

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	meshviewer	/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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