

# Working with DNS Zones - Common Tasks

## Working with DNS Zones

DNSv3

DNS Groups

DNS Servers

DNS Zones

DNS Records

Zone List

Add Zone

Forward Zones

Reverse Zones

Catalog Zones

Zone Name	Last Pushed	Last Modified	Records	Zone Status	Actions
0.1.1.in-addr.arpa.	01/28/2019 15:02:34	02/21/2019 17:10:47	0		<div>DeletePushCheckPerms</div>
0.1.in-addr.arpa.		02/27/2019 18:47:47	0		<div>DeletePushCheckPerms</div>
0.10.in-addr.arpa.	01/28/2019 15:02:35	12/05/2018 13:04:30	0		<div>DeletePushCheckPerms</div>
0.2.10.in-addr.arpa.	08/12/2019 16:15:12	08/07/2019 17:18:15	2		<div>DeletePushCheckPerms</div>
0.29.10.in-addr.arpa.		02/19/2019 11:26:10	2		<div>DeletePushCheckPerms</div>
0.4.10.in-addr.arpa.	01/28/2019 15:02:35	01/08/2019 14:25:25	1		<div>DeletePushCheckPerms</div>

This page details some common DNS tasks performed from the [DNS](#) tab.

DNS Zones are accessed under the [DNS](#) tab, [DNS Groups](#) or [DNS Zones](#) sub-tabs. Separate zone lists exist under each DNS Group.

DNS Records are accessed from either the View Zone page (for records under that zone), or globally under the [DNS Records](#) sub-tab. For Details on working with records in either area, see [Working with DNS Records](#)

For a more general overview DNS Groups and Editing Zones, see [Working with DNS Groups](#) and [DNS Zones Overview](#). This page focuses on specific DNS zone tasks.

### DNSv3 Zone Directory

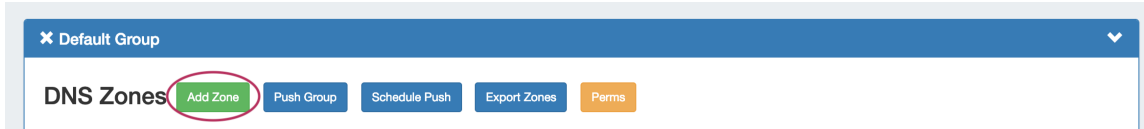
In DNSv3, zone files in the server directory will have a number appended, similar to 'example.com.\_123.zone'. This number is the Resource ID associated with the zone, and is used in ProVision to identify the zone and differentiate zones that may have the same name, but under different DNS Groups. This append does not affect any zone functionality otherwise.

- [Working with DNS Zones](#)
- [Working with DNS Zones](#)
  - [Add a Zone](#)
    - [Optional Fields](#)
  - [Edit a Zone \(View Zone page\)](#)
    - [Add a comment](#)
    - [Edit Advanced Settings](#)
  - [Move Zones to a Different Group](#)
  - [Pushing Zones](#)
    - [Push Now \(from Group List\)](#)
    - [Push Now \(from View Zone page\)](#)
    - [Schedule Push \(from View Zone page\)](#)
    - [Schedule Push \(Admin Scheduler\):](#)
    - [Group Push:](#)
    - [Server Push:](#)
  - [Export a Zone](#)
  - [Import Zone](#)
  - [Delete a Zone](#)
  - [Additional Information:](#)

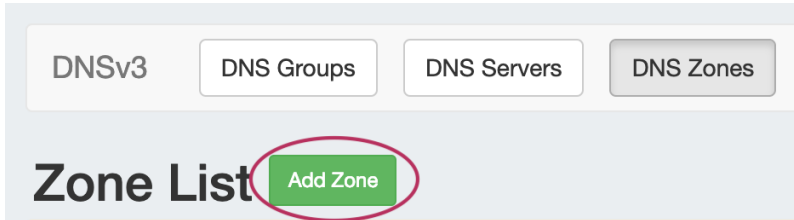
# Working with DNS Zones

## Add a Zone

Add a new zone while in the **DNS Groups** tab by selecting "Add Zone" under the desired Group.



You may also add new zones from the **DNS Zones** tab, by clicking "Add Zone" next to **Zone List**.



The "Create New Zone" dialog will pop up.

A screenshot of the 'Create New Zone' dialog box. It contains the following fields and options: 'Zone Name' with a text input field (placeholder: 'ex: example.com.'), 'DNS Group' with a dropdown menu (selected: 'templates'), 'Parent Resource' with a dropdown menu (selected: 'templates'), 'Populate with records' section containing a 'Populate type' dropdown menu (selected: 'Empty Zone'), and an 'Optional Fields' section with a right-pointing arrow. At the bottom right, there are two buttons: 'Close' and 'Save changes'.

Enter the name of your new zone and select a parent resource, if desired. The DNS group will already be selected.

DNSv3 allows you to populate the zone with three options:

- Empty Zone - create the zone as an empty zone, and manually create records
- Populate by AXFR Transfer - transfer zones from an outside server
- Clone an existing zone - use an existing zone as a template, and manually edit as needed

From there, you may either save your changes and complete zone creation, or add in optional field details.

## Optional Fields

Expand the "Optional Fields" section by clicking on the chevron (>) or the "Optional Fields" header.

Optional Fields >

**Zone Host:** ex: hostmaster.example.com.

**Zone Email:** ex: mail.example.com.

**Zone Serial:** ex: 2003080800

**Zone Refresh:** ex: 172800

**Zone Retry:** ex: 900

**Zone Expiry:** ex: 1209600

**Zone Minimum:** ex: 86400

**Zone TTL:** 1 hour

Close Save changes

Under this section, add in optional values for Zone Host, Email, Serial , Refresh, Retry, Expiry, or TTL.

When finished, click "Save Changes".


To exit without saving, simply click "Close".

## [Edit a Zone \(View Zone page\)](#)

Zones may be editing by clicking on the Zone name in any zone list in which it appears - the **DNS Zones** Zone List, **DNS Groups** Zone List, or zones listed as attached to a server under **DNS Servers**.

Clicking on the zone name from any zone list opens up the View Zone page.

example.com.

Example Group 

Push Zone Now Schedule Push Export Zone Import Zone

Edit the comment.

Resources Awaiting Approval >

Advanced Settings >

### DNS Records

Add a New  Record

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	<input type="button" value="Delete"/> <input type="button" value="Check"/> <input type="button" value="Perms"/>

### Attached Servers

Server Name	Server Backend	Server Type	Server Status	Actions
Servers inherited from "Example Group"				
BIND 6connect QA Server	ISCBIND	master		<input type="button" value="Push"/> <input type="button" value="Perms"/>

Attach server :

Zone Backups >

Show current zone export >


Here, comments may be added, records added or updated, servers attached to the zone, advanced settings edited, backups restored or the zone pushed / exported. For a general interface overview of the View Zone page, see [DNS Zones Overview](#).

For detailed information on working with DNS Records from the View Zone page Record List or the **DNS Records** sub-tab, see [Working with DNS Records](#).


## Add a comment

To add a comment to a zone, click anywhere inside the comment area and begin typing. The comment will be saved when an area outside of the comment box is clicked, deselecting the comment area.

example.com.

Example Group 

Push Zone Now Schedule Push Export Zone Import Zone

Edit the comment. 

## Edit Advanced Settings

Open the zone "Advanced Settings" section by clicking on the header or the expansion arrow (>).

Under this area, you can change settings such as Parent Resource, DNSSEC, Lists, Zone permissions, and free lines.

Advanced Settings

Parent Resource:

Example Group

The new zone resource will be a child of the Parent Resource.

Enable DNSSEC:

OFF

Enable Dynamic Updates:

OFF

This feature is using the dynamic update functionality of the DNS Server. Every record that you modify/remove/create will be updated on the servers automatically without pushing the zone if the queue is not enabled.

Disable Master-Slave handling:

OFF

By default ProVision handles the master and slave specific options in the zone automatically. By enabling this option ProVision will not add specific configuration options to the zone depending on the server configuration.

Also-Notify List:

ex. 192.168.3.0; 10.10.3.0/24

The list will be added to the also-notify list on the DNS servers that support this option.

Allow Update List:

ex. 192.168.3.0; 10.10.3.0/24

The list will be added to the allow-update list on the DNS servers that support this option.

Allow Transfer List:

ex. 192.168.3.0;

The list will be added to the allow-transfer list on the DNS servers that support this option. On exporting a zone to a master server, the slaves are automatically added !

Allow Notify List:

ex. 10.1.0.15; 172.28.32.7;

The list will be added to the allow-notify list on the DNS servers that support this option. On exporting a zone to a slave server, the masters are automatically added !

Zone Permissions :

Set Permissions

The Zone Permissions can be set by "Set Permissions" button above. This will affect which user groups can view and edit the zone.

Free Lines (Dangerous):

The content inside this field will be append to the zone section of the server configuration. Please be very careful with this field as it can cause configuration errors ! They are currently valid only for ISC Bind.

Server Specific Free Lines (Dangerous):

BIND 6connect QA Server

Add new

Save

Edit fields as needed, and click "Save" when done.

## Move Zones to a Different Group

Zones may be moved to a different Group than the one created under, by clicking the "Move" button in the zone's Actions menu.

Example Group

DNS Zones

Add Zone

Push Group

Schedule Push

Export Zones

Perms

Forward Zones

Reverse Zones

Zone Name	Last Pushed	Last Modified	Records	Zone Status	Actions
6connect.com.	01/08/2019 14:49:12	01/08/2019 14:48:53	3		<div>Delete</div> <div>Push</div> <div>Move</div> <div>Check</div> <div>Perms</div>
6connectqa.com.		01/08/2019 14:49:46	0		<div>Delete</div> <div>Push</div> <div>Move</div> <div>Check</div> <div>Perms</div>
example.com.		01/08/2019 15:22:24	0		<div>Delete</div> <div>Push</div> <div>Move</div> <div>Check</div> <div>Perms</div>

The "Move Zone" modal will appear - select the new Group to move to the zone under, and click "Save Changes" to complete.

Move zone between groups

Current Group:

Default Group

New Group:

123 Lab Group

Close

Save changes

## Pushing Zones

Zones may be pushed individually ("Push Zone Now"), as a scheduled future push ("Schedule Push"), or pushed as part of a Group or Server Push.

### Push Now (from Group List)

To immediately push a single zone, navigate to the DNS Group the zone is under, then click the "Push" button in the Actions column for the zone.

You may also look for the zone in the **DNS Zones** tab Zone List, and then likewise, click the "Push" button in the zone row.

Example Group

DNS Zones

Add Zone

Push Group

Schedule Push

Export Zones

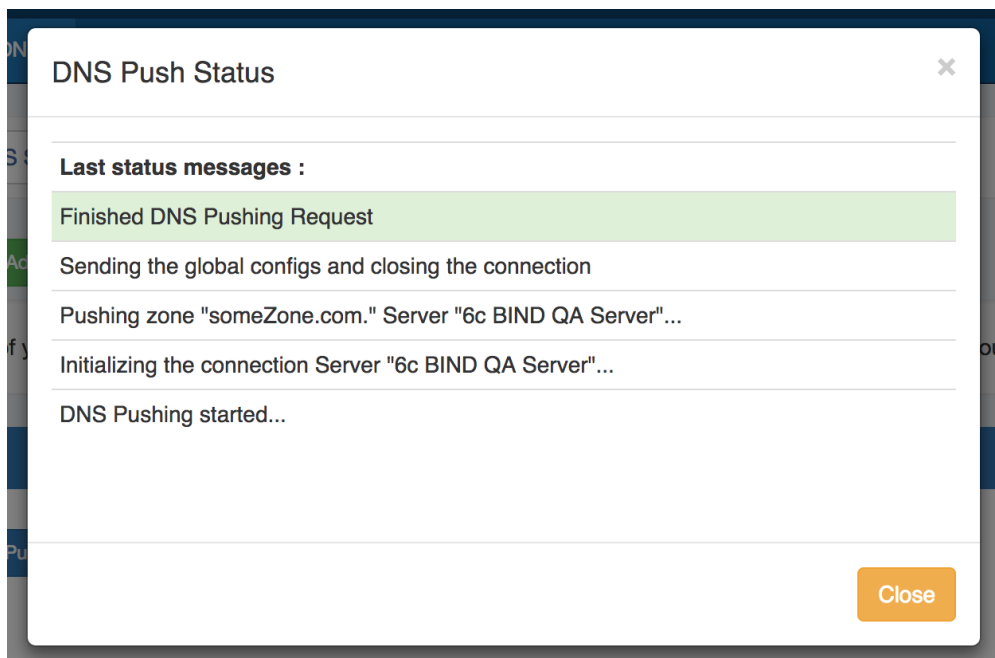
Perms

Forward Zones

Reverse Zones

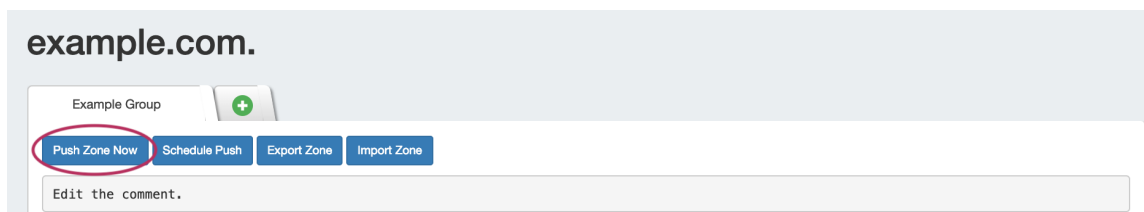
Zone Name	Last Pushed	Last Modified	Records	Zone Status	Actions
6connect.com.	01/08/2019 14:49:12	01/08/2019 14:48:53	3		<div>Delete</div> <div>Push</div> <div>Move</div> <div>Check</div> <div>Perms</div>
6connectqa.com.		01/08/2019 14:49:46	0		<div>Delete</div> <div>Push</div> <div>Move</div> <div>Check</div> <div>Perms</div>
example.com.		01/08/2019 15:22:24	0		<div>Delete</div> <div>Push</div> <div>Move</div> <div>Check</div> <div>Perms</div>

The "Push Status" modal will appear, showing status and any errors that occur. When a successful zone push is complete, a green "Finished DNS Pushing Request" message will appear, and the window may be closed.



## Push Now (from View Zone page)

The View Zone page, accessed from clicking on the zone name in the Group zone list, includes a "Push Zone Now" button that immediately attempts to push the zone to the attached server(s).

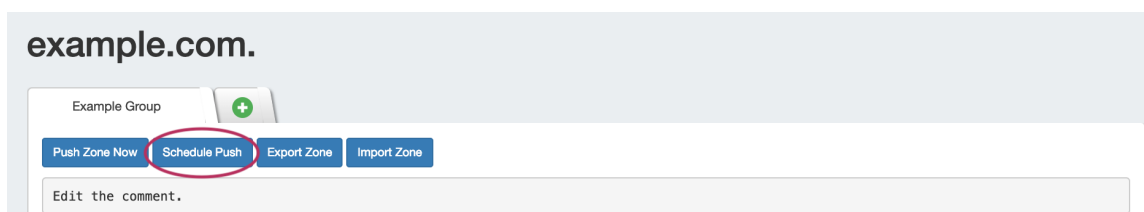


Click on "Push Zone Now", and the "Push Status" modal will appear, showing status and any errors that occur.

When a successful zone push is complete, a green "Finished DNS Pushing Request" message will appear, and the window may be closed.

## Schedule Push (from View Zone page)

The View Zone page includes an option to schedule a zone push, similar to scheduling a Group push.



Click "Schedule Push" for the zone, then select a date, time (12 hour, with AM / PM toggle), add a notification email address, and click "Save changes".

Push Scheduler

Pick date and time (US/Pacific):

<

February 2019

>

Su	Mo	Tu	We	Th	Fr	Sa
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	1	2
3	4	5	6	7	8	9

^

02

v

:

^

25

v

PM

Notification Email:

something@example.com

Close

Save changes

The Scheduled task will be shown in both the Zone View page (under "Scheduled Tasks") and the [Admin Scheduler](#) task list.

Scheduled Tasks			
Task Name	Last Run	Repeat Time	Actions
Scheduled Push: someZone.com.		One time on 2017-06-02 at 11:05 PDT	<a href="#">Delete</a>

The task may be deleted prior to running by clicking the "delete" button, but will automatically be removed once completed.

## Schedule Push (Admin Scheduler):

Scheduled zone and server pushes may also be set up by Admin users from the [Scheduler](#) tab. For more information, see the [Scheduler Tab](#) documentation.

## Group Push:

All zones contained in a DNS Group may be pushed at the same time, by pushing the DNS Group.



For information on working with DNS Groups, including performing a manual or scheduled Group push, see [Working with DNS Groups - Pushing a Group](#).

## Server Push:

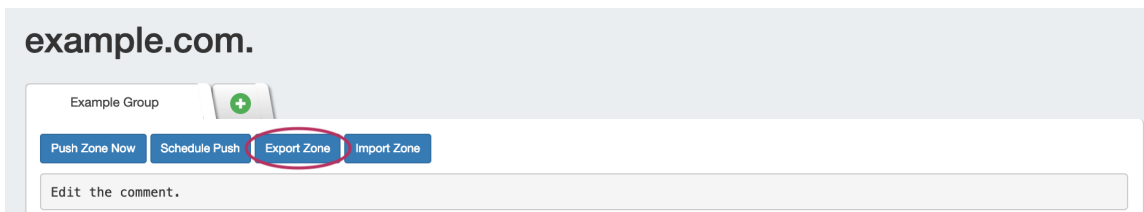
Admin users may push all zones on a server from the [DNS](#) Tab -> **DNS Servers** page.

For information on working with DNS Servers, including performing a manual or scheduled server push, see [Working with DNS Servers - Pushing a Server](#).

## Export a Zone

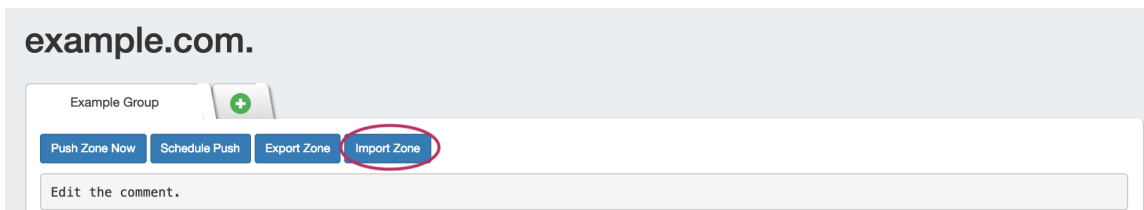
Individual zones may be exported to a .zone file by clicking the "Export Zone" button on the View Zone page.

Individual .zone files may later be compressed into a .zip, and used with [ProVision's BIND DNS Zone Upload / Import tool](#).



## Import Zone

A .zone file (.zone) may be imported into a ProVision zone to populate record data. Click "Import Zone" on the View Zone page.



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

No file chosen

Import Policy

☒ Default Records Add  
 The records with the same hosts but with different values will be added ( useful for Load Balancing ).

☐ Skip records with the same host  
 The import will skip adding records with hosts that already exists.

☐ Remove the existing hosts from the zone. **WARNING!**  
 If the import contains a host that already exists in the zone, the existing records will be removed from the zone and the imported record will be added.

Import Zone

Close

When done, Click "Import Zone".

## Delete a Zone

Users with resource delete permissions over the zone may delete a zone record by clicking the "Delete" button under "Actions" for the desired zone entry in any Zone List.

Example Group

DNS Zones

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6connect.com.	01/08/2019 14:49:12	01/08/2019 14:48:53	3		<div>Delete</div> <div>Push</div> <div>Move</div> <div>Check</div> <div>Perms</div>
6connectqa.com.		01/08/2019 14:49:46	0		<div>Delete</div> <div>Push</div> <div>Move</div> <div>Check</div> <div>Perms</div>
example.com.		01/08/2019 15:22:24	0		<div>Delete</div> <div>Push</div> <div>Move</div> <div>Check</div> <div>Perms</div>

## Addiitonal Information:

For more information on working with DNS Zones, Groups, and Servers, see the following sections:

- DNS Tab
- Working with DNS Groups
- Working with DNS Records

- [Editing DNS Zones \(The View Zone Page\)](#)
- [DNS Administration](#)
- [Import DNS Zones](#)
- [Approvals](#)