
django-dnsmanager

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This is a DNS manager Django app.

CHAPTER 1

Installation

The following lines creates a Python3 virtualenv and installs `django-dnsmanager` inside.

```
$ python3 -m venv venv
$ source venv/bin/activate
$ pip install django-dnsmanager
```


CHAPTER 2

Features

- Polymorphic models based on [Django Polymorphic](#) ;
- Integration with Django Contrib Admin and AdminDocs ;
- Integration with Django Rest Framework ;
- Generation of ready to use zone files.

This app targets Django 2.2 (last LTS and current Debian version (from Debian 11 Bullseye)) and 3.1. It runs on Python 3.6 to 3.9.

CHAPTER 3

Running a demo project

We assume this package is installed in your Python 3 environment.

Clone the project and go to `example` directory.

Now we need to create the database tables and an admin user. Run the following and follow the instructions:

```
$ ./manage.py migrate  
$ ./manage.py createsuperuser
```

Now you may run the Django development server:

```
$ ./manage.py runserver
```

You should then be able to open your browser on <http://127.0.0.1:8000> and see this app running.

CHAPTER 4

License

Django-dnsmanager uses the same license as Django (BSD-like) because we believe in open development. Please see LICENSE file for more details.

4.1 Models

```
dnsmanager.models.A
    alias of dnsmanager.models.AddressRecord

dnsmanager.models.AAAA
    alias of dnsmanager.models.Ipv6AddressRecord

class dnsmanager.models.AddressRecord(*args, **kwargs)
    Bases: dnsmanager.models.Record

A Ipv4 Address record (abbreviated A) maps a hostname to a IPv4 address.

This format is defined in RFC 1035.

Parameters

- id (AutoField) – Id
- polymorphic_ctype (ForeignKey to ContentType) – Polymorphic ctype
- zone (ForeignKey to Zone) – Zone. This record will be applied on that zone.
- name (CharField) – Name. The domain name for which this record is valid, ending in a dot.
- dns_class (CharField) – Class. You shouldn't need anything else than IN.
- ttl (PositiveIntegerField) – Time to live. Limits the lifetime of this record.
- record_ptr (OneToOneField to Record) – Record ptr
- address (GenericIPAddressField) – Ipv4 address

```

```
exception DoesNotExist
Bases: dnsmanager.models.DoesNotExist

exception MultipleObjectsReturned
Bases: dnsmanager.models.MultipleObjectsReturned

address
    Model field: IPv4 address

record_ptr
    Model field: record ptr, accesses the Record model.

record_ptr_id
    Model field: record ptr

dnsmanager.models.CAA
alias of dnsmanager.models.CertificationAuthorityAuthorizationRecord

dnsmanager.models.CNAME
alias of dnsmanager.models.CanonicalNameRecord

class dnsmanager.models.CanonicalNameRecord(*args, **kwargs)
Bases: dnsmanager.models.Record

A Canonical name record (abbreviated CNAME) aliases one name to another.

This format is defined in RFC 1035. Please read <https://en.wikipedia.org/wiki/CNAME\_record> for more details.

Parameters

- id (AutoField) – Id
- polymorphic_ctype (ForeignKey to ContentType) – Polymorphic ctype
- zone (ForeignKey to Zone) – Zone. This record will be applied on that zone.
- name (CharField) – Name. The domain name for which this record is valid, ending in a dot.
- dns_class (CharField) – Class. You shouldn't need anything else than IN.
- ttl (PositiveIntegerField) – Time to live. Limits the lifetime of this record.
- record_ptr (OneToOneField to Record) – Record ptr
- c_name (CharField) – Canonical name. This domain name will alias to this canonical name.



exception DoesNotExist
Bases: dnsmanager.models.DoesNotExist

exception MultipleObjectsReturned
Bases: dnsmanager.models.MultipleObjectsReturned

c_name
    Model field: canonical name

record_ptr
    Model field: record ptr, accesses the Record model.

record_ptr_id
    Model field: record ptr
```

```

class dnsmanager.models.CertificationAuthorityAuthorizationRecord(*args,
                                                               **kwargs)
Bases: dnsmanager.models.Record

A Certification Authority Authorization record (abbreviated CAA) constraints acceptable CAs for a host or domain.

This format is defined in RFC 6844.

Parameters

- id (AutoField) – Id
- polymorphic_ctype (ForeignKey to ContentType) – Polymorphic ctype
- zone (ForeignKey to Zone) – Zone. This record will be applied on that zone.
- name (CharField) – Name. The domain name for which this record is valid, ending in a dot.
- dns_class (CharField) – Class. You shouldn't need anything else than IN.
- ttl (PositiveIntegerField) – Time to live. Limits the lifetime of this record.
- record_ptr (OneToOneField to Record) – Record ptr
- flags (PositiveIntegerField) – Flags
- tag (CharField) – Tag
- value (CharField) – Value

exception DoesNotExist
Bases: dnsmanager.models.DoesNotExist

exception MultipleObjectsReturned
Bases: dnsmanager.models.MultipleObjectsReturned

TAGS = [('issue', 'issue'), ('issuemwild', 'issue wildcard'), ('iodef', 'Incident object'),
        flags
Model field: flags
get_tag_display(*,field=<django.db.models.fields.CharField: tag>)
Autogenerated: Shows the label of the tag

record_ptr
Model field: record ptr, accesses the Record model.

record_ptr_id
Model field: record ptr

tag
Model field: tag

value
Model field: value

dnsmanager.models.DNAME
alias of dnsmanager.models.DelegationNameRecord

class dnsmanager.models.DelegationNameRecord(*args, **kwargs)
Bases: dnsmanager.models.Record

A Delegation name record (abbreviated DNAME), aliases a domain to the entire subtree of another domain.

```

This format is defined in RFC 6672. Please read <https://en.wikipedia.org/wiki/CNAME_record#DNS_RECORD> for more details.

Parameters

- **id** (*AutoField*) – Id
- **polymorphic_ctype** (*ForeignKey* to *ContentType*) – Polymorphic ctype
- **zone** (*ForeignKey* to [Zone](#)) – Zone. This record will be applied on that zone.
- **name** (*CharField*) – Name. The domain name for which this record is valid, ending in a dot.
- **dns_class** (*CharField*) – Class. You shouldn't need anything else than IN.
- **ttl** (*PositiveIntegerField*) – Time to live. Limits the lifetime of this record.
- **record_ptr** (*OneToOneField* to [Record](#)) – Record ptr
- **d_name** (*CharField*) – Delegation domain name. This domain name will alias to the entire subtree of that delegation domain.

exception DoesNotExist

Bases: `dnsmanager.models.DoesNotExist`

exception MultipleObjectsReturned

Bases: `dnsmanager.models.MultipleObjectsReturned`

d_name

Model field: delegation domain name

record_ptr

Model field: record ptr, accesses the [Record](#) model.

record_ptr_id

Model field: record ptr

class dnsmanager.models.Ipv6AddressRecord(*args, **kwargs)

Bases: `dnsmanager.models.Record`

A Ipv6 Address record, or quad-A (abbreviated AAAA), maps a hostname to a IPv6 address.

This format is defined in RFC 3596. Please read <https://en.wikipedia.org/wiki/IPv6_address#Domain_Name_System> for more details.

Parameters

- **id** (*AutoField*) – Id
- **polymorphic_ctype** (*ForeignKey* to *ContentType*) – Polymorphic ctype
- **zone** (*ForeignKey* to [Zone](#)) – Zone. This record will be applied on that zone.
- **name** (*CharField*) – Name. The domain name for which this record is valid, ending in a dot.
- **dns_class** (*CharField*) – Class. You shouldn't need anything else than IN.
- **ttl** (*PositiveIntegerField*) – Time to live. Limits the lifetime of this record.
- **record_ptr** (*OneToOneField* to [Record](#)) – Record ptr
- **address** (*GenericIPAddressField*) – Ipv6 address

exception DoesNotExist

Bases: `dnsmanager.models.DoesNotExist`

```

exception MultipleObjectsReturned
    Bases: dnsmanager.models.MultipleObjectsReturned

address
    Model field: IPv6 address

record_ptr
    Model field: record ptr, accesses the Record model.

record_ptr_id
    Model field: record ptr

dnsmanager.models.MX
    alias of dnsmanager.models.MailExchangeRecord

class dnsmanager.models.MailExchangeRecord(*args, **kwargs)
    Bases: dnsmanager.models.Record

A Mail Exchange record (abbreviated MX) maps a domain name to a list of message transfer agents for that domain.

This format is defined in RFC 1035 and 7505.

Parameters

- id (AutoField) – Id
- polymorphic_ctype (ForeignKey to ContentType) – Polymorphic ctype
- zone (ForeignKey to Zone) – Zone. This record will be applied on that zone.
- name (CharField) – Name. The domain name for which this record is valid, ending in a dot.
- dns_class (CharField) – Class. You shouldn't need anything else than IN.
- ttl (PositiveIntegerField) – Time to live. Limits the lifetime of this record.
- record_ptr (OneToOneField to Record) – Record ptr
- preference (PositiveIntegerField) – Preference
- exchange (CharField) – Exchange server

exception DoesNotExist
    Bases: dnsmanager.models.DoesNotExist

exception MultipleObjectsReturned
    Bases: dnsmanager.models.MultipleObjectsReturned

exchange
    Model field: exchange server

preference
    Model field: preference

record_ptr
    Model field: record ptr, accesses the Record model.

record_ptr_id
    Model field: record ptr

dnsmanager.models.NS
    alias of dnsmanager.models.NameServerRecord

```

```
class dnsmanager.models.NameServerRecord(*args, **kwargs)
```

Bases: `dnsmanager.models.Record`

A Name Server record (abbreviated NS) delegates a DNS zone to use the given authoritative name servers.

This format is defined in RFC 1035.

Parameters

- **id** (`AutoField`) – Id
- **polymorphic_ctype** (`ForeignKey` to `ContentType`) – Polymorphic ctype
- **zone** (`ForeignKey` to `Zone`) – Zone. This record will be applied on that zone.
- **name** (`CharField`) – Name. The domain name for which this record is valid, ending in a dot.
- **dns_class** (`CharField`) – Class. You shouldn't need anything else than IN.
- **ttl** (`PositiveIntegerField`) – Time to live. Limits the lifetime of this record.
- **record_ptr** (`OneToOneField` to `Record`) – Record ptr
- **nsdname** (`CharField`) – Name server

```
exception DoesNotExist
```

Bases: `dnsmanager.models.DoesNotExist`

```
exception MultipleObjectsReturned
```

Bases: `dnsmanager.models.MultipleObjectsReturned`

nsdname

Model field: name server

record_ptr

Model field: record ptr, accesses the `Record` model.

record_ptr_id

Model field: record ptr

```
dnsmanager.models.PTR
```

alias of `dnsmanager.models.PointerRecord`

```
class dnsmanager.models.PointerRecord(*args, **kwargs)
```

Bases: `dnsmanager.models.Record`

A Pointer Resource record (abbreviated PTR) points a name to a canonical name.

Unlike a CNAME, DNS processing stops and just the name is returned. It is useful for implementing reverse DNS lookups.

This format is defined in RFC 1035.

Parameters

- **id** (`AutoField`) – Id
- **polymorphic_ctype** (`ForeignKey` to `ContentType`) – Polymorphic ctype
- **zone** (`ForeignKey` to `Zone`) – Zone. This record will be applied on that zone.
- **name** (`CharField`) – Name. The domain name for which this record is valid, ending in a dot.
- **dns_class** (`CharField`) – Class. You shouldn't need anything else than IN.
- **ttl** (`PositiveIntegerField`) – Time to live. Limits the lifetime of this record.

- **record_ptr** (OneToOneField to *Record*) – Record ptr
 - **ptrdname** (*CharField*) – Pointer domain name

exception DoesNotExist

Bases: dnsmanager.models.DoesNotExist

exception MultipleObjectsReturned

Bases: dnsmanager.models.MultipleObjectsReturned

ptrdname

Model field: pointer domain name

record_ptr

Model field: record ptr, accesses the *Record* model.

record ptr id

Model field: record ptr

```
class dnsmanager.models.Record(*args, **kwargs)
    Bases: polymorphic.models.PolymorphicModel
```

A generic DNS record of a zone.

This object should never be created directly as it is a polymorphic parent to all record types, but records can be retrieved by requesting this object.

As Django DNSManager uses Django Polymorphic, a request of a record object will not return a record object but the polymorphic child which contains additional fields.

Parameters

- **id** (*AutoField*) – Id
 - **polymorphic_ctype** (*ForeignKey* to *ContentType*) – Polymorphic ctype
 - **zone** (*ForeignKey* to *Zone*) – Zone. This record will be applied on that zone.
 - **name** (*CharField*) – Name. The domain name for which this record is valid, ending in a dot.
 - **dns_class** (*CharField*) – Class. You shouldn't need anything else than IN.
 - **ttl** (*PositiveIntegerField*) – Time to live. Limits the lifetime of this record.

```
DNS_CLASSES = [('IN', 'IN (Internet)'), ('CS', 'CS (CSNET, obsolete)'), ('CH', 'CH (CH)')]
```

exception DoesNotExist

Bases: django.core.exceptions.ObjectDoesNotExist

`exception MultipleObjectsReturned`

Bases: django.core.exceptions.MultipleObjectsReturned

addressrecord

Model field: record ptr. accesses the *AddressRecord* model.

canonicalnamerecord

Model field: record ptr accesses the *CanonicalNameRecord* model

certification authority authorization record

Model field: record ptr accesses the `CertificationAuthorityAuthorizationRecord` model

delegationname record

Model field: record ptr accesses the *DelegationNameRecord* model

dns_class
Model field: class

get_dns_class_display (*, *field=<django.db.models.fields.CharField: dns_class>*)
Autogenerated: Shows the label of the `dns_class`

id
Model field: ID

ipv6addressrecord
Model field: record ptr, accesses the `Ipv6AddressRecord` model.

mailexchangerecord
Model field: record ptr, accesses the `MailExchangeRecord` model.

name
Model field: name

nameserverrecord
Model field: record ptr, accesses the `NameServerRecord` model.

pointerrecord
Model field: record ptr, accesses the `PointerRecord` model.

polymorphic_ctype
Model field: polymorphic ctype, accesses the `ContentType` model.

save (**args*, ***kwargs*)
Clean model on save

Without that the model does not get validated

servicerecord
Model field: record ptr, accesses the `ServiceRecord` model.

sshfingerprintrecord
Model field: record ptr, accesses the `SshFingerprintRecord` model.

startofauthorityrecord
Model field: record ptr, accesses the `StartOfAuthorityRecord` model.

textrecord
Model field: record ptr, accesses the `TextRecord` model.

ttl
Model field: Time To Live

zone
Model field: zone, accesses the `Zone` model.

zone_id
Model field: zone

`dnsmanager.models.SOA`
alias of `dnsmanager.models.StartOfAuthorityRecord`

`dnsmanager.models.SRV`
alias of `dnsmanager.models.ServiceRecord`

`dnsmanager.models.SSHFP`
alias of `dnsmanager.models.SshFingerprintRecord`

class `dnsmanager.models.ServiceRecord(*args, **kwargs)`
Bases: `dnsmanager.models.Record`

A Service record (abbreviated SRV) indicates the presence of a service.

It is a generalized service record instead of protocol-specific records such as MX.

This format is defined in RFC 2782. Please read <https://en.wikipedia.org/wiki/SRV_record> for more details.

Parameters

- **id** (*AutoField*) – Id
- **polymorphic_ctype** (*ForeignKey* to *ContentType*) – Polymorphic ctype
- **zone** (*ForeignKey* to *Zone*) – Zone. This record will be applied on that zone.
- **name** (*CharField*) – Name. The domain name for which this record is valid, ending in a dot.
- **dns_class** (*CharField*) – Class. You shouldn't need anything else than IN.
- **ttl** (*PositiveIntegerField*) – Time to live. Limits the lifetime of this record.
- **record_ptr** (*OneToOneField* to *Record*) – Record ptr
- **service** (*CharField*) – Service. The symbolic name of the desired service.
- **protocol** (*CharField*) – Protocol. The transport protocol of the desired service, usually either TCP or UDP.
- **priority** (*PositiveIntegerField*) – Priority. The priority of the target host, lower value means more preferred.
- **weight** (*PositiveIntegerField*) – Weight. A relative weight for records with the same priority, higher value means higher chance of getting picked.
- **port** (*PositiveIntegerField*) – Port
- **target** (*CharField*) – Target. The canonical hostname of the machine providing the service, ending in a dot.

exception DoesNotExist

Bases: `dnsmanager.models.DoesNotExist`

exception MultipleObjectsReturned

Bases: `dnsmanager.models.MultipleObjectsReturned`

port

Model field: port

priority

Model field: priority

protocol

Model field: protocol

record_ptr

Model field: record ptr, accesses the *Record* model.

record_ptr_id

Model field: record ptr

service

Model field: service

target

Model field: target

weight

Model field: weight

```
class dnsmanager.models.SshFingerprintRecord(*args, **kwargs)
```

Bases: *dnsmanager.models.Record*

A SSH Fingerprint record (abbreviated SSHFP) indicates the SSH public host key fingerprint of a host.

This format is defined in RFC 4255 and 6594.

Parameters

- **id** (*AutoField*) – Id
- **polymorphic_ctype** (*ForeignKey* to *ContentType*) – Polymorphic ctype
- **zone** (*ForeignKey* to *Zone*) – Zone. This record will be applied on that zone.
- **name** (*CharField*) – Name. The domain name for which this record is valid, ending in a dot.
- **dns_class** (*CharField*) – Class. You shouldn't need anything else than IN.
- **ttl** (*PositiveIntegerField*) – Time to live. Limits the lifetime of this record.
- **record_ptr** (*OneToOneField* to *Record*) – Record ptr
- **algorithm** (*PositiveIntegerField*) – Algorithm
- **type** (*PositiveIntegerField*) – Type
- **fingerprint** (*CharField*) – Fingerprint

```
ALGORITHMS = [(1, 'RSA'), (2, 'DSA'), (3, 'ECDSA'), (4, 'Ed25519')]
```

exception DoesNotExist

Bases: *dnsmanager.models.DoesNotExist*

exception MultipleObjectsReturned

Bases: *dnsmanager.models.MultipleObjectsReturned*

```
TYPES = [(1, 'SHA-1'), (2, 'SHA-256')]
```

algorithm

Model field: algorithm

fingerprint

Model field: fingerprint

```
get_algorithm_display(*, field=<django.db.models.fields.PositiveIntegerField: algorithm>)
```

Autogenerated: Shows the label of the *algorithm*

```
get_type_display(*, field=<django.db.models.fields.PositiveIntegerField: type>)
```

Autogenerated: Shows the label of the *type*

record_ptr

Model field: record_ptr, accesses the *Record* model.

record_ptr_id

Model field: record_ptr

type

Model field: type

```
class dnsmanager.models.StartOfAuthorityRecord(*args, **kwargs)
```

Bases: *dnsmanager.models.Record*

A Start Of Authority record (abbreviated SOA) contains administrative information about the zone. Every zone must have a SOA record to conform to the standard. This format is defined in RFC 1035. Please read <https://en.wikipedia.org/wiki/SOA_record> for more details.

Parameters

- **id** (*AutoField*) – Id
- **polymorphic_ctype** (*ForeignKey* to *ContentType*) – Polymorphic ctype
- **zone** (*ForeignKey* to *Zone*) – Zone. This record will be applied on that zone.
- **name** (*CharField*) – Name. The domain name for which this record is valid, ending in a dot.
- **dns_class** (*CharField*) – Class. You shouldn't need anything else than IN.
- **ttl** (*PositiveIntegerField*) – Time to live. Limits the lifetime of this record.
- **record_ptr** (*OneToOneField* to *Record*) – Record ptr
- **mname** (*CharField*) – Master name server. Primary master name server for this zone.
- **rname** (*EmailField*) – Responsible email. Email address of the administrator responsible for this zone.
- **serial** (*BigIntegerField*) – Serial number. A slave name server will initiate a zone transfer if this serial is incremented.
- **refresh** (*BigIntegerField*) – Refresh. Number of seconds after which secondary name servers should query the master to detect zone changes.
- **retry** (*BigIntegerField*) – Retry. Number of seconds after which secondary name servers should retry to request the serial number from the master if the master does not respond.
- **expire** (*BigIntegerField*) – Expire. Number of seconds after which secondary name servers should stop answering request for this zone if the master does not respond.
- **minimum** (*BigIntegerField*) – Minimum. Time to live for purposes of negative caching.

exception DoesNotExist

Bases: `dnsmanager.models.DoesNotExist`

exception MultipleObjectsReturned

Bases: `dnsmanager.models.MultipleObjectsReturned`

clean()

Hook for doing any extra model-wide validation after `clean()` has been called on every field by `self.clean_fields`. Any `ValidationError` raised by this method will not be associated with a particular field; it will have a special-case association with the field defined by `NON_FIELD_ERRORS`.

email_to_rname()

Convert email format to domain name format e.g. `root@example.org` to `root.example.org`

expire

Model field: expire

minimum

Model field: minimum

mname

Model field: master name server

record_ptr

Model field: record ptr, accesses the [Record](#) model.

record_ptr_id

Model field: record ptr

refresh

Model field: refresh

retry

Model field: retry

rname

Model field: responsible email

serial

Model field: serial number

dnsmanager.models.TXT

alias of [dnsmanager.models.TextRecord](#)

class dnsmanager.models.TextRecord(*args, **kwargs)

Bases: [dnsmanager.models.Record](#)

A Text record (abbreviated TXT) indicates arbitrary human-readable text.

This format is defined in RFC 1035 and 1464.

Parameters

- **id** (*AutoField*) – Id
- **polymorphic_ctype** (*ForeignKey* to *ContentType*) – Polymorphic ctype
- **zone** (*ForeignKey* to [Zone](#)) – Zone. This record will be applied on that zone.
- **name** (*CharField*) – Name. The domain name for which this record is valid, ending in a dot.
- **dns_class** (*CharField*) – Class. You shouldn't need anything else than IN.
- **ttl** (*PositiveIntegerField*) – Time to live. Limits the lifetime of this record.
- **record_ptr** (*OneToOneField* to [Record](#)) – Record ptr
- **data** (*TextField*) – Data

exception DoesNotExist

Bases: [dnsmanager.models.DoesNotExist](#)

exception MultipleObjectsReturned

Bases: [dnsmanager.models.MultipleObjectsReturned](#)

data

Model field: data

record_ptr

Model field: record ptr, accesses the [Record](#) model.

record_ptr_id

Model field: record ptr

class dnsmanager.models.Zone(*args, **kwargs)

Bases: [django.db.models.base.Model](#)

A DNS Zone of a domain name contains all its records.

A DNS zone is represented by a zone text file that starts with the special DNS record type Start of Authority (SOA) and contains all records for the resources described within the zone.

This format is defined in RFC 1034 and RFC 1035. Please read <https://en.wikipedia.org/wiki/DNS_zone> for more details.

In Django DNSManager, zone text file can be generated by going to </dns/*slug*/>, “*slug*” being the value of the *slug* field in this object.

Parameters

- **id** (*AutoField*) – Id
- **name** (*CharField*) – Name
- **slug** (*SlugField*) – Slug. This zone will be accessible at /dns/{slug}/.

exception DoesNotExist

Bases: django.core.exceptions.ObjectDoesNotExist

exception MultipleObjectsReturned

Bases: django.core.exceptions.MultipleObjectsReturned

id

Model field: ID

name

Model field: name

objects = <django.db.models.manager.Manager object>

record_set

Model field: zone, accesses the M2M *Record* model.

save (*args, **kwargs)

Default value for slug

slug

Model field: slug

4.2 Views

```
class dnsmanager.views.ZoneDetailView(**kwargs)
    Bases: django.contrib.auth.mixins.PermissionRequiredMixin, django.views.generic.detail.DetailView

    This view generates a zone file

    model
        alias of dnsmanager.models.Zone

    permission_required = ('dnsmanager.view_zone', 'dnsmanager.view_record')
```

4.3 Integrations

4.3.1 Integration with Django Rest Framework

This app brings serializers and viewsets for Django Rest Framework. You can use those in your REST API like this,

```
from django.conf.urls import include, url
from rest_framework import routers
from dnsmanager.api import views

router = routers.DefaultRouter()
router.register(r'record', views.RecordViewSet)
router.register(r'zone', views.ZoneViewSet)

urlpatterns += [
    url(r'^api/', include(router.urls)),
]
```

4.3.1.1 Views

```
class dnsmanager.api.views.RecordViewSet(**kwargs)
    Bases: rest_framework.viewsets.ModelViewSet

    queryset = PolymorphicQuerySet
    serializer_class
        alias of dnsmanager.api.serializers.RecordPolymorphicSerializer

class dnsmanager.api.views.ZoneViewSet(**kwargs)
    Bases: rest_framework.viewsets.ModelViewSet

    queryset = QuerySet
    serializer_class
        alias of dnsmanager.api.serializers.ZoneSerializer
```

4.3.1.2 Serializers

```
class dnsmanager.api.serializers.AAAASerializer(instance=None,           data=<class
                                                    'rest_framework.fields.empty'>,
                                                    **kwargs)
    Bases: rest_framework.serializers.ModelSerializer

class dnsmanager.api.serializers.ASerializer(instance=None,           data=<class
                                                    'rest_framework.fields.empty'>,
                                                    **kwargs)
    Bases: rest_framework.serializers.ModelSerializer

class dnsmanager.api.serializers.CAASerializer(instance=None,           data=<class
                                                    'rest_framework.fields.empty'>,
                                                    **kwargs)
    Bases: rest_framework.serializers.ModelSerializer

class dnsmanager.api.serializers.CNAMESerializer(instance=None,           data=<class
                                                    'rest_framework.fields.empty'>,
                                                    **kwargs)
    Bases: rest_framework.serializers.ModelSerializer

class dnsmanager.api.serializers.DNAMESerializer(instance=None,           data=<class
                                                    'rest_framework.fields.empty'>,
                                                    **kwargs)
    Bases: rest_framework.serializers.ModelSerializer
```

```

class dnsmanager.api.serializers.MXSerializer(instance=None, data=<class
    'rest_framework.fields.empty'>,
    **kwargs)
    Bases: rest_framework.serializers.ModelSerializer

class dnsmanager.api.serializers.NSSerializer(instance=None, data=<class
    'rest_framework.fields.empty'>,
    **kwargs)
    Bases: rest_framework.serializers.ModelSerializer

class dnsmanager.api.serializers.PTRSerializer(instance=None, data=<class
    'rest_framework.fields.empty'>,
    **kwargs)
    Bases: rest_framework.serializers.ModelSerializer

class dnsmanager.api.serializers.RecordPolymorphicSerializer(*args, **kwargs)
    Bases: dnsmanager.api.polymorphic_serializer.PolymorphicSerializer

    model_serializer_mapping = {<class 'dnsmanager.models.AddressRecord'>: <class 'dnsmanag...>}

class dnsmanager.api.serializers.SOASerializer(instance=None, data=<class
    'rest_framework.fields.empty'>,
    **kwargs)
    Bases: rest_framework.serializers.ModelSerializer

class dnsmanager.api.serializers.SRVSerializer(instance=None, data=<class
    'rest_framework.fields.empty'>,
    **kwargs)
    Bases: rest_framework.serializers.ModelSerializer

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    'rest_framework.fields.empty'>,
    **kwargs)
    Bases: rest_framework.serializers.ModelSerializer

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    'rest_framework.fields.empty'>,
    **kwargs)
    Bases: rest_framework.serializers.ModelSerializer

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    'rest_framework.fields.empty'>,
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