
          },
          "hostname": "gw1"
       },
        "neighbours": {
          "batadv": {
            "d2:f4:29:99:68:61": {}
          }
        }
      }
      "be981f07ffa3": {
        "firstseen": "2016-04-07T17:49:18.252Z",
        "nodeinfo": {
          "node_id": "be981f07ffa3",
          "owner": {
            "contact": "kontakt@md.freifunk.net"
          },
          "network": {
            "mac": "be:98:1f:07:ff:a3",
            "mesh_interfaces": [
              "be:98:1f:07:ff:a3"
            ],
            "mesh": {
              "bat0": {
                "interfaces": {
                  "tunnel": [
                    "be:98:1f:07:ff:a3"
                  ]
                }
              }
            }
          },
          "hostname": "gw2"
```

```
      },
       "neighbours": {
         "batadv": {
           "be:98:1f:07:ff:a3": {}
         }
       }
     }
   }
```

- config.json:

```
{
"receiver": {
"receivers": [
  { "module": "announced",
    "config": {
      "interval": {
        "statistics": 60,
        "nodeinfo": 500
      }
    }
  },
  { "module": "aliases",
    "config": {
      "file": "./aliases.json"
    },
    "overlay": true
  }
],
"ifaces": [
  "bat0"
],
"storage": {
  "file": "./raw.json"
},
"purge": {
  "maxAge": 14,
}
},
"provider": {
"offlineTime": 900
},
"webserver": {
"port": 4000
}
}
```

- systemctl start/stop hopglass-server@default
- /usr/lib/systemd/system/hopglass-server@.service

```
  [Unit]
  Description=The HopGlass Server collects data from the Freifunk
network (%I)
  [Service]
  Type=simple
  User=hopglass
  Group=hopglass
  WorkingDirectory=/etc/hopglass-server/%I/
  ExecStart=/usr/bin/node --harmony /opt/hopglass/server/hopglass-
server.js
  Restart=always

  [Install]
  WantedBy=multi-user.target
```

- Daten werden gespeichert unter /etc/hopglass-server/default/raw.json

Query Location	**Description**
http://web1.md.freifunk.net:4000/nodes.json	HopGlass nodes.json v2
http://web1.md.freifunk.net:4000/graph.json	HopGlass graph.json v1
http://web1.md.freifunk.net:4000/mv/nodes.json	Meshviewer nodes.json v2
http://web1.md.freifunk.net:4000/mv/graph.json	Meshviewer graph.json v1
http://web1.md.freifunk.net:4000/raw.json	Raw data collected, same as the `raw.json` save file
http://web1.md.freifunk.net:4000/hosts	hosts file to be placed in /etc/hosts
http://web1.md.freifunk.net:4000/metrics	Prometheus metrics
http://web1.md.freifunk.net:4000/wifi-aliases.txt	Aliases file for Wifi Analyzer app
http://web1.md.freifunk.net:4000/WifiAnalyzer_Alias.txt	Aliases file for Wifi Analyzer app
http://web1.md.freifunk.net:4000/ffapi.json	Freifunk API file
http://web1.md.freifunk.net:4000/nodes.zone	Named DNS zone file

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Last update: **2021-02-12 22:14**