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Модуль Astra API Gateway

Модуль Astra DNS Gateway

**ДОКУМЕНТАЦИЯ, СОДЕРЖАЩАЯ ИНФОРМАЦИЮ, НЕОБХОДИМУЮ ДЛЯ
ЭКСПЛУАТАЦИИ ЭКЗЕМПЛЯРА ПРОГРАММНОГО ОБЕСПЕЧЕНИЯ,
ПРЕДОСТАВЛЕННОГО ДЛЯ ПРОВЕДЕНИЯ ЭКСПЕРТНОЙ ПРОВЕРКИ**

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1. ВВЕДЕНИЕ

Документ содержит описание функциональных характеристик экземпляра программного обеспечения, предоставленного для проведения экспертной проверки.

2. АУТЕНТИФИКАЦИЯ В СИСТЕМЕ ЧЕРЕЗ REST API С API-KEY

Аутентификация в REST API для управления системой осуществляется с использованием API-KEY ключа, пример выполнения запрос через утилиту curl:

```
curl --request GET \  
  --url http://158.160.10.218:8081/api/v1/ \  
  --header 'x-api-key: secret'
```

, где

- secret – API-KEY ключ.

В случае неуспешной аутентификации возвращается ошибка 401 Unauthorized:

```
HTTP/1.1 401 Unauthorized  
Connection: close  
Content-Length: 12  
Content-Type: text/plain; charset=utf-8  
  
Unauthorized
```

При успешной аутентификации, будет выполнена соответствующая REST операция и возвращен результат ее обработки, например:

```
HTTP/1.1 200 OK  
Access-Control-Allow-Origin: *  
Connection: close  
Content-Length: 328  
Content-Security-Policy: default-src 'self'; style-src 'self'  
'unsafe-inline'  
Content-Type: application/json  
X-Content-Type-Options: nosniff
```

```
X-Frame-Options: deny
X-Permitted-Cross-Domain-Policies: none
X-Xss-Protection: 1; mode=block
...
```

3. УПРАВЛЕНИЕ DNS-ЗОНАМИ

3.1. Создание авторитативной DNS-зоны

Для создания новой авторитативной зоны DNS необходимо выполнить POST-запрос через утилиту curl:

```
curl --request POST \
  --url
http://158.160.10.218:8081/api/v1/servers/localhost/zones \
  --header 'content-type: application/json' \
  --header 'x-api-key: secret' \
  --data '{"name": "example.lcl.", "kind": "Native", "masters":
[], "nameservers": ["ns1.example.lcl.", "ns2.example.lcl."}]'
```

, где

- name – Каноническое имя DNS зоны
- nameservers – Список NS серверов зоны.

В случае успешного выполнения операции будет возвращен код HTTP/1.1 201 Created и JSON с параметрами созданной зоны:

```
HTTP/1.1 201 Created
Access-Control-Allow-Origin: *
Connection: close
Content-Length: 920
Content-Security-Policy: default-src 'self'; style-src 'self'
'unsafe-inline'
Content-Type: application/json
X-Content-Type-Options: nosniff
X-Frame-Options: deny
X-Permitted-Cross-Domain-Policies: none
X-Xss-Protection: 1; mode=block
```

```
{
  "account": "",
  "api_rectify": false,
  "catalog": "",
  "dnssec": false,
  "edited_serial": 2025110601,
  "id": "company.lcl.",
  ...
  "url": "/api/v1/servers/localhost/zones/company.lcl."
}
```

Если зона уже существует, то будет выдана ошибка HTTP/1.1 409

Conflict:

```
HTTP/1.1 409 Conflict
Connection: close
Content-Length: 8
Content-Type: text/plain; charset=utf-8

Conflict
```

3.2. Список всех DNS-зон

Для получения списка всех зон DNS необходимо выполнить GET-запрос через утилиту curl:

```
curl --request GET \
  --url
http://158.160.10.218:8081/api/v1/servers/localhost/zones \
  --header 'x-api-key: secret '
```

В случае успешного выполнения операции будет возвращен список существующий в системе DNS-зон, например:

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Connection: close
Content-Length: 858
Content-Security-Policy: default-src 'self'; style-src 'self'
'unsafe-inline'
Content-Type: application/json
```

```
X-Content-Type-Options: nosniff
X-Frame-Options: deny
X-Permitted-Cross-Domain-Policies: none
X-Xss-Protection: 1; mode=block
```

```
[
  {
    "account": "",
    "catalog": "",
    "dnssec": false,
    "edited_serial": 2025110602,
    "id": "177.168.192.in-addr.arpa.",
    "kind": "Native",
    "last_check": 0,
    "masters": [],
    "name": "177.168.192.in-addr.arpa.",
    "notified_serial": 0,
    "serial": 2025110602,
    "url": "/api/v1/servers/localhost/zones/177.168.192.in-addr.arpa."
  },
  {
    "account": "",
    "catalog": "",
    "dnssec": false,
    "edited_serial": 2025110603,
    "id": "example.lcl.",
    "kind": "Native",
    "last_check": 0,
    "masters": [],
    "name": "example.lcl.",
    "notified_serial": 0,
    "serial": 2025110603,
    "url": "/api/v1/servers/localhost/zones/example.lcl."
  },
  {
    "account": "",
    "catalog": "",
    "dnssec": false,
    "edited_serial": 2025110601,
    "id": "company.lcl.",
    "kind": "Native",
    "last_check": 0,
    "masters": [],
    "name": "company.lcl.",
    "notified_serial": 0,
```

```
"serial": 2025110601,  
  "url": "/api/v1/servers/localhost/zones/company.lcl."  
}  
]
```

3.3. Информация по DNS-зоне

Для информации по конкретной зоне DNS необходимо выполнить GET-запрос через утилиту curl:

```
curl --request GET \  
  --url  
http://158.160.10.218:8081/api/v1/servers/localhost/zones/examp  
le.lcl. \  
  --header 'x-api-key: secret'
```

, где

- `example.lcl.` – каноническое представление DNS-зоны

В случае успешного выполнения операции будет возвращена информация по DNS-зоне, например:

```
HTTP/1.1 200 OK  
Access-Control-Allow-Origin: *  
Connection: close  
Content-Length: 1247  
Content-Security-Policy: default-src 'self'; style-src 'self'  
'unsafe-inline'  
Content-Type: application/json  
X-Content-Type-Options: nosniff  
X-Frame-Options: deny  
X-Permitted-Cross-Domain-Policies: none  
X-Xss-Protection: 1; mode=block  
  
{  
  "account": "",  
  "api_rectify": false,  
  "catalog": "",  
  "dnssec": false,  
  "edited_serial": 2025110603,
```

```
"id": "example.lcl.",
"kind": "Native",
"last_check": 0,
"master_tsig_key_ids": [],
"masters": [],
"name": "example.lcl.",
"notified_serial": 0,
"nsec3narrow": false,
"nsec3param": "",
"rrsets": [
  {
    "comments": [],
    "name": "www.example.lcl.",
    "records": [
      {
        "content": "192.168.177.10",
        "disabled": false,
        "modified_at": 1762438966
      }
    ],
    "ttl": 3600,
    "type": "A"
  },
  {
    "comments": [],
    "name": "server.example.lcl.",
    "records": [
      {
        "content": "192.168.177.20",
        "disabled": false,
        "modified_at": 1762438968
      }
    ],
    "ttl": 3600,
    "type": "A"
  },
  {
    "comments": [],
    "name": "example.lcl.",
    "records": [
      {
        "content": "a.misconfigured.dns.server.invalid.
hostmaster.example.lcl. 2025110603 10800 3600 604800 3600",
        "disabled": false,
        "modified_at": 1762438968
      }
    ]
  }
]
```

```
    ],
    "ttl": 3600,
    "type": "SOA"
  },
  {
    "comments": [],
    "name": "example.lcl.",
    "records": [
      {
        "content": "ns1.example.lcl.",
        "disabled": false,
        "modified_at": 1762438912
      },
      {
        "content": "ns2.example.lcl.",
        "disabled": false,
        "modified_at": 1762438912
      }
    ],
    "ttl": 3600,
    "type": "NS"
  }
],
"serial": 2025110603,
"slave_tsig_key_ids": [],
"soa_edit": "",
"soa_edit_api": "DEFAULT",
"url": "/api/v1/servers/localhost/zones/example.lcl."
}
```

Если зона не найдена, то будет возвращена ошибка HTTP/1.1 404 Not Found:

```
HTTP/1.1 404 Not Found
Connection: close
Content-Length: 9
Content-Type: text/plain; charset=utf-8

Not Found
```

3.4. Удаление DNS-зоны

Для удаления зоны DNS необходимо выполнить DELETE-запрос через утилиту curl:

```
curl --request DELETE \  
  --url  
http://158.160.10.218:8081/api/v1/servers/localhost/zones/compan  
y.lcl. \  
  --header 'x-api-key: secret'
```

В случае успеха будет возвращено:

```
HTTP/1.1 204 No Content  
Access-Control-Allow-Origin: *  
Connection: close  
Content-Length: 0  
Content-Security-Policy: default-src 'self'; style-src 'self'  
'unsafe-inline'  
X-Content-Type-Options: nosniff  
X-Frame-Options: deny  
X-Permitted-Cross-Domain-Policies: none  
X-Xss-Protection: 1; mode=block
```

4. НАПОЛНЕНИЕ DNS-ЗОНЫ ЗАПИСЯМИ

4.1. Добавление новой А-записи в DNS-зону

Для добавления новой А-записи в DNS-зоны необходимо выполнить PATCH-запрос через утилиту curl:

```
curl --request PATCH \  
  --url  
http://158.160.10.218:8081/api/v1/servers/localhost/zones/examp  
le.lcl. \  
  --header 'content-type: application/json' \  
  --header 'x-api-key: secret' \  
  --data '{"rrsets": [{"name": "server1.example.lcl.", "type":  
"A", "ttl": 3600, "changetype": "REPLACE", "records":  
[{"content": "192.168.177.21", "disabled": false}]}]}'
```

В случае успеха будет возвращено:

```
HTTP/1.1 204 No Content  
Access-Control-Allow-Origin: *  
Connection: close
```

```
Content-Length: 0
Content-Security-Policy: default-src 'self'; style-src 'self'
'unsafe-inline'
X-Content-Type-Options: nosniff
X-Frame-Options: deny
X-Pdns-New-Serial: 2025110605
X-Pdns-Old-Serial: 2025110605
X-Permitted-Cross-Domain-Policies: none
X-Xss-Protection: 1; mode=block
```

4.2. Удаление записи А-записи из DNS-зоны

Для удаления А-записи в DNS-зоне необходимо выполнить PATCH-запрос через утилиту curl:

```
curl --request PATCH \
  --url
http://158.160.10.218:8081/api/v1/servers/localhost/zones/example.lcl. \
  --header 'content-type: application/json' \
  --header 'x-api-key: secret' \
  --data '{"rrsets": [{"name": "server1.example.lcl.", "type":
"A", "ttl": 3600, "changetype": "DELETE", "records":
[{"content": "192.168.177.21", "disabled": false}]}]}'
```

В случае успеха будет возвращено:

```
HTTP/1.1 204 No Content
Access-Control-Allow-Origin: *
Connection: close
Content-Length: 0
Content-Security-Policy: default-src 'self'; style-src 'self'
'unsafe-inline'
X-Content-Type-Options: nosniff
X-Frame-Options: deny
X-Pdns-New-Serial: 2025110605
X-Pdns-Old-Serial: 2025110605
X-Permitted-Cross-Domain-Policies: none
X-Xss-Protection: 1; mode=block
```

5. ПРОВЕРКА РАБОТЫ СИСТЕМЫ С ПОМОЩЬЮ УТИЛИТЫ NSLOOKUP

Для проверки работы системы и разрешения имени DNS-имени воспользуемся утилитой nslookup выполним следующие шаги:

1. Открываем терминал и запускаем утилиту nslookup
2. Задаем IP-адрес сервера DNS выполнив: server 158.160.10.218
3. Задаем порт балансировщика запросов: set port=5300
4. Выполняем разрешение доменного имени в IP-адрес: server.example.lcl

Результат выполнения шагов представлен ниже:

```
→ nslookup
> server 158.160.10.218
Default server: 158.160.10.218
Address: 158.160.10.218#53
> set port=5300
> server.example.lcl
Server:          158.160.10.218
Address:         158.160.10.218#5300

Name:   server.example.lcl
Address: 192.168.177.20
> █
```

6. ПОЛУЧЕНИЕ МЕТРИК РАБОТЫ СИСТЕМЫ БАЛАНСИРОВКИ

Для получения основных метрик работы сервиса балансировки необходимо выполнить GET-запрос через утилиту curl:

```
curl --request GET \
  --url http://158.160.10.218:8083/metrics \
  --header 'authorization: Basic XXXXXX' \
```

В случае успеха будет возвращено:

```
HTTP/1.1 200 OK
Transfer-Encoding: chunked
Connection: close
```

```
Content-Security-Policy: default-src 'self'; style-src 'self'
'unsafe-inline'
```

```
Content-Type: text/plain; version=0.0.4
```

```
X-Content-Type-Options: nosniff
```

```
X-Frame-Options: deny
```

```
X-Permitted-Cross-Domain-Policies: none
```

```
X-Xss-Protection: 1; mode=block
```

```
dnsdist_responses 13
```

```
dnsdist_servfail_responses 0
```

```
dnsdist_queries 13
```

```
dnsdist_frontend_nxdomain 0
```

```
dnsdist_frontend_servfail 0
```

```
dnsdist_frontend_noerror 13
```

```
dnsdist_acl_drops 0
```

```
dnsdist_rule_drop 0
```

```
dnsdist_rule_nxdomain 0
```

```
dnsdist_rule_refused 0
```

```
dnsdist_rule_servfail 0
```

```
dnsdist_rule_truncated 0
```

```
dnsdist_self_answered 0
```

```
dnsdist_downstream_timeouts 0
```

```
dnsdist_downstream_send_errors 0
```

```
dnsdist_trunc_failures 0
```

```
dnsdist_no_policy 0
```

```
dnsdist_latency0_1 13
```

```
dnsdist_latency1_10 0
```

```
dnsdist_latency10_50 0
```

```
dnsdist_latency50_100 0
```

```
dnsdist_latency100_1000 0
```

```
dnsdist_latency_slow 0
```

```
dnsdist_latency_avg100 52.0066
```

```
dnsdist_latency_avg1000 5.48005
```

```
dnsdist_latency_avg10000 0.550905
```

```
dnsdist_latency_avg100000 0.00551225
```

```
dnsdist_latency_tcp_avg100 0
```

```
dnsdist_latency_tcp_avg1000 0
```

```
dnsdist_latency_tcp_avg10000 0
```

```
dnsdist_latency_tcp_avg100000 0
```

```
dnsdist_latency_dot_avg100 0
```

```
dnsdist_latency_dot_avg1000 0
```

```
dnsdist_latency_dot_avg10000 0
```

```
dnsdist_latency_dot_avg100000 0
```

```
dnsdist_latency_doh_avg100 0
```

```
dnsdist_latency_doh_avg1000 0
```

```
dnsdist_latency_doh_avg10000 0
```

```
dnsdist_latency_doh_avg1000000 0
dnsdist_latency_doq_avg100 0
dnsdist_latency_doq_avg1000 0
dnsdist_latency_doq_avg10000 0
dnsdist_latency_doq_avg1000000 0
dnsdist_uptime 9001
dnsdist_real_memory_usage 81104896
dnsdist_udp_in_errors 0
dnsdist_udp_noport_errors 0
dnsdist_udp_recvbuf_errors 0
dnsdist_udp_sndbuf_errors 0
dnsdist_udp_in_csum_errors 0
dnsdist_udp6_in_errors 0
dnsdist_udp6_recvbuf_errors 0
dnsdist_udp6_sndbuf_errors 0
dnsdist_udp6_noport_errors 0
dnsdist_udp6_in_csum_errors 0
dnsdist_tcp_listen_overflows 0
dnsdist_noncompliant_queries 0
dnsdist_noncompliant_responses 0
dnsdist_proxy_protocol_invalid 0
dnsdist_rdqueries 13
dnsdist_empty_queries 0
dnsdist_cache_hits 0
dnsdist_cache_misses 0
dnsdist_cpu_iowait 55667
dnsdist_cpu_steal 353
dnsdist_cpu_sys_msec 3984
dnsdist_cpu_user_msec 2172
dnsdist_fd_usage 90
dnsdist_dyn_blocked 0
dnsdist_dyn_block_nmg_size 0
dnsdist_security_status 1
dnsdist_doh_query_pipe_full 0
dnsdist_doh_response_pipe_full 0
dnsdist_outgoing_doh_query_pipe_full 0
dnsdist_tcp_query_pipe_full 0
dnsdist_tcp_cross_protocol_query_pipe_full 0
dnsdist_tcp_cross_protocol_response_pipe_full 0
dnsdist_latency_bucket{le="1"} 13
dnsdist_latency_bucket{le="10"} 13
dnsdist_latency_bucket{le="50"} 13
dnsdist_latency_bucket{le="100"} 13
dnsdist_latency_bucket{le="1000"} 13
dnsdist_latency_bucket{le="+Inf"} 13
dnsdist_latency_sum 0
```

```
dnsdist_latency_count 13
dnsdist_server_status{server="ns1",address="172.28.0.10:53"} 1
dnsdist_server_queries{server="ns1",address="172.28.0.10:53"} 13
dnsdist_server_responses{server="ns1",address="172.28.0.10:53"}
13
dnsdist_server_noncompliantresponses{server="ns1",address="172.2
8.0.10:53"} 0
dnsdist_server_drops{server="ns1",address="172.28.0.10:53"} 0
dnsdist_server_latency{server="ns1",address="172.28.0.10:53"}
0.036822
dnsdist_server_tcplatency{server="ns1",address="172.28.0.10:53"}
0
dnsdist_server_senderrors{server="ns1",address="172.28.0.10:53"}
0
dnsdist_server_outstanding{server="ns1",address="172.28.0.10:53"
} 0
dnsdist_server_order{server="ns1",address="172.28.0.10:53"} 1
dnsdist_server_weight{server="ns1",address="172.28.0.10:53"} 1
dnsdist_server_tcpdiedsendingquery{server="ns1",address="172.28.
0.10:53"} 0
dnsdist_server_tcpdiedreadingresponse{server="ns1",address="172.
28.0.10:53"} 0
dnsdist_server_tcpgaveup{server="ns1",address="172.28.0.10:53"}
0
dnsdist_server_tcpreadtimeouts{server="ns1",address="172.28.0.10
:53"} 0
dnsdist_server_tcpwritetimeouts{server="ns1",address="172.28.0.1
0:53"} 0
dnsdist_server_tcpconnecttimeouts{server="ns1",address="172.28.0
.10:53"} 0
dnsdist_server_tcpcurrentconnections{server="ns1",address="172.2
8.0.10:53"} 0
dnsdist_server_tcpmaxconcurrentconnections{server="ns1",address=
"172.28.0.10:53"} 0
dnsdist_server_tcptoomanyconcurrentconnections{server="ns1",addr
ess="172.28.0.10:53"} 0
dnsdist_server_tcpnewconnections{server="ns1",address="172.28.0.
10:53"} 0
dnsdist_server_tcpreusedconnections{server="ns1",address="172.28
.0.10:53"} 0
dnsdist_server_tcpavgqueriesperconn{server="ns1",address="172.28
.0.10:53"} 0
dnsdist_server_tcpavgconnduration{server="ns1",address="172.28.0
.10:53"} 0
dnsdist_server_tlsresumptions{server="ns1",address="172.28.0.10:
53"} 0
```

```
dnsmdist_server_healthcheckfailures{server="ns1",address="172.28.0.10:53"} 0
dnsmdist_server_healthcheckfailuresparsing{server="ns1",address="172.28.0.10:53"} 0
dnsmdist_server_healthcheckfailurestimeout{server="ns1",address="172.28.0.10:53"} 0
dnsmdist_server_healthcheckfailuresnetwork{server="ns1",address="172.28.0.10:53"} 0
dnsmdist_server_healthcheckfailuresmismatch{server="ns1",address="172.28.0.10:53"} 0
dnsmdist_server_healthcheckfailuresinvalid{server="ns1",address="172.28.0.10:53"} 0
dnsmdist_server_status{server="ns2",address="172.28.0.20:53"} 1
dnsmdist_server_queries{server="ns2",address="172.28.0.20:53"} 0
dnsmdist_server_responses{server="ns2",address="172.28.0.20:53"} 0
dnsmdist_server_noncompliantresponses{server="ns2",address="172.28.0.20:53"} 0
dnsmdist_server_drops{server="ns2",address="172.28.0.20:53"} 0
dnsmdist_server_latency{server="ns2",address="172.28.0.20:53"} 0
dnsmdist_server_tcpllatency{server="ns2",address="172.28.0.20:53"} 0
dnsmdist_server_senderrors{server="ns2",address="172.28.0.20:53"} 0
dnsmdist_server_outstanding{server="ns2",address="172.28.0.20:53"} 0
dnsmdist_server_order{server="ns2",address="172.28.0.20:53"} 1
dnsmdist_server_weight{server="ns2",address="172.28.0.20:53"} 1
dnsmdist_server_tcpdiedsendingquery{server="ns2",address="172.28.0.20:53"} 0
dnsmdist_server_tcpdiedreadingresponse{server="ns2",address="172.28.0.20:53"} 0
dnsmdist_server_tcpgaveup{server="ns2",address="172.28.0.20:53"} 0
dnsmdist_server_tcpreadtimeouts{server="ns2",address="172.28.0.20:53"} 0
dnsmdist_server_tcpwritetimeouts{server="ns2",address="172.28.0.20:53"} 0
dnsmdist_server_tcpconnecttimeouts{server="ns2",address="172.28.0.20:53"} 0
dnsmdist_server_tcpcurrentconnections{server="ns2",address="172.28.0.20:53"} 0
dnsmdist_server_tcpmaxconcurrentconnections{server="ns2",address="172.28.0.20:53"} 0
dnsmdist_server_tcptoomanyconcurrentconnections{server="ns2",address="172.28.0.20:53"} 0
```

```
dnsdist_server_tcpnewconnections{server="ns2",address="172.28.0.20:53"} 0
dnsdist_server_tcpreusedconnections{server="ns2",address="172.28.0.20:53"} 0
dnsdist_server_tcpavgqueriesperconn{server="ns2",address="172.28.0.20:53"} 0
dnsdist_server_tcpavgconnnduration{server="ns2",address="172.28.0.20:53"} 0
dnsdist_server_tlsresumptions{server="ns2",address="172.28.0.20:53"} 0
dnsdist_server_healthcheckfailures{server="ns2",address="172.28.0.20:53"} 0
dnsdist_server_healthcheckfailuresparsing{server="ns2",address="172.28.0.20:53"} 0
dnsdist_server_healthcheckfailurestimeout{server="ns2",address="172.28.0.20:53"} 0
dnsdist_server_healthcheckfailuresnetwork{server="ns2",address="172.28.0.20:53"} 0
dnsdist_server_healthcheckfailuresmismatch{server="ns2",address="172.28.0.20:53"} 0
dnsdist_server_healthcheckfailuresinvalid{server="ns2",address="172.28.0.20:53"} 0
dnsdist_frontend_queries{frontend="0.0.0.0:53",proto="TCP",thread="0"} 0
dnsdist_frontend_noncompliantqueries{frontend="0.0.0.0:53",proto="TCP",thread="0"} 0
dnsdist_frontend_responses{frontend="0.0.0.0:53",proto="TCP",thread="0"} 0
dnsdist_frontend_tcpdiedreadingquery{frontend="0.0.0.0:53",proto="TCP",thread="0"} 0
dnsdist_frontend_tcpdiedsendingresponse{frontend="0.0.0.0:53",proto="TCP",thread="0"} 0
dnsdist_frontend_tcpgaveup{frontend="0.0.0.0:53",proto="TCP",thread="0"} 0
dnsdist_frontend_tcpclienttimeouts{frontend="0.0.0.0:53",proto="TCP",thread="0"} 0
dnsdist_frontend_tcpdownstreamtimeouts{frontend="0.0.0.0:53",proto="TCP",thread="0"} 0
dnsdist_frontend_tcpcurrentconnections{frontend="0.0.0.0:53",proto="TCP",thread="0"} 0
dnsdist_frontend_tcpmaxconcurrentconnections{frontend="0.0.0.0:53",proto="TCP",thread="0"} 0
dnsdist_frontend_tcpavgqueriesperconnection{frontend="0.0.0.0:53",proto="TCP",thread="0"} 0
dnsdist_frontend_tcpavgconnectionduration{frontend="0.0.0.0:53",proto="TCP",thread="0"} 0
```

```
dnsmdist_frontend_tcpavgreadios{frontend="0.0.0.0:53",proto="TCP",thread="0"} 0
dnsmdist_frontend_queries{frontend="0.0.0.0:53",proto="UDP",thread="0"} 5
dnsmdist_frontend_noncompliantqueries{frontend="0.0.0.0:53",proto="UDP",thread="0"} 0
dnsmdist_frontend_responses{frontend="0.0.0.0:53",proto="UDP",thread="0"} 5
dnsmdist_frontend_queries{frontend="0.0.0.0:53",proto="TCP",thread="1"} 0
dnsmdist_frontend_noncompliantqueries{frontend="0.0.0.0:53",proto="TCP",thread="1"} 0
dnsmdist_frontend_responses{frontend="0.0.0.0:53",proto="TCP",thread="1"} 0
dnsmdist_frontend_tcpdiedreadingquery{frontend="0.0.0.0:53",proto="TCP",thread="1"} 0
dnsmdist_frontend_tcpdiedsendingresponse{frontend="0.0.0.0:53",proto="TCP",thread="1"} 0
dnsmdist_frontend_tcpgaveup{frontend="0.0.0.0:53",proto="TCP",thread="1"} 0
dnsmdist_frontend_tcpclienttimeouts{frontend="0.0.0.0:53",proto="TCP",thread="1"} 0
dnsmdist_frontend_tcpdownstreamtimeouts{frontend="0.0.0.0:53",proto="TCP",thread="1"} 0
dnsmdist_frontend_tcpcurrentconnections{frontend="0.0.0.0:53",proto="TCP",thread="1"} 0
dnsmdist_frontend_tcpmaxconcurrentconnections{frontend="0.0.0.0:53",proto="TCP",thread="1"} 0
dnsmdist_frontend_tcpavgqueriesperconnection{frontend="0.0.0.0:53",proto="TCP",thread="1"} 0
dnsmdist_frontend_tcpavgconnectionduration{frontend="0.0.0.0:53",proto="TCP",thread="1"} 0
dnsmdist_frontend_tcpavgreadios{frontend="0.0.0.0:53",proto="TCP",thread="1"} 0
dnsmdist_frontend_queries{frontend="0.0.0.0:53",proto="UDP",thread="1"} 8
dnsmdist_frontend_noncompliantqueries{frontend="0.0.0.0:53",proto="UDP",thread="1"} 0
dnsmdist_frontend_responses{frontend="0.0.0.0:53",proto="UDP",thread="1"} 8
dnsmdist_pool_servers{pool="authpool"} 2
dnsmdist_pool_active_servers{pool="authpool"} 2
dnsmdist_pool_servers{pool="_default_"} 0
dnsmdist_pool_active_servers{pool="_default_"} 0
dnsmdist_rule_hits{id="all_to_auth"} 13
```