Working with DNS Records

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Dashboard	Resources - DNS -	DHCP - Servers If	PAM 👻 Peer	ing 👻 F	Reporting - Global	Commander 👻			Search		۹ 1
DNSv3	DNS Groups	DNS Servers DNS	Zones	DNS Re	ecords			A	-	Add Record	
Decer	11:04										
Record	LIST										
Record	Host		Record	Туре	Record Comme	nt	Record Value				
Filter by	/ Record Host			•	Filter by Record 0	Comment	Filter by Record Va	ilter by Record Value			
Last Qu	ery		Last Modified Record TTL * Pick Date			Record TTL	R	Record Status			
< 7	Pick Date										
>	Pick Date		IP Range								
			Filter IP Address Min Filter IP Address Max								
Filter											
↓† Record	d Host	Record Type		Recor	d Value	↓ ↑ Last G	ueried	Actions			
{1-255}.1	92.88.64.in-addr.arpa.	PTR		64-88-	192-\$1-			Check	Perms Del	ete	
				test tes	st						
{1-255}.1	93.88.64.in-addr.arpa.	PTR		64-88-	193-\$1-			Check	Perms Dele	ete	
(1.055) 1	04.00.04 in address	DTD		Sinario	104 61						
{1-255}.1	94.88.64.in-addr.arpa.	ЫК		64-88- smartc	194-\$1- om.sc2000.net.			Check	Perms Dele	ete	

DNS Records may be managed either from the Zone View page (for the records under their respective zone) or globally through the **DNS Records** sub-tab.

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Working with Records - DNS Records List

The DNS Records List provides a global list records for expedited searching, filtering, adding, and editing of DNS Records.

cord	List						
Record H	lost		Reco	ord Type	Record Comment	Record Value	
Filter by Record Host		· · · ·		Filter by Record Comment	Filter by Record Value		
Last Que	ry		Last	Modified		Record TTL	Record Status
< •	Pick Date		<	< V Pick Date		Record TTL	•
Filter			F	ilter IP Addres	Filter IP A	ddress Max	
↓† Record	Host	Record Type		Recor	d Value ↓↑ L	ast Queried	Actions
{1-255}.19	2.88.64.in-addr.arpa.	PTR		64-88- smarto test tes	192-\$1- com.sc2000.net. st		Check Perms Delete
{1-255}.19	3.88.64.in-addr.arpa.	PTR		64-88- smarte	193-\$1- com.sc2000.net.		Check Perms Delete

From the DNS Tab, click on the "DNS Records" sub-tab button, or select it from the DNS dropdown menu.

All DNS records available in ProVision displays in a single Record List, along with Host, Type, Value, and Last Queried information.

Records may be sorted ascending/descending by "Record Host" name, or by "Last Queried", by clicking on the column header name / sort arrows.

Filter Records

Search for specific records by filtering by Host, Type, Comment, Value, Last Query, Last Modified, Record TTL, Status, or IP Range.

After entering your filter criteria, click "Filter".

Record	Host		Record Type Record Comment		Record Value		
www.as		А	A Filter by Record Comment		Filter by Record Value		
		Last Modified			Record TTL	Record Status	
< V Pick Date			<	Pick Date		Record TTL	•
> •	Pick Date						
\sim							
Filter		Decord Time		Descrit Velus		Quarted	Actions
Filter	Host 1860.net.	Record Type		Record Value 64.88.210.71	↓† Last	t Queried	Actions

Record Actions

For each record, you may:

- Click the "Check" button to run an DNS Monitor error check on the record
 Review or change record permissions by clicking "Perms" (Admin only)

- Delete the record by clicking "Delete"
 Review or Edit record details by double-clicking on the row for the desired record.
 - Review record revision dates or enter your desired edit, then click "Save changes" to complete.

ſ	Edit NS reco	ord			×
	Туре:	NS			
	Host:	123zone.com.			
rita	Value:	ns1.example.com	۱.		
l	TTL:	1 hour			\$
rita	Comment:	You can add a co server.	mment to the record, th	nat will not be pushed to the	
	Record rev	Skip Validation.		3	
l	Date		Host	Value	
	2019-08-11	14:19:26	123zone.com.	ns1.example.com.	
	2019-08-11	14:19:22	123zone.com.	ns1.example.com.	
	2019-02-21	15:09:59	123zone.com.	ns1.example.com.	
				Close Save change	es

Add a New Record

At the top of the DNS Records page, select the desired record type, then click "Add Record".

ISv3 DNS Groups DNS Ser	vers DNS Zones DNS R	ecords	A	▼ Add Reco
ecord List				
Record Host	Record Type	Record Comment	Record Value	

Available Record Types for the Record List include the following:

- A
- A6
- AAAA
- CNAME
- CAA
- DNAME DNSKEY

- DS
- MX
- NAPTR
- NS
- PTR
- RP • SRV
- TLSASPF
- HINFO
- LOC
- TXT
- URI

Enter the record information for the record type. When done, click "Save Changes".

-	Edit NS rec	cord ×
IS :	Туре:	NS
	Host:	ex: host
	Value:	ex: ns1.example.com
	TTL:	C valu
	Comment:	You can add a comment to the record, that will not be pushed to the server.
		Add to all groups.
		Skip Validation.
		Close Save changes
pa.		PTR test2.10.\$1.\$2.\$3.test.com.

Working with Zone Records - Zone View Page

Record Types

The Zone View page supports 20 record types, as well as the ability to add a custom/arbitrary record type manually.

Available record types include the following:

- A
- A6AAAA
- CNAME
- CAA
- DNAME
- DNSKEY
- DS
- HINFO

- LOC
- MX
- NAPTR
- NS
- PTR
- RP
- SPF
- SRV
- TLSA
- TXT
- URI
- Other

OTHER Record Types

When working with DNS Zones and Records, additional record types may be manually added by selecting "Other" when adding a new record.

S64 DNS users can use record type "Other" to add "SYNTH" or "TYPE65464" type records similar to the format below:

```
$ORIGIN 30 IN TYPE65464 ${p4} PTR ${a4}.pool.example.com.
$ORIGIN 600 IN TYPE65464 ${a4} A ${a4}
$ORIGIN TYPE65464 ${p6} PTR user${a6}.my.example.com.
$ORIGIN 5 IN SYNTH user${a6} AAAA ${a6}
$ORIGIN IN SYNTH nptr-${u} NAPTR 10 20 "A" "" "" srv-${u}
$ORIGIN IN SYNTH srv-${u} SRV 10 20 1234 srv-addr-${u}
```

However, arbitrary / other record types are unable to be validated, so use with care!

Add Zone Records

From the Zone View page, under DNS Records, look for the line "Add a new ____ Record".

Select the desired record type from the dropdown list, then click "Add".

Add a New NS		
Record Type	Record Data Q	Actions
SOA	hostmaster.example.com. mail.example.com. (2019022001 172800 900 3600 86400)	
NS	host.example.com. maps to ns1.example.com	Delete Check Perms

Fill in the information for the new record, selecting options for adding to groups or skipping validation.

Edit NS ree	cord		×
Туре:	NS		
Host:	ex: host		.example.com.
Value:	ex: ns1.example.com		
TTL:			\$
Comment:	You can add a comment to server.	the record, that will not	be pushed to the
	Add to all groups.		
c	Skip Validation.		
e			
		Close	e Save changes

When done, click "Save Changes".

A Note on Quotes

When working with records (like TXT), there is no need to add quotes around the record value - ProVision will automatically add double quotes for the TXT records on Zone Push, and will also automatically use quotes to split TXT values larger than 255 characters.

If your record value contains internal quotes that you wish to keep, you may escape it by adding a backslash (\) before the quote from the "Edit Record" screen.

Examples:

In the Edit Record screen, there is no need to add quotes to the record value, as seen below:

	×
Туре:	ТХТ
Host:	test2.acctest.com.
Value:	qweqwe qweqwe
TTL:	1 hour 🗸
Comment:	You can add a comment to the record, that will not be pushed to the server.
	Skip Validation.
Record re	visions
	Close Save changes

However, if an internal quote exists that you wish to retain, escape it by using a backslash (\) before the quote(s):

		~
Туре:	ТХТ	
Host:	test4.acctest.com.	
Value:	asdsa \" wqeqwe	
TTL:	1 hour	~
Comment:	You can add a comment to the record, that will not be pushed to to server.	he //
	□ Skip Validation.	
Record re	evisions	>
	Close Save ch	anges

When done editing the record, click "Save changes".

Repeating this to create four TXT record examples, we end up with the following for test1 through test4:

ТХТ	test1.acctest.com. maps to qweqwe	Delete Check Perms
ТХТ	test2.acctest.com. maps to qweqwe qweqwe	Delete Check Perms
TXT	test3.acctest.com. maps to \"qweqw qwewq\"	Delete Check Perms
ТХТ	test4.acctest.com. maps to asdsa \" wqeqwe	Delete Check Perms

These four records become the following in the zone file once pushed (note the automatic addition of quotes around the values, and the escaped quotes in test3 and test 4):

test1.acctest.com.	3600	IN	ТХТ	"qweqwe"
test2.acctest.com.	3600	IN	ТХТ	"qweqwe qweqwe"
test3.acctest.com.	3600	IN	ТХТ	"\"qweqw qwewq\"'
test4.acctest.com.	3600	IN	тхт	"asdsa \" wqeqwe"

If you have additional questions on handling of quote characters in zone records, contact support@6connect.com.

Autogenerate Forward Zone Records

From the Zone View page, under DNS Records, look for the line "Add a new ____ Record".

Select the desired record type from the dropdown list, then click "Add".

Add a New NS Record Add		
Record Type	Record Data Q	Actions
SOA	hostmaster.example.com. mail.example.com. (2019022001 172800 900 3600 86400)	
NS	host.example.com. maps to ns1.example.com	Delete Check Perms

Enter the Host value for the record.

For the Record Value, enter the IP Address, using brackets for the last octet to denote the range of IPs.

Example: Host: h69-131-159-\$1.qncyfi Value: 69.131.159.{240-255}

Edit A reco	ord ×
Туре:	A
Host:	h69-131-159-\$1 .qncyfi .acctest.com.
Value:	69.131.159.{240-255}
TTL:	~
Comment:	You can add a comment to the record, that will not be pushed to the server.
	□ Add to all groups.
	□ Skip Validation.
	Close Save changes

and this is expanded to:

h69-131-159-240.qncyfi.acctest.com.	3600	IN	А	69.131.159.240
h69-131-159-241.qncyfi.acctest.com.	3600	IN	А	69.131.159.241
h69-131-159-242.qncyfi.acctest.com.	3600	IN	Α	69.131.159.242
h69-131-159-243.qncyfi.acctest.com.	3600	IN	Α	69.131.159.243
h69-131-159-244.qncyfi.acctest.com.	3600	IN	Α	69.131.159.244
h69-131-159-245.qncyfi.acctest.com.	3600	IN	Α	69.131.159.245
h69-131-159-246.qncyfi.acctest.com.	3600	IN	Α	69.131.159.246
h69-131-159-247.qncyfi.acctest.com.	3600	IN	А	69.131.159.247
h69-131-159-248.qncyfi.acctest.com.	3600	IN	А	69.131.159.248
h69-131-159-249.qncyfi.acctest.com.	3600	IN	А	69.131.159.249
h69-131-159-250.qncyfi.acctest.com.	3600	IN	А	69.131.159.250
h69-131-159-251.qncyfi.acctest.com.	3600	IN	А	69.131.159.251
h69-131-159-252.qncyfi.acctest.com.	3600	IN	А	69.131.159.252
h69-131-159-253.qncyfi.acctest.com.	3600	IN	А	69.131.159.253
h69-131-159-254.qncyfi.acctest.com.	3600	IN	А	69.131.159.254
h69-131-159-255.qncyfi.acctest.com.	3600	IN	А	69.131.159.255

When you are done, click "Save Changes" to complete the edit.

Autogenerate Reverse Zone Records

ProVision can be configured auto-generate IPv4 / IPv6 PTR records in reverse zones based on template.

Example IPv4 :

If the zone is named 33.44.in-addr.arpa.

Host : {100-150}.{22-24} Value : \$1-\$2-available.example.com.

The generated records on push will look like : 100.22.33.44.in-addr.arpa. IN PTR 100-22-available.example.com. 101.22.33.44.in-addr.arpa. IN PTR 101-22-available.example.com.

149.24.33.44.in-addr.arpa. IN PTR 149-24-available.example.com. 150.24.33.44.in-addr.arpa. IN PTR 150-24-available.example.com.

Example IPv6 :

If the zone is named 0.f.e.d.c.b.a.9.8.7.6.5.4.3.2.1.ip6.arpa.

Host : 0.{0-f}.{2-3}.d.c.b.a.9.8.7.6.5.4.3.2.1 Value : \$1-\$2-host.example.com.

The generated records on push will look like : 0.0.2.d.c.b.a.9.8.7.6.5.4.3.2.1.0.f.e.d.c.b.a.9.8.7.6.5.4.3.2.1.ip6.arpa. 3600 IN PTR 0-2-host.example.com. 0.1.2.d.c.b.a.9.8.7.6.5.4.3.2.1.0.f.e.d.c.b.a.9.8.7.6.5.4.3.2.1.ip6.arpa. 3600 IN PTR 1-2-host.example.com.

0.e.3.d.c.b.a.9.8.7.6.5.4.3.2.1.0.f.e.d.c.b.a.9.8.7.6.5.4.3.2.1.ip6.arpa. 3600 IN PTR e-3-host.example.com. 0.f.3.d.c.b.a.9.8.7.6.5.4.3.2.1.0.f.e.d.c.b.a.9.8.7.6.5.4.3.2.1.ip6.arpa. 3600 IN PTR f-3-host.example.com.

Autogeneration of Reverse Zone Records is also performed when generating a reverse zone from the IPAM Gadget:

Autogenerate Reverse Zone

Autogenerate a reverse zone from an IP Block by clicking on the CIDR link in the block list.

144.121.226.132/30 30 - Customer - 2018-07-16 - - NET-144 - 144.121.226.1 reverse zone: 144.121.216.132/30 Customer - - 2018-10-04 - - NET-144 - 144.121.228.128/29 29 - Customer - 2018-10-04 - - NET-144 -		QUALOTTICI			2010-00-21	INE 1 1 77
144.121.228.1 reverse zone: 144.121.216.132/30 Customer - 2018-10-04 - NET-144 - 144.121.228.128/29 29 - Customer - 2018-10-04 - - NET-144 -	144.121.216.132/30 30 -	Customer	-	-	2018-07-16	NET-144
144.121.228.128/29 29 - Customer 2018-10-04 NET-144	144.121.228.1 reverse zone: 144.121.216.132/30	Customer	-	-	2018-10-04	NET-144
	144.121.228.128/29 -	Customer	-	-	2018-10-04	NET-144

The reverse zone will be created for the block, and the Zone View page will load, displaying further information and autogenerated records.

6.121	144.in-addr.arpa.	
Test Group 2		
Push Zone Now	Schedule Push Export Zone Import Zone	
Edit the com	ment.	
Advanced Settings		
	ords	
DNS Rec		
Add a New A	Record Add	
Add a New A	Record Add Record Data Q	Actions
Add a New A Record Type SOA	Record Add Record Data Q ns.example.com. hostmaster.example.com. (2022081801 172801 900 3600 86400)	Actions
Add a New A Record Type SOA NS	Record Add Record Data Q ns.example.com. hostmaster.example.com. (2022081801 172801 900 3600 86400) 216.121.144.in-addr.arpa. maps to test.	Actions Delete Chack Perms

Import Zone Records

To import a zone file to populate record data in ProVision, go to the Zone View page for the zone. The zone must already exist in ProVision, although it may be empty

Tip

You may wish to enable "Save Import File" in Admin Settings DNS Settings prior to importing zone files, so that the file is available for later download. See Working with DNS Zones or Import DNS Zones.

Click "Import Zone" on the Zone View page.

example.com	example.com.			
Example Group	•			
Push Zone Now Schedule P	ush Export Zone Import Zone			
Edit the comment.				

A Zone Import dialog box will open. Next to **Zone File:**, click "Choose File" and select your .zone file to import. Then, select an import policy to follow.

Zone Import		×
Zone Name:	example.com.	
Zone File:	Choose File To file chosen	
Import Policy		>
• Default Records The records with th Load Balancing).	Add e same hosts but with different values will be added (useful for	
Skip records with The import will skip	adding records with hosts that already exists.	
If the import contair removed from the z	sting hosts from the zone. WARNING! Is a host that already exists in the zone, the existing records will bone and the imported record will be added.	be
	Import Zone Clo	ose

When done, Click "Import Zone".

Edit Zone Records

To edit an existing zone record, click on the record line in the DNS Records list.

The Edit Record dialog will open, allowing you to fill in record details.

Γ	Edit NS rec	ord			×
Te	Туре:	NS			
IS	Host:	someZone2.co	om.		
	Value:	ns1.test.com.			
ec	TTL:	1 hour			\$
.e m	Comment:	You can add a server.	comment to the record, tha	t will not be pushed to t	he ~
		Skip Validatio	on.		
	Record rev	visions			>
L	Date		Host	Value	
	2017-05-31	13:19:13	someZone2.com.	ns1.test.com.	
S					
				Close Save ch	anges

Fill in the Host, Value, TTL, and comment if desired.

An option exists to "Skip Validation" - check to select if you wish to bypass validation for the record.

If previous versions of the record exist, the revision log will be visible under "Record revisions".

When edits or reviewing is complete, click "Save changes", or "Close" to exit without saving.

Delete Zone Records

Delete a zone record by clicking the "Delete" button under "Actions" for the desired record entry.

Add a New A	Precord Add	
Record Type	Record Data Q	Actions
SOA	hostmaster.example.com. mail.example.com. (2019022101 172800 900 3600 86400)	
NS	host.example.com. maps to ns1.example.com	Delete Check Perms

Check a Record

Check a record for errors by clicking the "Check" button under "Actions" for the desired record entry.

Add a New A	t Record Add	
Record Type	Record Data Q	Actions
SOA	hostmaster.example.com. mail.example.com. (2019022101 172800 900 3600 86400)	
NS	host.example.com. maps to ns1.example.com	Delete Check Perms

A dialog box will appear, with details on any errors.

You may clear the error if desired, recheck, or close the box.

Attach / Detach Servers to a Zone

Under the "Attached Servers" section of the Zone View page, next to "Attach Server:", select the desired server to attach and choose the server type (Default, Master, Slave), then click the "Attach" button.

Attached Servers	5			
Server Name	Server Backend	Server Type	Server Status	Actions
Attach server : Selec	t Server 💠 Use Default Typ	pe (Recommended)		

To detach a server from a zone, look for the server under the "Attached Servers" list, then click "Detach" under actions for that server.

Restore a Zone / Record from Backup

If a zone has had changes successfully pushed, a "Zone Backups" section appears near the bottom of the page, showing the date and time of the backup.

Zone Backups	♥
Backup Date	
2019-02-21 13:17:34	
2019-02-20 14:19:06	
2019-01-28 13:15:05	

To view details, or restore the zone to the previous version, click on the row of the desired date/time backup, and the "Zone Restore" module will open.

Zone Restore	×
Restore someZone2.com. Backup date: 2017-05-31 14:00:04 By clicking on the individual records you are able to restore only specific records from the zone. Otherwise the whole zone will be restored.	
Record Type	Record Data
NS	someZone2.com. maps to ns1.test.com.
2 m	Close Restore zone

From here, you may restore individual records by clicking on them, or restore the entire zone by clicking the "Restore Zone" button.

To exit without saving, click the "Close" button.

Additional Information

For more information on DNSv3 tasks, see:

- Working with DNS ZonesDNS Zones Overview

- DNS Administration
 Working with DNS Servers
- Approvals