Representations of various DNS resource record (RR) types.

Modules

logging signal struct sys

Classes

RR

RR A RR AAAA RR CNAME RR NS RR SOA

class RR

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Memb

_dn https://eduassistpro.githubnio/b.DomainName)

-ttl Add WeChat edu_assist_pro

type -- The DNS type of this resource record; one of { \underline{RR} .TYPE (DNS A record), \underline{RR} .TYPE_NS (DNS NS record), \underline{RR} .TYPE_CNAME (DNS CAME

record), <u>RR</u>.TYPE_SOA (DNS start-of-authority record), <u>RR</u>.TYPE_PT (DNS PTR record), <u>RR</u>.TYPE_MX (DNS mail exchange record), <u>RR</u>.TYPE_AAAA (DNS IPv6 address record).

_class - the DNS class type of this resource record. Always RR.CLASS_IN for Internet in this implementation (other classes dexist in general).

Methods defined here:

```
__init__(self, dn, ttl, rdlength)
Initialize a <u>RR</u> from a user-supplied DomainName, ttl, and rdlength. Note that this <u>RR</u> class only handles RRs of clas IN
(Internet).
```

dn -- a DomainName *object* (see class gz01.inetlib.DomainN
e)
that this RR represents.

```
seconds.
         rdlength -- an integer length of the data field in the RR.
         his
                       is used to compute this <u>RR</u>'s length, which is
                       subsequently used by subclasses derived from RR
     __len__(self)
         Return the length of this RR.
     __str__(self)
         Return a string rep.
    pack(self)
         Pack this <u>RR</u> into a packed-binary string rep and return tha
         string.
    Static methods defined here:
    fromData(data, offset=0)
        Given user-supplied packed binary data and an optional offs
    SSignantantal roterns etwortentementaining a new RR-derived object and the (compact) length of that obje
        https://eduassistpro.github.io/
    Data and other attributes defined her
    CLASAdd WeChat edu_assist_pro
    TYPE_A = 1
    TYPE\_AAAA = 28
    TYPE\_CNAME = 5
    TYPE\_MX = 15
    TYPE NS = 2
    TYPE\_PTR = 12
    TYPE\_SOA = 6
    TYPE_UNKNOWN = -1
class RR_A(<u>RR</u>)
   Representation of a DNS \underline{RR} of type A (address).
   Member variables:
```

ttl -- a 16-bit integer time-to-live, measured in units of

```
Methods defined here:
```

```
__init__(self, dn, ttl, addr)
    Initialize a RR A based on a user-supplied parameters.

dn -- a DomainName object
    ttl -- a 16-bit integer time to live, measured in units of seconds.
    addr -- an internet address (a packed four-byte quantity constructed using socket.inet_aton).

__repr__(self)
    Return a diagnostic string rep.

__str__(self)
    Return a pretty-printable string rep.
```

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Static methods inherited from RR:

```
fromData(data, offset=0)
```

Given user-supplied packed binary data and an optional offs into that data, returns a two-tuple containing a new RR-derived object and the (compact) length of that object.

Data and other attributes inherited from RR:

```
CLASS_IN = 1

TYPE_A = 1

TYPE_AAAA = 28

TYPE_CNAME = 5

TYPE_MX = 15
```

```
TYPE_PTR = 12
    TYPE\_SOA = 6
    TYPE_UNKNOWN = -1
class RR_AAAA(RR)
   An IPv6 RR.
    Methods defined here:
    __init__(self, dn, ttl, addr)
    __str__(self)
    pack(self)
        Reutrn a packed-binary rep.
Assignment Project Exam Help
    Methods inherited from RR:
    — https://eduassistpro.github.io/
    Add WeChat edu_assist_pro
    fromData(data, offset=0)
        Given user-supplied packed binary data and an optional offs
        into that data, returns a two-tuple containing a
        new RR-derived object and the (compact) length of that obje
    Data and other attributes inherited from RR:
    CLASS_IN = 1
    TYPE_A = 1
    TYPE\_AAAA = 28
    TYPE\_CNAME = 5
    TYPE_MX = 15
    TYPE_NS = 2
```

 $TYPE_NS = 2$

```
TYPE_PTR = 12
    TYPE\_SOA = 6
    TYPE_UNKNOWN = -1
class RR_CNAME(RR)
   Representation of a DNS RR of type CNAME.
   Member variables:
   _cname -- the DomainName that this CNAME record points to.
    Methods defined here:
    __init__(self, dn, ttl, cname)
        Initialize a <a href="RR_CNAME">RR_CNAME</a> based on a user-supplied parameters.
        dn -- a DomainName object
        ttl -- a 16-bit integer time to live, measured in units of
          seconds.
Assignmente Project Exant Helpe entry.
     _re
        https://eduassistpro.github.io/
        Return a pretty-prin
          dd WeChat edu_assist_pro
        Return a packed-bina
    Methods inherited from RR:
     _len_(self)
        Return the length of this RR.
    Static methods inherited from RR:
    fromData(data, offset=0)
        Given user-supplied packed binary data and an optional offs
        into that data, returns a two-tuple containing a
        new RR-derived object and the (compact) length of that obje
```

Data and other attributes inherited from **RR**:

 $CLASS_IN = 1$

```
TYPE\_AAAA = 28
    TYPE\_CNAME = 5
    TYPE_MX = 15
    TYPE_NS = 2
    TYPE_PTR = 12
    TYPE\_SOA = 6
    TYPE_UNKNOWN = -1
class RR_NS(RR)
   Representation of a DNS RR of type NS (name server).
   Member variables:
   recognities Property of the England I show that this RR NS
    Methhttps://eduassistpro.github.io/
    __init__(self, dn, ttl, nsdn)
        Add We Chat edu_assist plot o arameters.
        dn -- a DomainName object referring to the domain name for
        ich
          this NS record is about.
        ttl -- time to live
        nsdn -- the DomainName of the name server that serves dn
     __repr__(self)
        Return a diagnostic rep.
    __str__(self)
        Return a pretty-printable string rep.
    pack(self)
        Return a packed-binary rep.
    Methods inherited from RR:
     __len__(self)
        Return the length of this RR.
```

 $TYPE_A = 1$

```
Static methods inherited from RR:
    fromData(data, offset=0)
        Given user-supplied packed binary data and an optional offs
        into that data, returns a two-tuple containing a
        new RR-derived object and the (compact) length of that obje
    Data and other attributes inherited from RR:
    CLASS_IN = 1
    TYPE A = 1
    TYPE\_AAAA = 28
    TYPE\_CNAME = 5
    TYPE\_MX = 15
    TYPE_NS = 2
   ssignment Project Exam Help
    TYP
    TYPhttps://eduassistpro.github.io/
class RR_squared WeChat edu_assist_pro
   A start-of-authority (SOA) RR.
    Methods defined here:
```

```
__copy__(self)
```

```
__init__(self, dn, ttl, mname, rname, serial, refresh, retry, expire, minimum)
__repr__(self)
__str__(self)
```

Methods inherited from RR:

pack(self)

```
__len__(self)
   Return the length of this RR.
```

Static methods inherited from RR:

```
fromData(data, offset=0)
```

Given user-supplied packed binary data and an optional offs into that data, returns a two-tuple containing a new RR-derived object and the (compact) length of that object.

Data and other attributes inherited from RR:

 $CLASS_IN = 1$

 $TYPE_A = 1$

 $TYPE_AAAA = 28$

 $TYPE_CNAME = 5$

 $TYPE_MX = 15$

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TYPE_UNKNOWN = -1

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Functions

```
inet_aton(...)
        inet_aton(string) -> packed 32-bit IP representation

Convert an IP address in string format (123.45.67.89) to the 32-bit packed binary format used in low-level network functions.

inet_ntoa(...)
    inet_ntoa(packed_ip) -> ip_address_string

Convert an IP address from 32-bit packed binary format to str ing format

inet_ntop(...)
    inet_ntop(af, packed_ip) -> string formatted IP address

Convert a packed IP address of the given family to string for mat.
```

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