

**OPEN
RHEIN
RUHR**
Ein Pott voll Software

All your RESTful APIs are belong to us

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\$ finger fkr





OSB Open Source
Business
ALLIANCE



API?



REST?



*RE*presentational State Transfer



Client-Server



Zustandslosigkeit



Caching



Einheitliche Schnittstelle



Schnittstelle

- ❖ Adressierbarkeit von Ressourcen
- ❖ Repräsentation von Veränderung zur Ressource
- ❖ Selbstbeschreibene Nachrichten
- ❖ HATEOS



Mehrschichtige Systeme



Code on Demand



REST

- ❖ Client-Server
- ❖ Zustandslosigkeit
- ❖ Caching
- ❖ Einheitliche Schnittstelle
- ❖ Mehrschichtige Systeme
- ❖ Code on Demand



HTTP Methoden



GET




```
$ curl "https://api.sandbox.dnssimple.com/v2/accounts" \  
-H 'Authorization: Bearer  
imobiemoaGoow7eiphiNeiseipheibak'
```



```
{
  "data": [
    {
      "id": 499,
      "email": "foo@example.com",
      "plan_identifier": "dnsimple-personal",
      "created_at": "2018-01-09T15:26:57Z",
      "updated_at": "2018-10-31T14:05:30Z"
    }
  ]
}
```



```
$ curl "https://api.sandbox.dnssimple.com/v2/699/zones" \  
-H 'Authorization: Bearer  
imobiemoaGoow7eiphiNeiseipheibak'
```



```
{
  "data": [
    {
      "id": 33599,
      "account_id": 499,
      "name": "example.com",
      "reverse": false,
      "created_at": "2018-01-12T04:58:43Z",
      "updated_at": "2018-05-26T11:31:07Z"
    }
  ],
  ...
}
```



POST



```
$ curl -X "POST" "https://api.sandbox.dnsimple.com/v2/499/zones/example.com/records" \  
  -H 'Authorization: Bearer imobiemoaGoow7eiphiNeiseipheibak' \  
  -H 'Content-Type: application/json; charset=utf-8' \  
  -d $'{  
  "name": "orr",  
  "type": "A",  
  "content": "127.0.0.1"  
}'
```



```
{
  "data": {
    "id": 784148,
    "zone_id": "example.com",
    "parent_id": null,
    "name": "orr",
    "content": "127.0.0.1",
    "ttl": 3600,
    "priority": null,
    "type": "A",
    "regions": [
      "global"
    ],
    "system_record": false,
    "created_at": "2018-11-03T12:05:40Z",
    "updated_at": "2018-11-03T12:05:40Z"
  }
}
```



PATCH




```
curl -X "PATCH" "https://api.sandbox.dnssimple.com/v2/499/
zones/example.com/records/784148" \
  -H 'Authorization: Bearer
imobiemoaGoow7eiphiNeiseipheibak' \
  -H 'Content-Type: application/json; charset=utf-8' \
  -d $'{
"name": "orr",
"type": "A",
"content": "127.0.0.2"
}'
```



```
{
  "data": {
    "id": 784148,
    "zone_id": "example.com",
    "parent_id": null,
    "name": "orr",
    "content": "127.0.0.2",
    "ttl": 3600,
    "priority": null,
    "type": "A",
    "regions": [
      "global"
    ],
    "system_record": false,
    "created_at": "2018-11-03T12:05:40Z",
    "updated_at": "2018-11-03T12:17:37Z"
  }
}
```



PUT



DELETE



```
curl -X "DELETE" "https://api.sandbox.dnsimple.com/v2/499/  
zones/example.com/records/784148" \  
-H 'Authorization: Bearer  
imobiemoaGoow7eiphiNeiseipheibak' \  
-H 'Content-Type: application/json; charset=utf-8' \  
-d '{}'
```



HTTP / 1.1 204 No Content

Server: nginx

Date: Sat, 03 Nov 2018 12:24:17 GMT

Connection: close

X-RateLimit-Limit: 2400

X-RateLimit-Remaining: 2399

X-RateLimit-Reset: 1541251457

Cache-Control: no-cache

X-Request-Id: 813889e3-fdf6-4169-ab20-66d667a2b3d0

X-Runtime: 0.061785

X-Frame-Options: DENY

X-Content-Type-Options: nosniff

X-XSS-Protection: 1; mode=block

X-Download-Options: noopen

X-Permitted-Cross-Domain-Policies: none

Strict-Transport-Security: max-age=31536000



Werkzeuge

❖ curl

❖ Postman

❖ Paw



Beispiel von APIs



dnsimple



request tracker



gridscale



Lesenswert!





Danke fürs Zuhören!



Vielen Dank an die ORR Orga!



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