

Step By Step Payload and DB Check:

1. Add A record:

```
{
  "hostname": "www.example.com",
  "type": "A",
  "value": ["192.168.1.1"],
  "ttl_seconds": 3600
}
```

```
{ "message": "Record added", "hostname": "www.example.com" }
```

```
dns_db=# select * from dns_records;
 hostname | type | value | timestamp_created | ttl_seconds | id
-----+-----+-----+-----+-----+-----
 www.example.com | A | ["192.168.1.1"] | 2025-05-04 21:47:48.474965 | 3600 | 195
(1 row)
```

2. Add AAAA Record

```
{
  "hostname": "ipv6.example.com",
  "type": "AAAA",
  "value": ["2001:0db8:85a3:0000:0000:8a2e:0370:7334"],
  "ttl_seconds": 3600
}
```

```
{ "message": "Record added", "hostname": "ipv6.example.com" }
```

```
dns_db=# select * from dns_records;
 hostname | type | value | timestamp_created | ttl_seconds | id
-----+-----+-----+-----+-----+-----
 www.example.com | A | ["192.168.1.1"] | 2025-05-04 21:47:48.474965 | 3600 | 195
 ipv6.example.com | AAAA | ["2001:0db8:85a3:0000:0000:8a2e:0370:7334"] | 2025-05-04 21:48:45.472514 | 3600 | 196
(2 rows)
```

3. Add CNAME Record:

```
{
  "hostname": "blog.example.com",
  "type": "CNAME",
  "value": "www.example.com",
  "ttl_seconds": 3600
}
```

```
{ "message": "Record added", "hostname": "blog.example.com" }
```

```
dns_db=# select * from dns_records;
 hostname | type | value | timestamp_created | ttl_seconds | id
-----+-----+-----+-----+-----+-----
 www.example.com | A | "[\\"192.168.1.1\\"]" | 2025-05-04 21:47:48.474965 | 3600 | 195
 ipv6.example.com | AAAA | "[\\"2001:db8:85a3::8a2e:370:7334\\"]" | 2025-05-04 21:48:45.472514 | 3600 | 196
 blog.example.com | CNAME | "\\"www.example.com\\""" | 2025-05-04 21:49:32.004977 | 3600 | 197
(3 rows)
```

4. Add MX Record:

```
{
  "hostname": "example.com",
  "type": "MX",
  "value": {
    "priority": 10,
    "host": "mail.example.com"
  },
  "ttl_seconds": 3600
}
```

```
{ "message": "Record added", "hostname": "example.com" }
```

```
dns_db=# select * from dns_records;
 hostname | type | value | timestamp_created | ttl_seconds | id
-----+-----+-----+-----+-----+-----
 www.example.com | A | "[\\"192.168.1.1\\"]" | 2025-05-04 21:47:48.474965 | 3600 | 195
 ipv6.example.com | AAAA | "[\\"2001:db8:85a3::8a2e:370:7334\\"]" | 2025-05-04 21:48:45.472514 | 3600 | 196
 blog.example.com | CNAME | "\\"www.example.com\\""" | 2025-05-04 21:49:32.004977 | 3600 | 197
 example.com | MX | "{\\"priority\\": 10, \\"host\\": \\"mail.example.com\\"}" | 2025-05-04 21:50:06.270781 | 3600 | 198
(4 rows)
```

5. Add TXT Record:

```
{
  "hostname": "sample.example.com",
  "type": "TXT",
  "value": ["v=spf1 include:_spf.example.com ~all"],
  "ttl_seconds": 3600
}
```

```
{ "message": "Record added", "hostname": "sample.example.com" }
```

```
dns_db=# select * from dns_records;
```

hostname	type	value	timestamp_created	ttl_seconds	id
www.example.com	A	"["192.168.1.1\""]"	2025-05-04 21:47:48.474965	3600	195
ipv6.example.com	AAAA	"["2001:db8:85a3::8a2e:370:7334\""]"	2025-05-04 21:48:45.472514	3600	196
blog.example.com	CNAME	"\"www.example.com\""	2025-05-04 21:49:32.004977	3600	197
example.com	MX	"{\"priority\": 10, \"host\": \"mail.example.com\"}"	2025-05-04 21:50:06.270781	3600	198
sample.example.com	TXT	"[\"v=spf1 include:_spf.example.com ~all\""]"	2025-05-04 21:51:32.420567	3600	199

(5 rows)

6. Add 2 more A records:

```
{
  "hostname": "www.example.com",

  "type": "A",

  "value": ["192.168.1.2", "1.1.1.1"],

  "ttl_seconds": 3600
}

{ "message": "Record added", "hostname": "www.example.com" }
```

```
dns_db=# select * from dns_records;
```

hostname	type	value	timestamp_created	ttl_seconds	id
www.example.com	A	"["192.168.1.1\""]"	2025-05-04 21:47:48.474965	3600	195
ipv6.example.com	AAAA	"["2001:db8:85a3::8a2e:370:7334\""]"	2025-05-04 21:48:45.472514	3600	196
blog.example.com	CNAME	"\"www.example.com\""	2025-05-04 21:49:32.004977	3600	197
example.com	MX	"{\"priority\": 10, \"host\": \"mail.example.com\"}"	2025-05-04 21:50:06.270781	3600	198
sample.example.com	TXT	"[\"v=spf1 include:_spf.example.com ~all\""]"	2025-05-04 21:51:32.420567	3600	199
www.example.com	A	"["192.168.1.2", "1.1.1.1\""]"	2025-05-04 21:53:04.832266	3600	200

(6 rows)

7. List Records:

example.com

```
{ "hostname": "example.com", "records": [ { "type": "MX", "value": { "priority": 10,
"host": "mail.example.com" } } ] }
```

list : www.example.com:

```
{ "hostname": "www.example.com", "records": [ { "type": "A", "value": "192.168.1.1" },
{ "type": "A", "value": [ "192.168.1.2", "1.1.1.1" ] } ] }
```

List: not.available

```
{ "detail": "No records found for hostname" }
```

8. Resolve IP:

yz.example.com

```
{ "detail": "Record not found or expired" }
```

```
dns_db=# select * from dns_records;
 hostname | type | value | timestamp_created | ttl_seconds | id
-----+-----+-----+-----+-----+---
 www.example.com | A | ["192.168.1.1"] | 2025-05-04 21:47:48.474965 | 3600 | 195
 ipv6.example.com | AAAA | ["2001:db8:85a3::8a2e:370:7334"] | 2025-05-04 21:48:45.472514 | 3600 | 196
 blog.example.com | CNAME | ["www.example.com"] | 2025-05-04 21:49:32.004977 | 3600 | 197
 example.com | MX | [{"priority": 10, "host": "mail.example.com"}] | 2025-05-04 21:50:06.270781 | 3600 | 198
 sample.example.com | TXT | ["v=spf1 include:spf.example.com ~all"] | 2025-05-04 21:51:32.420567 | 3600 | 199
 www.example.com | A | ["192.168.1.2", "1.1.1.1"] | 2025-05-04 21:53:04.832266 | 3600 | 200
(6 rows)
```

blog.example.com:

```
{ "hostname": "blog.example.com", "resolvedIps": [ "192.168.1.1", "192.168.1.2",
"1.1.1.1" ], "recordType": "CNAME", "pointsTo": "www.example.com" }
```

9. Delete record:

DELETE

/api/dns/{hostname}

Delete Dns Record

Cancel

Parameters

Name	Description
hostname * required	
string (path)	www.example.com
type * required	
string (query)	A
value * required	
string (query)	1.1.1.1
x-api-key * required	
string (header)	supersecret

ExecuteClear

Responses

Curl

curl -X 'DELETE' \ 'http://localhost:8000/api/dns/www.example.com?type=A&value=1.1.1.1' \ -H 'accept: application/json' \ -H 'x-api-key: supersecret'

Request URL

http://localhost:8000/api/dns/www.example.com?type=A&value=1.1.1.1

Server response

Code	Details
200	<div>Response body</div> <div>{ "message": "Value 1.1.1.1 removed from record" }</div> <div>Response headers</div> <div>content-length: 47 content-type: application/json date: Sun, 04 May 2025 21:59:31 GMT server: uvicorn</div>

Download

DB:

hostname	type	value	timestamp_created	ttl_seconds	id
www.example.com	A	"[\"192.168.1.1\"]"	2025-05-04 21:47:48.474965	3600	195
ipv6.example.com	AAAA	"[\"2001:db8:85a3::8a2e:370:7334\"]"	2025-05-04 21:48:45.472514	3600	196
blog.example.com	CNAME	"[\"www.example.com\"]"	2025-05-04 21:49:32.004977	3600	197
example.com	MX	"[{\"priority\": 10, \"host\": \"mail.example.com\"}]"	2025-05-04 21:50:06.270781	3600	198
sample.example.com	TXT	"[\"v=spf1 include:_spf.example.com ~all\"]"	2025-05-04 21:51:32.420567	3600	199
www.example.com	A	"[\"192.168.1.2\"]"	2025-05-04 21:53:04.832266	3600	200
(6 rows)					

Bulk Import:

contents of file:

[
{

```
"hostname": "example.com",
"type": "A",
"value": ["192.168.1.1"],
"ttl_seconds": 3600
},
{
  "hostname": "example2.com",
  "type": "CNAME",
  "value": "example.com",
  "ttl_seconds": 3600
},
{
  "hostname": "invalidhostname",
  "type": "A",
  "value": ["999.999.999.999"],
  "ttl_seconds": 3600
},
{
  "hostname": "example3.com",
  "type": "MX",
  "value": {
    "priority": 10,
    "host": "mail.example3.com"
  },
  "ttl_seconds": 3600
},
{
  "hostname": "example4.com",
  "type": "A",
  "value": ["192.168.1.2"],
  "ttl_seconds": 3600
},
{
  "action": "delete",
  "hostname": "example.com",
  "type": "A",
  "value": "192.168.1.1"
},
{
  "hostname": "example5.com",
  "type": "TXT",
  "value": ["v=spf1 include:_spf.example.com ~all"],
  "ttl_seconds": 3600
},
```

```
{
  "hostname": "example6.com",
  "type": "A",
  "value": ["192.168.1.3"]
}
```

Result:

POST /api/dns/bulk/import Bulk Import Handler
Cancel Reset

Parameters

Name	Description
x-api-key <small>* required</small> string (header)	<input type="text" value="supersecret"/>

Request body required

multipart/form-data

file * required
string(\$binary)

sample.json

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:8080/api/dns/bulk/import' \
  -H 'accept: application/json' \
  -H 'x-api-key: supersecret' \
  -H 'Content-Type: multipart/form-data' \
  -F 'file=@sample.json;type=application/json'
```

Request URL

```
http://localhost:8080/api/dns/bulk/import
```

Server response

Code	Details
200	<div>Response body</div> <pre>{ "message": "Bulk import completed", "records_imported": 0, "records_skipped": 2, "errors": [{ "index": 1, "error": "Duplicate record already exists" }, { "index": 0, "error": "Record not found for this hostname" }] }</pre> <div>Download</div>
	<div>Response headers</div> <pre>content-length: 198 content-type: application/json date: Sun, 04 May 2025 22:01:51 GMT server: uvicorn</pre>

DB:

www.example.com	A	"["192.168.1.1"]"	2025-05-04 21:47:48.474965	3600	195
ipv6.example.com	AAAA	"["2001:db8:85a3::8a2e:370:7334"]"	2025-05-04 21:48:45.472514	3600	196
blog.example.com	CNAME	"\"www.example.com\""	2025-05-04 21:49:32.004977	3600	197
example.com	MX	"{\"priority\": 10, \"host\": \"mail.example.com\"}"	2025-05-04 21:50:06.270781	3600	198
sample.example.com	TXT	"[\"v=spf1 include:spf.example.com ~all\"]"	2025-05-04 21:51:32.420567	3600	199
www.example.com	A	"["192.168.1.2"]"	2025-05-04 21:53:04.832266	3600	200
example2.com	CNAME	"\"example.com\""	2025-05-04 22:01:52.659873	3600	201
invalidhostname	A	"["999.999.999.999"]"	2025-05-04 22:01:52.711219	3600	202
example3.com	MX	"{\"priority\": 10, \"host\": \"mail.example3.com\"}"	2025-05-04 22:01:52.771593	3600	203
example4.com	A	"["192.168.1.2"]"	2025-05-04 22:01:52.814935	3600	204
example5.com	TXT	"[\"v=spf1 include:spf.example.com ~all\"]"	2025-05-04 22:01:52.880325	3600	205
example6.com	A	"["192.168.1.3"]"	2025-05-04 22:01:52.944252	3600	206
(12 rows)					

Bulk Export:

[

```
{
  "hostname": "www.example.com",
  "type": "A",
  "value": "["192.168.1.1"]",
  "ttl_seconds": 3600,
  "timestamp_created": "2025-05-04T21:47:48.474965"
},
{
  "hostname": "ipv6.example.com",
  "type": "AAAA",
  "value": "["2001:db8:85a3::8a2e:370:7334"]",
  "ttl_seconds": 3600,
  "timestamp_created": "2025-05-04T21:48:45.472514"
},
{
  "hostname": "blog.example.com",
  "type": "CNAME",
  "value": "\"www.example.com\"",
  "ttl_seconds": 3600,
  "timestamp_created": "2025-05-04T21:49:32.004977"
},
{
  "hostname": "example.com",
  "type": "MX",
  "value": "{\"priority\": 10, \"host\": \"mail.example.com\"}",
  "ttl_seconds": 3600,
  "timestamp_created": "2025-05-04T21:50:06.270781"
},
{
  "hostname": "sample.example.com",
  "type": "TXT",
```



```
"value": "[\"v=spf1 include:_spf.example.com ~all\"]",
"ttl_seconds": 3600,
"timestamp_created": "2025-05-04T21:51:32.420567"
},
{
  "hostname": "www.example.com",
  "type": "A",
  "value": "[\"192.168.1.2\"]",
  "ttl_seconds": 3600,
  "timestamp_created": "2025-05-04T21:53:04.832266"
},
{
  "hostname": "example2.com",
  "type": "CNAME",
  "value": "\"example.com\"",
  "ttl_seconds": 3600,
  "timestamp_created": "2025-05-04T22:01:52.659873"
},
{
  "hostname": "invalidhostname",
  "type": "A",
  "value": "[\"999.999.999.999\"]",
  "ttl_seconds": 3600,
  "timestamp_created": "2025-05-04T22:01:52.711219"
},
{
  "hostname": "example3.com",
  "type": "MX",
  "value": "\"{'priority': 10, 'host': 'mail.example3.com'}\"",
  "ttl_seconds": 3600,
  "timestamp_created": "2025-05-04T22:01:52.771593"
},
{
  "hostname": "example4.com",
  "type": "A",
  "value": "[\"192.168.1.2\"]",
  "ttl_seconds": 3600,
  "timestamp_created": "2025-05-04T22:01:52.814935"
},
{
  "hostname": "example5.com",
  "type": "TXT",
  "value": "[\"v=spf1 include:_spf.example.com ~all\"]",
  "ttl_seconds": 3600,
```

```

    "timestamp_created": "2025-05-04T22:01:52.880325"
  },
  {
    "hostname": "example6.com",
    "type": "A",
    "value": "[\"192.168.1.3\"]",
    "ttl_seconds": 3600,
    "timestamp_created": "2025-05-04T22:01:52.944252"
  }
]

```

Curl

```
curl -X 'GET' \
  'http://localhost:8000/api/dns/bulk/export' \
  -H 'accept: application/json' \
  -H 'x-api-key: supersecret'
```

Request URL

http://localhost:8000/api/dns/bulk/export

Server response

Code Details

200

Response body

```
{
  "hostname": "example3.com",
  "type": "MX",
  "value": "\\{'priority': 10, 'host': 'mail.example3.com'}\\",
  "ttl_seconds": 3600,
  "timestamp_created": "2025-05-04T22:01:52.771593"
},
{
  "hostname": "example4.com",
  "type": "A",
  "value": "[\"192.168.1.2\"]",
  "ttl_seconds": 3600,
  "timestamp_created": "2025-05-04T22:01:52.814935"
},
{
  "hostname": "example5.com",
  "type": "TXT",
  "value": "[\"v=spf1 include:_spf.example.com ~all\"]",
  "ttl_seconds": 3600,
  "timestamp_created": "2025-05-04T22:01:52.880325"
},
{
  "hostname": "example6.com",
  "type": "A",
  "value": "[\"192.168.1.3\"]",
  "ttl_seconds": 3600,
  "timestamp_created": "2025-05-04T22:01:52.944252"
}
]
```

Response headers

```
content-length: 1796
content-type: application/json
date: Sun, 04 May 2025 22:04:04 GMT
server: uvicorn
```

Responses

Code	Description	Link
------	-------------	------