

# haproxy Settings for Blockscout.com

Blockscout.com uses haproxy for all BlockScout hosted and external instances.

If you would like to add your instance to Blockscout.com, make the required changes and submit a PR to <https://github.com/blockscout/haproxy-config>.

## Instructions

Blockscout uses two-part path names for network urls: the first part (org ) designates the organization/type of the network, the second part (netname ) names the network.

For example:

- Eth mainnet:
- `https://blockscout.com/eth/mainnet`
- (org=eth
- ,netname=mainnet
- )
- Ethereum Classic mainnet:
- `https://blockscout.com/etc/mainnet`
- (org=etc
- ,netname=mainnet
- )
- Kovan testnet:
- `https://blockscout.com/eth/kovan`
- (org=eth
- ,netname=kovan
- )
- 

1. Add a neworg for your blockscout instance's url

1) Add a newacl under the #Check for network type section in the cfg file.

...

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## Check for network type

```
... acl is_myorg path_beg -i /myorg
```

...

2) Add a corresponding exceptionis\_myorg to the#default redirect section

...

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## default redirect

```
redirect prefix /poa/xdai if lis_websocket !lis_poa !lis_etc !lis_eth !lis_lukso !lis_rsk !lis_myorg lis_cookie
```

...

3) addlis\_myorg toevery line in the#redirect for networks section

...

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## redirect for networks

```
redirect prefix /poa/core if lis_websocket lis_poa !lis_etc !lis_eth !lis_lukso !lis_rsk !lis_myorg is_cookie_core redirect prefix
```

```
/poa/sokol if !is_websocket !is_poa !is_etc !is_eth !is_lukso !is_rsk !is_myorg is_cookie_sokol
```

## do this for every line

```
...  
...
```

1. Add a new acl with your netname

In the #Check for network name section add a new acl with your netname similar to existing ones

```
...
```

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## Check for network name

```
... acl is_mynet path_beg -i /myorg/mynet
```

```
...
```

- 3) Set the cookie and name of rpc/websockets servers

```
...
```

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## Check for cookies

```
... acl is_cookie_mynet hdr_sub(cookie) network=mynet
```

## Default backends

```
... use_backend mynet if is_mynet
```

## WebSocket backends

```
... use_backend mynet_ws if is_cookie_mynet is_websocket
```

```
...
```

1. Add new backend sections to the end of the file

Add new backend\_mynet and backend\_mynet\_ws sections to the end of the file and provide dns names of your BlockScout instances.

For example:

```
...
```

Copy backend mynet

## Proxy mode

```
mode http
```

## Backend queries should not have network prefix, so we delete it

```
acl is_mynet path_beg /myorg/mynet reqirep ^([^\ ])/myorg/mynet[/]?(\. )\1\2 if is_mynet
```

## Setting headers to mask our query

```
http-request set-header X-Forwarded-Host %[req.hdr(Host)] http-request set-header X-Client-IP %[src] http-request set-header Host my-blockscout-instance.com
```

## Specifying cookie to insert

```
cookie network insert
```

## Server list. Format:

**server**

***: cookie check inter 60000 fastinter 1000 fall 3 rise 3 ssl verify none***

```
server mynet_server my-blockscout-instance.com:443 cookie mynet check inter 60000 fastinter 1000 fall 3 rise 3 ssl verify none
```

```
backend mynet_ws
```

## Check if WebSocket request is correct

```
acl hdr_websocket_key hdr_cnt(Sec-WebSocket-Key) eq 1 acl hdr_websocket_version hdr_cnt(Sec-WebSocket-Version) eq 1 http-request deny if ! hdr_websocket_key ! hdr_websocket_version
```

## WebSockets should be forwarded, not http proxied

```
option forwardfor
```

## Setting headers to mask our query

```
http-request set-header Host my-blockscout-instance.com http-request set-header Origin https://my-blockscout-instance.com
```

## Specifying cookie to insert

```
cookie network insert
```

## Server list. Format:

**server**

***: cookie check inter 60000 fastinter 1000 fall 3 rise 3  
check inter 60000 fastinter 1000 fall 3 rise 3 ssl verify  
none maxconn 30000***

```
server mynet_server my-blockscout-instance.com:443 cookie mynet check inter 60000 fastinter 1000 fall 3 rise 3 ssl verify none maxconn 30000
```

```
...
```

Change the following parameters to match your specific case \* backend mynet \*: \* \* acl is\_... \* \* requirep ... \* \* http-request set-header Host ... \* \* server mynet\_server... \* \* -don't forget to specify port 443 here \* \* \* backend mynet\_ws \*: \* \* http-

```
request set-header Host... * * http-request set-header Origin ... * * don't forget * * https * * here * * server mynet_server... * *  
-don't forget port 443 here * * *
```

Submit a PR to the configuration repo at <https://github.com/blockscout/haproxy-config>

Last updated 4 years ago