

DNS

Which DNS records are there and what do I have to consider ?

Below you find an overview of the most used DNS records. Please note that not all records are usable in each package.

Faulty entries in the DNS can lead to inaccessibility.

RecordType: A
Description: IPv4 address of a host
Standards for target: must contain IP addresses only (IPv6) (IPv4)
Example for target: 88.88.99.22
Wikipedia link: http://en.wikipedia.org/wiki/List_of_DNS_record_types

RecordType: AAAA
Description: IPv6 address of a host
Standards for target: must contain IP addresses only (IPv6)
Example for target: 3efe:8124:3000:bf0::1

RecordType: AFSDB
Description: Resource Record for Cell Database server of the Andrew File Systems
Standards for target: #subtype hostname (where subtype has to be a number)

RecordType: CERT
Description: Resource Record for saving certificates (RFC4398)
Standards for target: (see RFC 4398)
Further links: <http://tools.ietf.org/html/rfc4398>

RecordType: CNAME
Description: defines an alias name for an existing DNS name
Standards for target: Always must be a hostname (FQDN)
Example for target: subdomain.domain.tld
Wikipedia link: <http://en.wikipedia.org/wiki/CNAME>

RecordType: DNSKEY
Description: contains a public key (DNSSEC) assigned to the name

Standards for target: ---
Wikipedia-Link: <http://en.wikipedia.org/wiki/DNSKEY>

RecordType: DS
Description: handles the linkage of DNSSEC signed zones (DNSSEC)
standards for target: ---

RecordType: HINFO
Description: Hardware Info Record
Standards for target: text containing the used hardware for instance
Example for target: i686 Linux

RecordType: KEY

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Description: contains a public key assigned to the name

Standards for target: see RFC 2535

Wikipedia link: http://en.wikipedia.org/wiki/List_of_DNS_record_types

RecordType: LOC

Description: location / see RFC 1876

Standards for target: 51 51 0.123 N 5 52 0.000 E 4.00m 1.00m 10000.00m 10.00m

Wikipedia link: http://en.wikipedia.org/wiki/List_of_DNS_record_types

RecordType: MX

Description: mail exchange – the mail server competent for the domain

Standards for target: hostname (no IP), use prio field for priority

Example for target: mx10.domain.tld

Wikipedia-Link: http://en.wikipedia.org/wiki/MX_record

RecordType: NAPTR

Description: Naming Authority Pointer - expansion of the A Resource Record

Standards for target: entries in the order: order, preference, flags, service, regex, replacement

Example for target: '110 30 "s" "z3950+I2L+I2C" "" _z3250._tcp.domain.tld'.

Wikipedia-Link: <http://en.wikipedia.org/wiki/NAPTR>

RecordType: NS

Description: hostname of an authoritative name server

Standards for target: hostname (FQDN), no IP

Example for target: ns1.domain.tld

Wikipedia-Link: http://en.wikipedia.org/wiki/NS_record

RecordType: NSEC

Description: NSEC DNSSEC record type (DNSSEC)

Standards for target: ---

Wikipedia link: http://en.wikipedia.org/wiki/List_of_DNS_record_types

RecordType: PTR

Description: Domain Name Pointer (for Reverse Mapping, assigning names to IP addresses)

Standards for target: ---

Wikipedia link: http://en.wikipedia.org/wiki/PTR_record

RecordType: RP

Description: responsible person (RFC 1183)

Standards for target: ---

Example for target: tim.domain.tld tim.people.domain.tld

Means that tim@domain.tld ist responsible and more information can be found in the TXT record "tim.people.domain.tld"

Wikipedia-Link: http://en.wikipedia.org/wiki/List_of_DNS_record_types

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RecordType: RRSIG
Description: contains a digital signature (DNSSEC)
Standards for target: ---
Wikipedia link: <http://en.wikipedia.org/wiki/RRSIG>

RecordType: SPF
Description: Sender Policy Framework
Standards for target: see www.openspf.org
Wikipedia link: http://en.wikipedia.org/wiki/List_of_DNS_record_types
Wichtig: input in the customer center must be enclosed in inverted commas, e.g.,
"v=spf1 ip4:85.31.185.13 a mx ~all"

RecordType: SSHFP
Description: for Secure Shell (SSH) fingerprints
Standards for target: an example from RFC 4255:
'2 1 123456789abcdef67890123456789abcdef67890'

RecordType: SRV
Description: offered service
Standards for target: priority is set in the prio field, the rest in the target field
Example for target: 100 389 mars.conaxis.ch
Wikipedia-Link: http://en.wikipedia.org/wiki/SRV_record

RecordType: TXT
Description: loosely definiable, also used for Sender Policy Framework (SPF)
Standards for target: ---
Wikipedia link: http://en.wikipedia.org/wiki/TXT_record
Important: the entries **must not** be enclosed in inverted commas

Additional links:

[Resource records at Wikipedia](#)

[DNS system at wikipedia](#)

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