

DNSScode

1.6.4

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1 DNScode

1.1 Simplifying DNS Zone management

1.2 About

DNScode is a project to help simplify DNS zone management, when using plain text files with servers like BIND and NSD. It provides a framework for programmatically generating zone files with Python, allowing for more flexibility, compared to other DNS as code solutions.

1.3 Installation

```
bash
# Create working directory
mkdir dnsproject
cd dnsproject

# Create virtual environment (optional, but highly recommended)
python3 -m venv .venv
source .venv/bin/activate

# Install the dnscode package
pip install dnscode
```

1.4 Usage

Import the dnscode package into a python script, create a zone object, then add records into the zone. Records can be added either via helper functions in the `dnscode.Zone` class, or by manually creating record objects and adding them through `dnscode.Zone.add()`. Both methods are shown in the example below.

Once the zone is setup, you can save it as a text file using `dnscode.Zone.save_file()`. Currently, it also outputs to to STDOUT. See <https://code.minecraftchest1.us/minecraftchest1/dnscode/issues/5> for details.

API docs at https://dnscode.minecraftchest1.us/classdnscode_1_1dnscode_1_1Zone

```
import dnscode

zone = dnscode.Zone(origin='example.com')           # Create zone object
zone.new_SOA(mname='ns1.minecraftchest1.us.',       # Create SOA
             rname='admin.minecraftchest1.us.',
             refresh=onemonth, retry=oneday, ttl=oneday)
zone.new_A(name='myhost', ttl=3600, host='0.0.0.0') #New A record
zone.new_AAAA(name='myhost', ttl=3600, hosts='::1')
# More helper functions in the docs

cname = dnscode.CNAME(name='mycname', ttl=60, host='example.com')
# More record objects in the docs.
zone.add(cname)

zone.save_file('example.zone')
```

2 Namespace Index

2.1 Package List

Here are the packages with brief descriptions (if available):

`dnscode` 4

`dnscode.dnscode` 4

3 Hierarchical Index

3.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Exception

`dnscode.dnscode.InvalidDataException` 7

`dnscode.dnscode.Record` 10

`dnscode.dnscode.A` 4

`dnscode.dnscode.AAAA` 5

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dnscode.dnscode.SRV	13
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4 Class Index

4.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

dnscode.dnscode.A	4
dnscode.dnscode.AAAA	5
dnscode.dnscode.CNAME	6
dnscode.dnscode.InvalidDataException	7
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dnscode.dnscode.SOA	12
dnscode.dnscode.SRV	13
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dnscode.dnscode.Zone	16

5 File Index

5.1 File List

Here is a list of all files with brief descriptions:

src/dnscode/__init__.py	19
src/dnscode/dnscode.py	20

6 Namespace Documentation

6.1 dnscode Namespace Reference

Namespaces

- namespace [dnscode](#)

6.2 dnscode.dnscode Namespace Reference

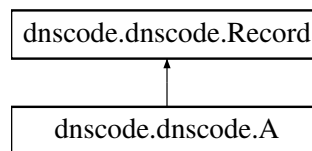
Classes

- class [A](#)
- class [AAAA](#)
- class [CNAME](#)
- class [InvalidDataException](#)
- class [MX](#)
- class [NS](#)
- class [PTR](#)
- class [Record](#)
- class [SOA](#)
- class [SRV](#)
- class [TXT](#)
- class [Zone](#)

7 Class Documentation

7.1 dnscode.dnscode.A Class Reference

Inheritance diagram for dnscode.dnscode.A:



Public Member Functions

- [__init__](#) (self, str [name](#)='@', int [ttl](#)=3600, str host='0.0.0.0')

Public Member Functions inherited from [dnscode.dnscode.Record](#)

- [__str__](#) (self)

Additional Inherited Members

Static Public Attributes inherited from [dnscode.dnscode.Record](#)

- str [rclass](#) = 'IN'
- str [rtype](#) = 'A'
- str [name](#) = '@'
- str [data](#) = '0.0.0.0'
- int [ttl](#) = 3600

7.1.1 Detailed Description

Represents an 'A' (IPv4 address) record.

7.1.2 Constructor & Destructor Documentation

`__init__()`

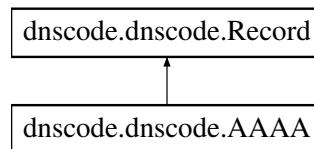
```
dnscode.dnscode.A.__init__ (
    self,
    str  name = '@',
    int  ttl = 3600,
    str  host = '0.0.0.0')
```

The documentation for this class was generated from the following file:

- src/dnscode/[dnscode.py](#)

7.2 dnscode.dnscode.AAAA Class Reference

Inheritance diagram for dnscode.dnscode.AAAA:



Public Member Functions

- `__init__` (self, str [name](#)='@', int [ttl](#)=3600, str host='0.0.0.0')

Public Member Functions inherited from [dnscode.dnscode.Record](#)

- `__str__` (self)

Additional Inherited Members

Static Public Attributes inherited from [dnscode.dnscode.Record](#)

- str [rclass](#) = 'IN'
- str [rtype](#) = 'A'
- str [name](#) = '@'
- str [data](#) = '0.0.0.0'
- int [ttl](#) = 3600

7.2.1 Detailed Description

Represents an 'AAAA' (IPv6 address) record.

7.2.2 Constructor & Destructor Documentation

`__init__()`

```
dnscode.dnscode.AAAA.__init__ (
    self,
    str  name = '@',
```

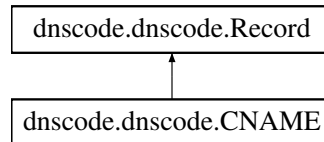
```
int    ttl = 3600,  
str    host = '0.0.0.0')
```

The documentation for this class was generated from the following file:

- [src/dnscode/dnscode.py](#)

7.3 dnscode.dnscode.CNAME Class Reference

Inheritance diagram for dnscode.dnscode.CNAME:



Public Member Functions

- `__init__` (self, str [name](#)='@', int [ttl](#)=3600, str [host](#)='example.com')

Public Member Functions inherited from [dnscode.dnscode.Record](#)

- `__str__` (self)

Additional Inherited Members

Static Public Attributes inherited from [dnscode.dnscode.Record](#)

- str [rclass](#) = 'IN'
- str [rtype](#) = 'A'
- str [name](#) = '@'
- str [data](#) = '0.0.0.0'
- int [ttl](#) = 3600

7.3.1 Detailed Description

Represents a 'CNAME' (Canonical Name) record.

7.3.2 Constructor & Destructor Documentation

`__init__()`

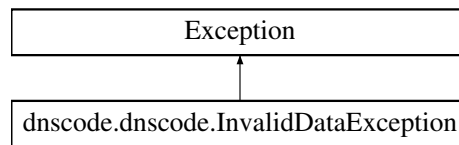
```
dnscode.dnscode.CNAME.__init__ (  
    self,  
    str    name = '@',  
    int    ttl = 3600,  
    str    host = 'example.com')
```

The documentation for this class was generated from the following file:

- [src/dnscode/dnscode.py](#)

7.4 dnscode.dnscode.InvalidDataException Class Reference

Inheritance diagram for dnscode.dnscode.InvalidDataException:



Public Member Functions

- `__init__` (self, [message](#))

Public Attributes

- [message](#) = message

7.4.1 Detailed Description

Exception raised when invalid data is passed to a record.

7.4.2 Constructor & Destructor Documentation

`__init__()`

```
dnscode.dnscode.InvalidDataException.__init__ (  
    self,  
    message)
```

7.4.3 Member Data Documentation

`message`

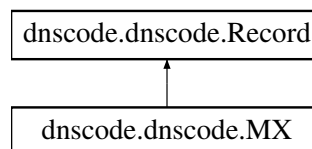
```
dnscode.dnscode.InvalidDataException.message = message
```

The documentation for this class was generated from the following file:

- `src/dnscode/dnscode.py`

7.5 dnscode.dnscode.MX Class Reference

Inheritance diagram for dnscode.dnscode.MX:



Public Member Functions

- `__init__` (self, str [name](#)='@', int [ttl](#)=3600, int [priority](#)=10, str [host](#)='example.com')

Public Member Functions inherited from [dnscode.dnscode.Record](#)

- `__str__` (self)

Public Attributes

- `priority` = priority
- `host` = host

Additional Inherited Members

Static Public Attributes inherited from `dnscode.dnscode.Record`

- `str rclass` = 'IN'
- `str rtype` = 'A'
- `str name` = '@'
- `str data` = '0.0.0.0'
- `int ttl` = 3600

7.5.1 Detailed Description

Represents an 'MX' (Mail Exchange) record.

7.5.2 Constructor & Destructor Documentation

`__init__()`

```
dnscode.dnscode.MX.__init__ (  
    self,  
    str  name = '@',  
    int  ttl = 3600,  
    int  priority = 10,  
    str  host = 'example.com')
```

7.5.3 Member Data Documentation

`host`

```
dnscode.dnscode.MX.host = host
```

`priority`

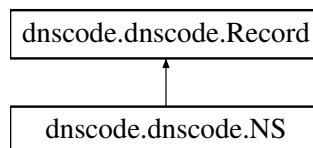
```
dnscode.dnscode.MX.priority = priority
```

The documentation for this class was generated from the following file:

- `src/dnscode/dnscode.py`

7.6 dnscode.dnscode.NS Class Reference

Inheritance diagram for `dnscode.dnscode.NS`:



Public Member Functions

- `__init__` (self, `str name`='@', `int ttl`=3600, `str host`='example.com')

Public Member Functions inherited from [dnscode.dnscode.Record](#)

- [__str__](#) (self)

Public Attributes

- [host](#) = host

Additional Inherited Members**Static Public Attributes inherited from [dnscode.dnscode.Record](#)**

- str [rclass](#) = 'IN'
- str [rtype](#) = 'A'
- str [name](#) = '@'
- str [data](#) = '0.0.0.0'
- int [ttl](#) = 3600

7.6.1 Detailed Description

Represents an 'NS' (Name Server) record.

7.6.2 Constructor & Destructor Documentation**[__init__\(\)](#)**

```
dnscode.dnscode.NS.__init__ (
    self,
    str  name = '@',
    int  ttl = 3600,
    str  host = 'example.com')
```

7.6.3 Member Data Documentation**host**

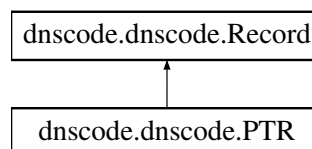
```
dnscode.dnscode.NS.host = host
```

The documentation for this class was generated from the following file:

- src/dnscode/[dnscode.py](#)

7.7 dnscode.dnscode.PTR Class Reference

Inheritance diagram for dnscode.dnscode.PTR:

**Public Member Functions**

- [__init__](#) (self, str [name](#)='@', int [ttl](#)=3600, str host='example.com')

Public Member Functions inherited from [dnscode.dnscode.Record](#)

- [__str__](#) (self)

Additional Inherited Members**Static Public Attributes inherited from [dnscode.dnscode.Record](#)**

- str [rclass](#) = 'IN'
- str [rtype](#) = 'A'
- str [name](#) = '@'
- str [data](#) = '0.0.0.0'
- int [ttl](#) = 3600

7.7.1 Detailed Description

Represents a 'PTR' (Pointer) record.

7.7.2 Constructor & Destructor Documentation**[__init__\(\)](#)**

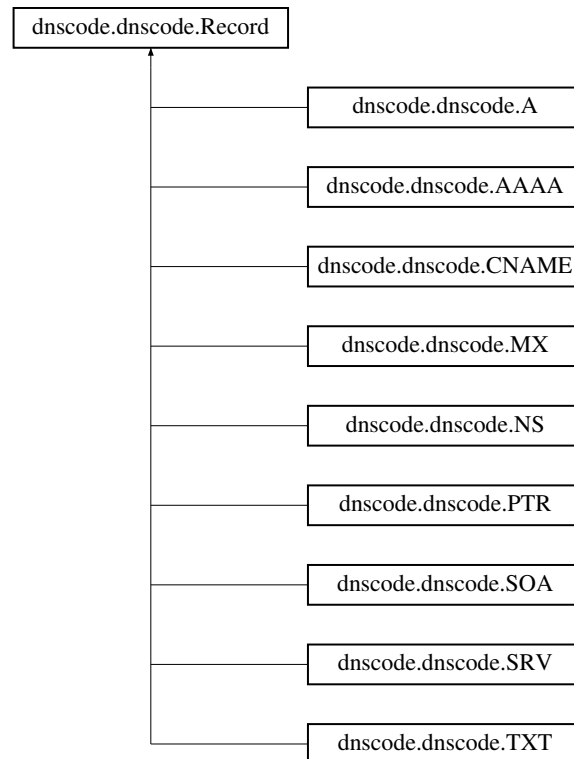
```
dnscode.dnscode.PTR.__init__ (  
    self,  
    str  name = '@',  
    int  ttl = 3600,  
    str  host = 'example.com')
```

The documentation for this class was generated from the following file:

- [src/dnscode/dnscode.py](#)

7.8 dnscode.dnscode.Record Class Reference

Inheritance diagram for dnscode.dnscode.Record:



Public Member Functions

- `__str__` (self)

Static Public Attributes

- str `rclass` = 'IN'
- str `rtype` = 'A'
- str `name` = '@'
- str `data` = '0.0.0.0'
- int `ttl` = 3600

7.8.1 Detailed Description

Base class for DNS records.

7.8.2 Member Function Documentation

`__str__()`

```
dnscode.dnscode.Record.__str__ (  
    self)
```

Returns a string representation of the record.

7.8.3 Member Data Documentation

`data`

```
str dnscode.dnscode.Record.data = '0.0.0.0' [static]
```

name

```
str dnscode.dnscode.Record.name = '@' [static]
```

rclass

```
str dnscode.dnscode.Record.rclass = 'IN' [static]
```

rtype

```
str dnscode.dnscode.Record.rtype = 'A' [static]
```

ttl

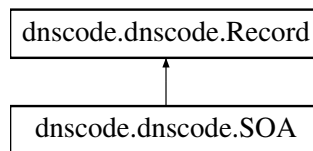
```
int dnscode.dnscode.Record.ttl = 3600 [static]
```

The documentation for this class was generated from the following file:

- src/dnscode/[dnscode.py](#)

7.9 dnscode.dnscode.SOA Class Reference

Inheritance diagram for dnscode.dnscode.SOA:

**Public Member Functions**

- `__init__` (self, str `name`='@', str `mname`='ns1.example.com', str `rname`='admin.example.com', int `serial`=int(time.time()), int `refresh`=86400, int `retry`=7200, int `expire`=15552000, int `ttl`=21700)

Public Member Functions inherited from [dnscode.dnscode.Record](#)

- `__str__` (self)

Public Attributes

- `mname` = mname
- `rname` = rname
- `serial` = serial
- `refresh` = refresh
- `retry` = retry
- `expire` = expire

Additional Inherited Members**Static Public Attributes inherited from [dnscode.dnscode.Record](#)**

- str `rclass` = 'IN'
- str `rtype` = 'A'
- str `name` = '@'
- str `data` = '0.0.0.0'
- int `ttl` = 3600

7.9.1 Detailed Description

Represents an 'SOA' (Start of Authority) record.

7.9.2 Constructor & Destructor Documentation

`__init__()`

```
dnscode.dnscode.SOA.__init__ (
    self,
    str  name = '@',
    str  mname = 'ns1.example.com',
    str  rname = 'admin.example.com',
    int  serial = int(time.time()),
    int  refresh = 86400,
    int  retry = 7200,
    int  expire = 15552000,
    int  ttl = 21700)
```

7.9.3 Member Data Documentation

expire

```
dnscode.dnscode.SOA.expire = expire
```

mname

```
dnscode.dnscode.SOA.mname = mname
```

refresh

```
dnscode.dnscode.SOA.refresh = refresh
```

retry

```
dnscode.dnscode.SOA.retry = retry
```

rname

```
dnscode.dnscode.SOA.rname = rname
```

serial

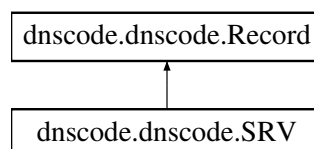
```
dnscode.dnscode.SOA.serial = serial
```

The documentation for this class was generated from the following file:

- src/dnscode/[dnscode.py](#)

7.10 dnscode.dnscode.SRV Class Reference

Inheritance diagram for dnscode.dnscode.SRV:



Public Member Functions

- `__init__` (self, str `name`='@', int `ttl`=3600, str `service`="service", str `protocol`='proto', int `priority`=10, int `weight`=10, int `port`=0, str `host`='example.com')

Public Member Functions inherited from `dnscode.dnscode.Record`

- `__str__` (self)

Public Attributes

- `service` = service
- `protocol` = protocol
- `priority` = priority
- `weight` = weight
- `port` = port
- `host` = host

Additional Inherited Members

Static Public Attributes inherited from `dnscode.dnscode.Record`

- str `rclass` = 'IN'
- str `rtype` = 'A'
- str `name` = '@'
- str `data` = '0.0.0.0'
- int `ttl` = 3600

7.10.1 Detailed Description

Represents an 'SRV' (Service) record.

7.10.2 Constructor & Destructor Documentation

`__init__()`

```
dnscode.dnscode.SRV.__init__ (  
    self,  
    str  name = '@',  
    int  ttl = 3600,  
    str  service = "service",  
    str  protocol = 'proto',  
    int  priority = 10,  
    int  weight = 10,  
    int  port = 0,  
    str  host = 'example.com')
```

7.10.3 Member Data Documentation

host

```
dnscode.dnscode.SRV.host = host
```

port

```
dnscode.dnscode.SRV.port = port
```


priority

```
dnscode.dnscode.SRV.priority = priority
```

protocol

```
dnscode.dnscode.SRV.protocol = protocol
```

service

```
dnscode.dnscode.SRV.service = service
```

weight

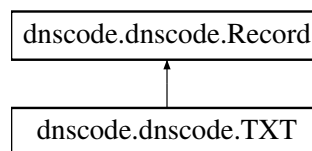
```
dnscode.dnscode.SRV.weight = weight
```

The documentation for this class was generated from the following file:

- src/dnscode/[dnscode.py](#)

7.11 dnscode.dnscode.TXT Class Reference

Inheritance diagram for dnscode.dnscode.TXT:

**Public Member Functions**

- [__init__](#) (self, str [name](#)='@', int [ttl](#)=3600, str text='example.com')

Public Member Functions inherited from [dnscode.dnscode.Record](#)

- [__str__](#) (self)

Additional Inherited Members**Static Public Attributes inherited from [dnscode.dnscode.Record](#)**

- str [rclass](#) = 'IN'
- str [rtype](#) = 'A'
- str [name](#) = '@'
- str [data](#) = '0.0.0.0'
- int [ttl](#) = 3600

7.11.1 Detailed Description

Represents a 'CNAME' (Canonical Name) record.

7.11.2 Constructor & Destructor Documentation

`__init__()`

```

dnscode.dnscode.TXT.__init__ (
    self,
    str  name = '@',
    int  ttl = 3600,
    str  text = 'example.com')

```

The documentation for this class was generated from the following file:

- `src/dnscode/dnscode.py`

7.12 dnscode.dnscode.Zone Class Reference

Public Member Functions

- `__post_init__` (self)
- `__str__` (self)
- `new_A` (self, str name='@', int ttl=3600, str host='0.0.0.0')
- `new_AAAA` (self, str name='@', int ttl=3600, str host='fe80::42:2cff:fe29:8db1')
- `new_CNAME` (self, str name='@', int ttl=3600, str host='example.com')
- `new_MX` (self, str name='@', int ttl=3600, int priority=10, str host='example.com')
- `new_NS` (self, str name='@', int ttl=3600, str host='example.com')
- `new_PTR` (self, str name='@', int ttl=3600, str host='example.com')
- `new_SOA` (self, str mname='ns1.example.com', str rname='admin.example.com', int serial=int(time.time()), int refresh=86400, int retry=7200, int expire=15552000, int ttl=21700)
- `new_SRV` (self, str name='@', int ttl=3600, str service='service', str protocol='proto', int priority=10, int weight=10, int port=443, str host='example.com')
- `new_TXT` (self, str name='@', int ttl=3600, str text='example.com')
- `new_record` (self, str name='@', int ttl=3600, str rtype='A', str data='0.0.0.0')
- `add` (self, `Record` record)
- `save_stdout` (self)
- `save_file` (self, str filepath)

Static Public Attributes

- str `origin` = 'example.com'
- list `records` = field(default_factory=list)

7.12.1 Detailed Description

Represents a DNS zone containing multiple records.

7.12.2 Member Function Documentation

`__post_init__()`

```

dnscode.dnscode.Zone.__post_init__ (
    self)

```

Initializes a zone with the given origin and ensures it ends with a dot.

__str__()

```
dnscode.dnscode.Zone.__str__ (  
    self)
```

Returns a string representation of the zone.

add()

```
dnscode.dnscode.Zone.add (  
    self,  
    Record record)
```

Adds a record to the zone.

new_A()

```
dnscode.dnscode.Zone.new_A (  
    self,  
    str name = '@',  
    int ttl = 3600,  
    str host = '0.0.0.0')
```

Creates and adds a new A record to the zone.

new_AAAA()

```
dnscode.dnscode.Zone.new_AAAA (  
    self,  
    str name = '@',  
    int ttl = 3600,  
    str host = 'fe80::42:2cff:fe29:8db1')
```

Creates and adds a new AAAA record to the zone.

new_CNAME()

```
dnscode.dnscode.Zone.new_CNAME (  
    self,  
    str name = '@',  
    int ttl = 3600,  
    str host = 'example.com')
```

Creates and adds a new CNAME record to the zone.

new_MX()

```
dnscode.dnscode.Zone.new_MX (  
    self,  
    str name = '@',  
    int ttl = 3600,  
    int priority = 10,  
    str host = 'example.com')
```

Creates and adds a new MX record to the zone.

new_NS()

```
dnscode.dnscode.Zone.new_NS (  
    self,  
    str  name = '@',  
    int  ttl = 3600,  
    str  host = 'example.com')
```

Creates and adds a new NS record to the zone.

new_PTR()

```
dnscode.dnscode.Zone.new_PTR (  
    self,  
    str  name = '@',  
    int  ttl = 3600,  
    str  host = 'example.com')
```

Creates and adds a new PTR record to the zone.

new_record()

```
dnscode.dnscode.Zone.new_record (  
    self,  
    str  name = '@',  
    int  ttl = 3600,  
    str  rtype = 'A',  
    str  data = '0.0.0.0')
```

Creates and adds a generic DNS record to the zone.

new_SOA()

```
dnscode.dnscode.Zone.new_SOA (  
    self,  
    str  mname = 'ns1.example.com',  
    str  rname = 'admin.example.com',  
    int  serial = int(time.time()),  
    int  refresh = 86400,  
    int  retry = 7200,  
    int  expire = 15552000,  
    int  ttl = 21700)
```

Creates and adds a new SOA record to the zone.

new_SRV()

```
dnscode.dnscode.Zone.new_SRV (  
    self,  
    str  name = '@',  
    int  ttl = 3600,  
    str  service = 'service',  
    str  protocol = 'proto',  
    int  priority = 10,
```

```
int    weight = 10,  
int    port = 443,  
str    host = 'example.com')
```

Creates and adds a new SRV record to the zone.

new_TXT()

```
dnscode.dnscode.Zone.new_TXT (  
    self,  
    str    name = '@',  
    int    ttl = 3600,  
    str    text = 'example.com')
```

Creates and adds a new CNAME record to the zone.

save_file()

```
dnscode.dnscode.Zone.save_file (  
    self,  
    str filepath)
```

Saves the zone records to a file.

save_stdout()

```
dnscode.dnscode.Zone.save_stdout (  
    self)
```

7.12.3 Member Data Documentation

origin

```
str dnscode.dnscode.Zone.origin = 'example.com' [static]
```

records

```
list dnscode.dnscode.Zone.records = field(default_factory=list) [static]
```

The documentation for this class was generated from the following file:

- src/dnscode/[dnscode.py](#)

8 File Documentation

8.1 README.md File Reference

8.2 src/dnscode/__init__.py File Reference

Namespaces

- namespace [dnscode](#)

8.3 src/dnscode/dnscode.py File Reference

Classes

- class [dnscode.dnscode.InvalidDataException](#)
- class [dnscode.dnscode.Record](#)
- class [dnscode.dnscode.A](#)
- class [dnscode.dnscode.AAAA](#)
- class [dnscode.dnscode.CNAME](#)
- class [dnscode.dnscode.MX](#)
- class [dnscode.dnscode.NS](#)
- class [dnscode.dnscode.PTR](#)
- class [dnscode.dnscode.SOA](#)
- class [dnscode.dnscode.SRV](#)
- class [dnscode.dnscode.TXT](#)
- class [dnscode.dnscode.Zone](#)

Namespaces

- namespace [dnscode](#)
- namespace [dnscode.dnscode](#)

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