Representation of the DNS protocol header

Modules

Classes

Header

struct

class **Header**

Representation of the DNS protocol header.

Member variables:

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one of {
Hehttps://eduassistpro.github.io/

_rcode -- the 4-bit DNS r e of { <u>Header</u>.RCODE_NOE <u>Header RCODE_NAMEERR</u>, <u>H</u> edu_assisted

**The code -- the 4-bit DNS r e of { Header.RCODE_NOE |

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**The code -- the code -

_qdcount -- number of question entries indicated in the <u>Header</u>

_ancount -- number of answer entries indicated in the <u>Header</u>

_nscount -- number of authoritative entries indicated in the Hea

_arcount -- number of additional entries indicated in the <u>Header</u>

- _aa -- Authoritative Answer this bit is valid in responses, ar specifies that the responding name server is an authority for the domain name in question section.
- _tc -- TrunCation specifies that this message was truncated du to length greater than that permitted on the transmission channel.
- _rd -- Recursion Desired this bit may be set in a query and is copied into the response. If RD is set, it directs the na server to pursue the query recursively. Recursive query support is optional.
- _ra -- Recursion Available this be is set or cleared in a response, and denotes whether recursive query support is available in the name server.

```
Methods defined here:
```

```
__init__(self, id, opcode, rcode, qdcount=0, ancount=0, nscount=0, arcount=0, qr=False, aa=F
   tc=False, rd=False, ra=False)
       Initialize the <u>Header</u> from supplied arguments.
       id -- the 16-bit DNS query identifier of the query
       opcode -- the 4-bit DNS query opcode, one of {
         Header.OPCODE_QUERY, Header.OPCODE_IQUERY, Header.OPCODE_
       TUS
         }.
       rcode -- the 4-bit DNS response code, one of { Heade
       r.RCODE NOERR,
         Header.RCODE_FORMATERR, Header.RCODE_SERVFAIL,
         Header.RCODE_NAMEERR, Header.RCODE_NIMPL }.
       Keyword arguments:
       qdcount -- number of question entries indicated in the Head
       ancount -- number of answer entries indicated in the Header
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       arcount -- number of additional entries indicated in the He
       https://eduassistpro.github.io/
       aa -- Authoritative Answer - this bit is valid in responses
       nd
         ddspwieshat edu_assistme@f@er is an autho
             for the domain name in question section.
       tc -- TrunCation - specifies that this message was truncate
       ue
             to length greater than that permitted on the transmis
       n
             channel.
       rd -- Recursion Desired - this bit may be set in a query an
             copied into the response. If RD is set, it directs t
       name
             server to pursue the query recursively. Recursive qu
             support is optional.
       ra -- Recursion Available - this be is set or cleared in a
             response, and denotes whether recursive query support
             available in the name server.
    _len__(self)
       Return the length of the <u>Header</u>'s binary string representat
    _str__(self)
       Return a human-readable string representation of the <u>Header</u>
```

```
Return a packed binary string representation of the <u>Header</u>.
Static methods defined here:
fromData(headerdata, offset=0)
    Return a new <u>Header</u> object from the supplied binary data.
Data and other attributes defined here:
OFFSET\_AA = 10
OFFSET_OPCODE = 11
OFFSET_QR = 15
OFFSET_RA = 7
OFFSET_RCODE = 0
ssignment Project Exam Help
OFF
offhttps://eduassistpro.github.io/
OPCODE_IQUERY = 1
орс Add WeChat edu_assist_pro
OPCODE\_STATUS = 2
\mathbf{QUERY} = 0
RCODE\_FORMATERR = 1
RCODE_NAMEERR = 3
RCODE_NIMPL = 4
RCODE_NOERR = 0
RCODE\_SRVFAIL = 2
RESPONSE = 1
```

pack(self)