

# MESHdesk troubleshooting tips

- These tips might help you troubleshoot the mesh networks you deployed.

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## Did the node contact the back-end

- To check if the node is making contact with the back-end you can run a **tail -f** on the Web server's access log file

```
tail -f /var/log/nginx/access.log
```

- Here we see one of the nodes contacted the back-end as a gateway

```
17.8.20.18 - - [17/Aug/2015:04:01:04 -0400] "GET /cake2/rd_cake/nodes/get_config_for_node.json?mac=E8-DE-27-DD-4F-E8&gateway=true HTTP/1.1" 200 6060 "-" "curl/7.38.0"
```

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## What did the back-end say?

- You can now use that as reference and query the back-end in the same manner to investigate the reply from the back-end.
- We suppose our server is <http://rd01.wificity.asia>. The URL will this be:  
[http://rd01.wificity.asia/cake2/rd\\_cake/nodes/get\\_config\\_for\\_node.json?mac=E8-DE-27-DD-4F-E8&gateway=true](http://rd01.wificity.asia/cake2/rd_cake/nodes/get_config_for_node.json?mac=E8-DE-27-DD-4F-E8&gateway=true)
- Here is the return data our server gave the node:

```
{
  "config_settings": {
    "wireless": [
      {
        "wifi-device": "radio0",
        "options": {
          "channel": "6",
          "disabled": ,
          "hwmode": "11g",
          "txpower": 21,
          "country": "ZA"
        },
        "lists": [
          ]
        },
      {
        "wifi-iface": "zero",
```

```
"options": {
  "device": "radio0",
  "ifname": "mesh0",
  "network": "mesh",
  "mode": "adhoc",
  "ssid": "02_CA_FE_CA_00_02",
  "bssid": "02:CA:FE:CA:00:02"
},
{
  "wifi-iface": "one",
  "options": {
    "device": "radio0",
    "ifname": "one0",
    "mode": "ap",
    "encryption": "psk-mixed",
    "network": "one",
    "ssid": "meshdesk_config",
    "key": "radiusdesk",
    "hidden": "1"
  },
{
  "wifi-iface": "two",
  "options": {
    "device": "radio0",
    "ifname": "two0",
    "mode": "ap",
    "network": "ex_three",
    "encryption": "none",
    "ssid": "Cheetah guest",
    "key": "",
    "hidden": false,
    "isolate": true,
    "auth_server": "",
    "auth_secret": ""
  },
{
  "wifi-iface": "three",
  "options": {
    "device": "radio0",
    "ifname": "three0",
    "mode": "ap",
    "network": "lan",
    "encryption": "psk2",
    "ssid": "Cheetah wireless",
    "key": "bigsecret",
    "hidden": false,
    "isolate": false,
```

```
        "auth_server": "",
        "auth_secret": ""
    }
}
],
"network": [
    {
        "interface": "loopback",
        "options": {
            "ifname": "lo",
            "type": "bridge",
            "proto": "static",
            "ipaddr": "127.0.0.1",
            "netmask": "255.0.0.0"
        }
    },
    {
        "interface": "lan",
        "options": {
            "ifname": "eth0 eth1 bat0.2",
            "type": "bridge",
            "proto": "dhcp"
        }
    },
    {
        "interface": "b",
        "options": {
            "ifname": "bat0"
        }
    },
    {
        "interface": "mesh",
        "options": {
            "mtu": "1560",
            "proto": "batadv",
            "mesh": "bat0"
        }
    },
    {
        "interface": "one",
        "options": {
            "ifname": "bat0.1",
            "proto": "static",
            "ipaddr": "10.5.5.1",
            "netmask": "255.255.255.0",
            "type": "bridge"
        }
    },
    {
        "interface": "bat_vlan_one",
        "options": {
```

```
        "ifname": "bat0.1",
        "proto": "batadv_vlan",
        "ap_isolation": "0"
    },
    {
        "interface": "ex_three",
        "options": {
            "ifname": "bat0.3",
            "type": "bridge"
        }
    },
    {
        "interface": "bat_vlan_three",
        "options": {
            "ifname": "bat0.3",
            "proto": "batadv_vlan",
            "ap_isolation": "0"
        }
    }
],
"system": {
    "password_hash": "$1$TJn8xhHP$BLhc3QEW54de0V8yCYD\\T.",
    "heartbeat_interval": 60,
    "heartbeat_dead_after": 300,
    "timezone": "SAST-2",
    "gw_dhcp_timeout": "240",
    "gw_use_previous": true,
    "gw_auto_reboot": true,
    "gw_auto_reboot_time": "300",
    "hostname": "Node1"
},
"gateways": [
],
"captive_portals": [
    {
        "id": "1",
        "mesh_exit_id": "33",
        "radius_1": "69.30.244.107",
        "radius_2": "",
        "radius_secret": "testing123",
        "radius_nasid": "cheetah_cp1",
        "uam_url":
"http://69.30.244.107/cake2/rd_cake/dynamic_details/chilli_browser_det
ect",
        "uam_secret": "greatsecret",
        "walled_garden": "www.radiusdesk.com",
        "swap_octets": false,
        "created": "2014-08-11 12:21:02",
    }
]
```

```
        "modified": "2015-05-10 19:01:07",
        "mac_auth": false,
        "proxy_enable": true,
        "proxy_ip": "69.30.244.107",
        "proxy_port": "3128",
        "proxy_auth_username": "admin",
        "proxy_auth_password": "admin",
        "coova_optional": "",
        "hslan_if": "br-ex_three",
        "network": "ex_three"
    },
    "batman_adv": {
        "aggregated_ogms": true,
        "ap_isolation": false,
        "bonding": false,
        "fragmentation": true,
        "gw_sel_class": 20,
        "orig_interval": 1000,
        "bridge_loop_avoidance": false,
        "distributed_arp_table": true
    },
    "success": true,
    "timestamp": 1
}
```

## SSH into the device

- You should also be able to connect to the gateway node through ssh.
- The gateway node is a DHCP client and you should thus be able to pick it's IP address up from the DHCP server which seed it (Usually a DSL router).
- The username is root and the password is the same as the password that you specify for the mesh under the mesh's common settings (The admin password)

```
login as: root
root@10.0.0.3's password:
```

```
BusyBox v1.22.1 (2015-05-02 02:41:19 SAST) built-in shell (ash)
Enter 'help' for a list of built-in commands.
```



-----  
BARRIER BREAKER (Barrier Breaker, r44952)  
-----

- \* 1/2 oz Galliano
  - \* 4 oz cold Coffee
  - \* 1 1/2 oz Dark Rum
  - \* 2 tsp. Creme de Cacao
- Pour all ingredients into an irish coffee mug filled with crushed ice. Stir.

-----  
root@Node-1:~#

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