Managing DNS records on templates

This page explains how to view the DNS records of a template as well as how to add and remove such records.

- Viewing the DNS records
- Adding a DNS record
- DNS template example

Viewing the DNS records

If you click the name of a template, you will be redirected to the template's management page. This is where you can view the list of DNS records included in the template. Here's what each field in the list stands for:

- Host: This is the hostname or IP address of every DNS record.
- Record type: The type of DNS Record.
- Value: Depending on the record type, this field displays an IP address, an alias, a name server, a hostname, or a text.
- Replacement
- Priority
- Weight
- M: If you click this icon, you can edit the details of a specific DNS record.

Adding a DNS record

Once you're in the template's management page, click the Add DNS records button.

This is where you select the record type and configure each record accordingly:

Record Type	Details
IP Address	Maps a hostname to a 32-bit IPv4 address.
(A)	Type A rules have the following format:
	hostname. IN A XXX.XXX.XXX
	where:
	 xxx.xxx.xxx is the IP address for the hostname. hostname. is the zone name or one of its subdomains.
	Examples:
	domain.com. IN A 1.2.3.4 subdomain.domain.com. IN A 1.2.3.4 domain.com. IN A [IP]
	Click here for more info on this type of record.
AAAA	Maps a hostname to a 128-bit IPv6 address.
(AAAA)	AAAA rules have the following format:
	hostname. IN AAAA:AAAA:AAAA:AAAA:AAAA:AAAA:AAAA
	where:
	 AAA:AAAA:AAAA:AAAA:AAAA:AAAA:AAAA:AAA
	Examples:
	domain.com. IN AAAA abcd:1234:ffff:0:12:3:abl:aa subdomain.domain.com. IN AAAA abcd:1234:ffff:0:12:3:abl:aa
	Click here for more info on this type of record.

Certification	Specifies one or more Certification Authorities (CAs) authorized to issue certificates for that domain.	
Authority Authorization	CAA rules have the following format:	
(CAA)	hostname. IN CAA flags tag value	
	where:	
	• flags is an unsigned integer between 0 and 255. It is currently used to represent the critical flag, that has a specific meaning per	
	 tag is an ASCII string that represents the identifier of the property represented by the record value is the value associated with the tag. 	
	The CAA record consists of a flags byte and a tag-value pair referred to as a 'property'. Multiple properties may be associated with the same domain name by publishing multiple CAA records at that domain name.	
	There are 3 available tags:	
	 issue: explicity authorizes a single certificate authority to issue a certificate (any type) for the hostname. issuewild: explicity authorizes a single certificate authority to issue a wildcard certificate (and only wildcard) for the hostname. iodef: specifies a URL to which a certificate authority may report policy violations. 	
	Examples:	
	example.com. IN CAA 0 issue ";"	
	example.com. CAA 0 issue "letsencrypt.org" example.com. CAA 0 issuewild "comodoca.com"	
	example.com. CAA 0 iodef "mailto:example@example.com"	
Alias for record	Canonical name record is an alias (or nickname) of one name to another.	
(CNAME)	The A record to which the alias points can be either local or remote - on a foreign name server. This is useful when running multiple services (like an FTP and a webserver) from a single IP address.	
	Each service can then have its own entry in DNS (like ftp.example.com. and www.example.com.). It is also used when running multiple HTTP servers, with different names, on the same physical host.	
	CNAME rules have the following format:	
	hostname. IN CNAME servername.	
	where:	
	 hostname. is the zone name or one of its subdomains servername. is a fully qualified domain name (FQDN) either inside or outside the zone. 	
	Examples:	
	ftp.domain.com. IN CNAME inside.domain.com. ftpl.domain.com IN CNAME outside.zone.com.	
	kldomainkey.domain.com IN CNAME dkim.zone.com.	
	RFC 1034 states: "If a CNAME record is present at a node, no other data should be present: this ensures that the data for a	
	canonical name and its aliases cannot be different." In order for these requirements to be met in DNS Manager, the value specified in the Zone alias name field of the CNAME record cannot be set for the DNS Zone name filed in NS, A, AAAA, SRV, CNAME and TXT records or for the Zone email field in an MX record.	

Nameserver	Maps a domain name to a list of DNS servers authoritative for that domain. Delegations depend on NS records.
(NS)	NS rules have the following format:
	hostname. IN NS servername.
	where:
	 hostname. is the zone name or one of its subdomains servername. is a domain name which specifies an
	authoritative host for the specified hostname.
	Examples:
	domain.com. IN NS nsl.example.com. domain.com. IN NS nsl.example.com.
	The NS records of \$ORIGIN are displayed in bold characters. DNS Manager allows to choose in the interface which is the primary nameserver on a zone (required for some local TLDs). In order to set up an NS record as primary check Make primary when you add /edit the desired NS record.
	For BIND to take a DNS zone into consideration, at least one NS record must be defined for \$ORIGIN in the respective zone.
	For best practice, it is recommended to have at least two NS records defined for each public domain.
	Click here for more info on this type of record.
Mail exchanger	Maps a domain name to a list of mail exchange servers for that domain.
(MX)	MX rules have the following format:
	hostname. IN MX preference servername.
	where:
	 hostname. is the zone name or one of its subdomains preference indicates the hostname's priority. The lower the preference, the higher the priority. This parameter accepts values between 0 and 50. servername. is a fully qualified domain name (FQDN) inside the zone
	Examples:
	mail.domain.com. IN MX 10 domain.com. webmail.domain.com. IN MX 5 domain.com.
	Click here for more info on this type of record.
Text record (TXT)	Allows an administrator to insert arbitrary text into a DNS record. This has been used to implement new functions with DNS support without allocating new record types. For example, this record is used to implement the Sender Policy Framework and DomainKeys specifications.
	TXT rules have the following format:
	hostname. IN TXT "Text information"
	where:
	 hostname. is the zone name or one of its subdomains "Text information" can be any type of string including strings generated by SPF Rules
	Examples:
	domain.com. IN TXT "k=rsa; p=MEwwDQYerwqEWwE" subdomain.domain.com. IN TXT "this is a test"
	Click here for more info on this type of record.

O a maile a	Specifies the location of the server(s) for a specific protocol and domain					
Service Record (SRV)						
, , , , , , , , , , , , , , , , , , ,	SRV rules have the following format:					
	_ServiceProtocol.Hostname. IN SRV TTL Priority Weight Port Target					
	where:					
	 Service is the symbolic name of the desired service. You can find a list of the available services at http://www.dns-sd.org /ServiceTypes.html. Protocol is the protocol of the desired service. This is usually TCP or UDP, but 4PSA DNS Manager supports all the protocol is the protocol of the desired service. This is usually TCP or UDP, but 4PSA DNS Manager supports all the 					
	 Hostname. is the domain name for which the record is valid. TTL is the standard DNS time to live field. If there is no TTL specified for the record, the TTL value for the zone will be analyzed. 					
	 Priority is the priority of the target host. The lower the value, the higher the priority level. 					
	• Weight indicates a relative weight between records with the same priority.					
	 Port is the port on which the service is to be found. Target is the domain name of the target host. 					
	The Target parameter can not be an alias (CNAME). When Target is set to . the service is unavailable.					
	Examples:					
	_servicetcp.domain.com. IN SRV 0 1 9 subdomain.domain.com. *tcp.domain.com. IN SRV 0 0 0 .					
	on TCP protocol					
	Click here for more info on this type of record.					
NAPTR	Naming Authority Pointers.					
record (NAPTR)	NAPTR rules have the following format:					
	order preference services flag regexp replacement					
	where:					
	 order indicates the order in which records are to be processed when a query returns multiple NAPTR records preference indicates the processing order for multiple records with identical order services indicate the resolution protocol and resolution services employed when applying a rewrite according to the regexp or replacement field flag is a modifier that affects the next DNS lookup regexp is the primary field used for rewrite rules replacement is a secondary field used for rewrite rules 					
	Examples:					
	domain.com. IN NAPTR 100 10 "u" "sip+E2U" "!^.*\$! sip:information@foo.se!i" . subdomain.domain.com. IN NAPTR 102 10 "u" "smtp+E2U" "!^.*\$! mailto:information@foo.se!i" .					
	Click here for more info on this type of record.					
Record Type	Details					

Nameserver (NS)	Specifies a host which should be authoritative for the specified class. For class C reverse zones, 4PSA DNS Manager accepts NS records for \$ORIGIN and supports classless delegation records, as described in RFC 2317, chapter 4.					
	The NS records of \$ORIGIN are displayed in bold characters. DNS Manager allows to choose in the interface which is the primary nameserver on a zone (required for some local TLDs). In order to set up an NS record as primary check Make primary when you advect the desired NS record.					
	For BIND to take a DNS zone into consideration, at least one NS record must be defined for \$ORIGIN in the respective zone.					
	For best practice, it is recommended to have at least two NS records defined for each public domain.					
	Class A and B zones support NS records for \$ORIGIN and inferior class zones and do not support classless delegation records. For class C reverse zones, 4PSA DNS Manager automatically generates CNAME records that correspond to the NS records created for classless delegation records. If the Automatically generate CNAME records for delegated subnets checkbox is selected, then the CNAME records will be automatically generated. This checkbox is available only for NS records with a subnet mask lower than 24 (having a numeric value higher than 24).					
	NS rules have the following format:					
	<pre>ip_part.host_ip_addr.in-addr.arpa. IN NS servername.</pre>					
	where:					
	 host_ip_addr.in-addr.arpa. is the zone name. ip_part is the IP section that completes the IP address when prepended to host_ip_addr (for class A, B and D zones, and for class C \$ORIGIN NS). for classless delegation records, ip_part is the IP section that completes the IP address when prepended to host_ip_addr including the subnet mask. servername. is a domain name which specifies an authoritative host for the specified zone. 					
	Examples:					
	<pre>1.2.3.in-addr.arpa. IN NS ns2.server.com. 1.2.3.in-addr.arpa. IN NS ns3.server.com. 0/29.1.2.3.in-addr.arpa. IN NS example.com.</pre>					
	Click here for more info on this type of record.					
Reverse record	Maps an IPv4 address to the canonical name for that host. Setting up a PTR record for a hostname in the in-addr.arpa. domain that corresponds to an IP address implements reverse DNS lookup for that address.					
(PTR)	PTR rules have the following format:					
	IPaddress IN PTR hostname.					
	where:					
	 IPaddress is the IPv4 address in the IN-ADDR.ARPA. domain hostname. is the corresponding location in the domain name space 					
	Examples:					
	5.1.2.3.in-addr.arpa. IN PTR test.com.					
	Click here for more info on this type of record.					

Alias for record	A canonical name record is an alias of one name to another. According to RFC 2317, CNAME records are only supported in C class reverse zones. CNAME rules have the following format:					
(CNAME)	<pre>ip_part.network.host_ip_addr.in-addr.arpa. IN CNAME ip_part.host_ip_addr.in-addr.arpa.</pre>					
	where:					
	 ip_part is the IP section that completes the IP address when prepended to host_ip_addr network is the subnet mask host_ip_addr.in-addr.arpa. is the zone name 					
	Examples:					
	0.1.2.3.in-addr.arpa. IN CNAME 0.0/29.1.2.3.in-addr.arpa. 1.1.2.3.in-addr.arpa. IN CNAME 1.0/29.1.2.3.in-addr.arpa. 7.1.2.3.in-addr.arpa. IN CNAME 7.0/29.1.2.3.in-addr.arpa.					
	Click here for more info on this type of record.					
Text record (TXT)	Allows an administrator to insert arbitrary text into a DNS record. This has been used to implement new functions with DNS suppor without allocating new record types. For example, this record is used to implement the Sender Policy Framework and DomainKeys specifications.					
	TXT rules have the following format:					
	ip_part.host_ip_addr.in-addr.arpa. IN TXT "Text information"					
	where:					
	 ip_part is the IP section that completes the IP address when prepended to host_ip_addr host_ip_addr.in-addr.arpa. is the zone name "Text information" can be any type of string 					
	Examples:					
	4.1.2.3.in-addr.arpa. IN TXT "This is a test"					
	Click here for more info on this type of record.					
Record Type	Details					
Nameserver	Specifies a host which should be authoritative for the chosen class.					
(NS)	The NS records can be defined only for \$ORIGIN.					
	The NS rules have the following format:					
	ipv6_part.host_ipv6_addr.IP6.ARPA. IN NS servername.					
	where:					
	 ipv6_part is the IP section that completes the IP address when prepended to host_ipv6_addr. host_ipv6_addr.IP6.ARPA. is the zone name. servername. is a domain name which specifies an authoritative host for the defined zone. 					
	For example:					
	1.0.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6.7.8.9.0.A.B.C.D.E.F.IP6.ARPA. IN NS example.com. 5.5.1.3.2.1.0.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6.7.8.9.0.A.B.C.D.E.F.IP6.ARPA. IN NS example.com.					
	For more information about this record type, see RFC4291.					

Reverse record (PTR)	This record type maps an IPv6 address to the canonical name for that host. Setting up a PTR record for a hostname in the IP6.ARPA. domain that corresponds to an IPv6 address implements reverse DNS lookup for that address. The PTR rules have the following format:					
	IPv6_address IN PTR hostname.					
	where:					
	 IPv6_address is the IPv6 address in the IP6.ARPA. domain hostname. is the corresponding location in the domain name space 					
	For example:					
	8.b.d.0.1.0.0.2.IP6.ARPA. IN PTR test.com. 1.1.1.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.					
	For more information about this record type, see RFC4291.					
Record Type	Details					
Nameserver	Maps a domain name to a list of DNS servers authoritative for that domain. Delegations depend on NS records.					
(NS)	NS rules have the following format:					
	hostname. IN NS servername.					
	where:					
	 hostname. is the zone name or one of its subdomains servername. is a domain name which specifies an authoritative host for the specified hostname. 					
	Examples:					
	<pre>1.2.el64.arpa. IN NS nsl.example.com. 1.2.el64.arpa. IN NS ns2.example.com. 5.1.2.el64.arpa. IN NS nsl.example.com.</pre>					
	The NS records of \$ORIGIN are displayed in bold characters. DNS Manager allows to choose in the interface which is the primary nameserver on a zone (required for some local TLDs). In order to set up an NS record as primary check Make primary when you add /edit the desired NS record.					
	For BIND to take a DNS zone into consideration, at least one NS record must be defined for \$ORIGIN in the respective zone. For best practice, it is recommended to have at least two NS records defined for each public domain.					
	Click here for more info on this type of record.					
NAPTR	Naming Authority Pointers.					
(NAPTR)	NAPTR rules have the following format:					
	order preference services flag regexp replacement					
	where:					
	 order indicates the order in which records are to be processed when a query returns multiple NAPTR records preference indicates the processing order for multiple records with identical order services indicate the resolution protocol and resolution services employed when applying a rewrite according to the regexp or replacement field flag is a modifier that affects the next DNS lookup regexp is the primary field used for rewrite rules replacement is a secondary field used for rewrite rules 					
	1.2.e164.arpa. IN NAPTR 100 10 "u" "sip+E2U" "!^.*\$! sip:information@foo.se!i" . 1.2.e164.arpa. IN NAPTR 102 10 "u" "smtp+E2U" "!^.*\$! mailto:information@foo.se!i" .					
	Click here for more info on this type of record.					

DNS template example

Host	Record type	Value
[domain].	NS	ns.[domain].
[domain].	NS	ns1.example.com.
[domain].	A	[IP]
ns.[domain].	A	10.150.11.100
mail.[domain].	А	[IP]
ns.[domain].	A	[IP]
webmail.[domain].	A	[IP]
[domain].	MX (10)	mail.[domain].
ftp.[domain].	CNAME	[domain].