ООО «Астра Консалтинг»

Астра ИС МД (Инфраструктурные Сервисы)

Модуль Astra Балансировщик

Модуль Astra DNS Gateway

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

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СОДЕРЖАНИЕ

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.

API Secret для подключения к стекнду - ygVoP5Xw9StNCLhFYzodnr5HqquJyurZ

user: user

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/exampl
e.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/company.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 A-записи в DNS-зону

Для добавления новой A-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/example.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 A-записи из DNS-зоны

Для удаления A-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/exampl
e.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
```

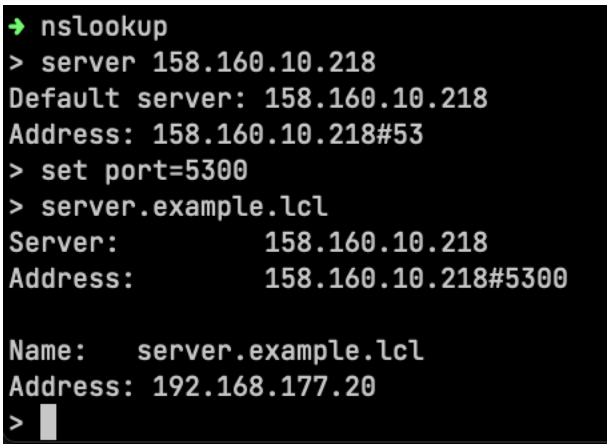
```
X-Xss-Protection: 1; mode=block
```

5. ПРОВЕРКА РАБОТЫ СИСТЕМЫ С ПОМОЩЬЮ УТИЛИТЫ NSLOOKUP

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

1. Открываем терминал и запускам 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:



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_avg1000000 0.00551225
dnsdist_latency_tcp_avg100 0
dnsdist_latency_tcp_avg1000 0
dnsdist_latency_tcp_avg10000 0
dnsdist_latency_tcp_avg1000000 0
dnsdist_latency_dot_avg100 0
dnsdist_latency_dot_avg1000 0
```

```
dnsdist_latency_dot_avg10000 0
dnsdist_latency_dot_avg1000000 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
dnsdist_server_healthcheckfailures{server="ns1",address="172.28.
0.10:53"} 0
dnsdist_server_healthcheckfailuresparsing{server="ns1",address="
172.28.0.10:53"} 0
dnsdist_server_healthcheckfailurestimeout{server="ns1",address="
172.28.0.10:53"} 0
dnsdist_server_healthcheckfailuresnetwork{server="ns1",address="
172.28.0.10:53"} 0
dnsdist_server_healthcheckfailuresmismatch{server="ns1",address=
"172.28.0.10:53"} 0
dnsdist_server_healthcheckfailuresinvalid{server="ns1",address="
172.28.0.10:53"} 0
dnsdist_server_status{server="ns2",address="172.28.0.20:53"} 1
dnsdist_server_queries{server="ns2",address="172.28.0.20:53"} 0
dnsdist_server_responses{server="ns2",address="172.28.0.20:53"}
0
dnsdist_server_noncompliantresponses{server="ns2",address="172.2
8.0.20:53"} 0
dnsdist_server_drops{server="ns2",address="172.28.0.20:53"} 0
dnsdist_server_latency{server="ns2",address="172.28.0.20:53"} 0
dnsdist_server_tcplatency{server="ns2",address="172.28.0.20:53"}
0
dnsdist_server_senderrors{server="ns2",address="172.28.0.20:53"}
0
dnsdist_server_outstanding{server="ns2",address="172.28.0.20:53"
} 0
dnsdist_server_order{server="ns2",address="172.28.0.20:53"} 1
dnsdist_server_weight{server="ns2",address="172.28.0.20:53"} 1
dnsdist_server_tcpdiedsendingquery{server="ns2",address="172.28.
0.20:53"} 0
dnsdist_server_tcpdiedreadingresponse{server="ns2",address="172.
28.0.20:53"} 0
dnsdist_server_tcpgaveup{server="ns2",address="172.28.0.20:53"}
0
dnsdist_server_tcpreadtimeouts{server="ns2",address="172.28.0.20
:53"} 0
dnsdist_server_tcpwritetimeouts{server="ns2",address="172.28.0.2
0:53"} 0
dnsdist_server_tcpconnecttimeouts{server="ns2",address="172.28.0
.20:53"} 0
```

```
dnsdist_server_tcpcurrentconnections{server="ns2",address="172.28.0.20:53"} 0
dnsdist_server_tcpmaxconcurrentconnections{server="ns2",address="172.28.0.20:53"} 0
dnsdist_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_tcpavgconnduration{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="0.0.0.0:5
3",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
dnsdist_frontend_tcpavgreadios{frontend="0.0.0.0:53",proto="TCP"
,thread="0"} 0
dnsdist_frontend_queries{frontend="0.0.0.0:53",proto="UDP",threa
d="0"} 5
dnsdist_frontend_noncompliantqueries{frontend="0.0.0.0:53",proto
="UDP",thread="0"} 0
dnsdist_frontend_responses{frontend="0.0.0.0:53",proto="UDP",thr
ead="0"} 5
dnsdist_frontend_queries{frontend="0.0.0.0:53",proto="TCP",threa
d="1"} 0
dnsdist_frontend_noncompliantqueries{frontend="0.0.0.0:53",proto
="TCP",thread="1"} 0
dnsdist_frontend_responses{frontend="0.0.0.0:53",proto="TCP",thr
ead="1"} 0
dnsdist_frontend_tcpdiedreadingquery{frontend="0.0.0.0:53",proto
="TCP",thread="1"} 0
dnsdist_frontend_tcpdiedsendingresponse{frontend="0.0.0.0:53",pr
oto="TCP",thread="1"} 0
dnsdist_frontend_tcpgaveup{frontend="0.0.0.0:53",proto="TCP",thr
ead="1"} 0
dnsdist_frontend_tcpclienttimeouts{frontend="0.0.0.0:53",proto="
TCP",thread="1"} 0
dnsdist_frontend_tcpdownstreamtimeouts{frontend="0.0.0.0:53",pro
to="TCP",thread="1"} 0
dnsdist_frontend_tcpcurrentconnections{frontend="0.0.0.0:53",pro
to="TCP",thread="1"} 0
dnsdist_frontend_tcpmaxconcurrentconnections{frontend="0.0.0.0:5
3",proto="TCP",thread="1"} 0
dnsdist_frontend_tcpavgqueriesperconnection{frontend="0.0.0.0:53
",proto="TCP",thread="1"} 0
dnsdist_frontend_tcpavgconnectionduration{frontend="0.0.0.0:53",
proto="TCP",thread="1"} 0
dnsdist_frontend_tcpavgreadios{frontend="0.0.0.0:53",proto="TCP"
,thread="1"} 0
dnsdist_frontend_queries{frontend="0.0.0.0:53",proto="UDP",threa
d="1"} 8
dnsdist_frontend_noncompliantqueries{frontend="0.0.0.0:53",proto
="UDP",thread="1"} 0
dnsdist_frontend_responses{frontend="0.0.0.0:53",proto="UDP",thr
ead="1"} 8
```

```
dnsdist_pool_servers{pool="authpool"} 2
dnsdist_pool_active_servers{pool="authpool"} 2
dnsdist_pool_servers{pool="_default_"} 0
dnsdist_pool_active_servers{pool="_default_"} 0
dnsdist_rule_hits{id="all_to_auth"} 13
```