

DNS Administration

DNS Administration

The screenshot shows the DNS Administration interface. At the top is a navigation bar with tabs: Dashboard, Resources, DNS (selected), DHCP, Servers, IPAM, Peering, Reporting, and Global Commander. A search bar and user profile icon are on the right. Below the navigation bar is a sub-tab bar with: DNSv3, DNS Groups, DNS Servers (selected), DNS Zones, and DNS Records. An 'Add Server' button is on the right. The main content area is titled 'DNS Server List' and contains a table with the following data:

Server Name	Server Backend	Server Type	Server Status	Actions
BIND DNS QA Server	ISCBIND	master		Delete Push Perms
RHEL8 6cDNS Server Managed DNS	PVDNS	master	->Pending changes !	Delete Push Perms
Test Server 1	ISCBIND	master		Delete Push Perms
Fake S64 Server 1	SECURE64X86	master		Delete Push Perms
Approvals Test Server	ISCBIND	master		Delete Push Perms
Ubuntu DNS Managed DNS	PVDNS	master		Delete Push Perms

At the bottom of the table is a pagination control: Page : « 1 » Go.

DNS Administration in DNSv3 is primarily handled under the [DNS](#) tab **DNS Servers** sub-tab, with DNS Administrative settings available under the [Admin Settings](#) page.

Users with resource "read" permissions may view DNS Server information, however only those with either Admin permissions or granted group-level server permissions can manage DNS server creation, edits, and deletion.

Additional DNS Admin tasks occur in other areas, and not all management tasks require Admin-level permissions - some only require appropriate resource permissions on the DNS Groups, Zones, and servers involved. See additional sections on this page for more detailed information:

- [DNSv3 Overview](#)
 - [DNSv3 Permissions](#)
 - [Permission Shortcut Button \("Perms"\)](#)
 - [DNS Approvals](#)
 - [DNSv3 Administrative Tasks](#)
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 - [DNS Server Statistics](#)
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- [DNS Export Functions](#)
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- [Importing DNS Zones:](#)
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DNSv3 Overview

DNSv3 reorganizes the DNS system into a more unified and accessible interface, combining both admin and non-admin DNS tasks together under the [DNS](#) tab.

In DNSv3, zones are gathered under DNS Groups, servers are attached to those Groups, and Nameservers, Default SOA values, and ACLs are managed at a per-Group level.

Users can then view and manage Groups, individual zones, default SOA values, ACLs, attach servers, and perform pushes all on the same page.

DNSv3 Zone Name Response Change

Note: In DNSv3, zone name responses will enforce and return a trailing period (i.e., "example.com" will be converted and returned as "example.com.").

DNSv3 is designed to reflect [RFC 1035 standards](#) for valid data formats and will return error messaging for data not meeting those formats.

DNSv3 Permissions

DNSv3 incorporates DNS zones and Groups into the Resource System. Zones and Groups are Resources just like Customers, Servers, Routers, or Contacts (See [Resource Concepts](#) and [The Resource System](#) for a more detailed explanation of Resources).

This allows for DNS zones and Group permissions to be managed similarly to other resources, where users with Resource permissions (Create / Read / Update / Delete) on the parent resource of the DNS Group can create groups and zones, manage those groups and zones, push (if a server is attached), and delete.

A user with full Resource permissions on a DNS Server, as well as the parent resource of a Group, may view and attach that server to a Group.

Users with resource "read" permissions may view DNS Server information, however only those with either Admin permissions or granted group-level server permissions can manage DNS server creation, edits, and deletion.

For more information on setting up permissions groups, see [Users & Permissions](#).

Permission Shortcut Button ("Perms")

Throughout DNS, a shortcut permissions button ("Perms") is available on a per-item level, accessible only to Admin users.

This permissions button allows for direct, point-of-use permissions adjustments to individual DNS Groups, Servers, Zones, and Records. It uses the same CRUD permissions and groups available in the Admin Users tab, but removes the need to remember and search for the DNS item name.

To open the Change Resource Permissions module, click on the "Perms" Button for any DNS item.

Zone Name	Last Pushed	Last Modified	Records	Zone Status	Actions
123zone.com.		02/13/2019 11:59:32	1		Delete Push Move Check Perms

Edit the CRUD permissions for any user group by clicking the checkbox for the desired group and permission type.

When done, click "Save Changes". The permission changes will also be reflected in the Admin [User](#) tab Group settings.

Change Resource Permissions

Resource Permissions

UserGroup Name	Read	Create	Update	Delete
Global Admins	☒	☒	☒	☒
Global Read-Only	☒	☐	☐	☐
Test Group A	☐	☐	☐	☐
Global Group 2	☒	☒	☒	☒
Test Group B	☐	☐	☐	☐

You can also restrict certain actions for the User Group in [Approvals - Actions & Permissions](#).

Close

Save changes

DNS Approvals

The Approvals module stores and queues DNS actions made by selected User Groups, and sends those actions to a Pending Changes list for administrative review. Later, an administrator (or combination of administrators) can approve or reject these stored actions.

Approvals is primarily set up and managed via the Admin [Approvals](#) Tab. See the [Approvals](#) for details on setting up and using Approvals from the Administrative viewpoint.

In the [DNS](#) Tab, a "Resources Awaiting Approval" module will display near the top of DNS Groups, DNS Zone Lists, and DNS Servers pages, if a change has been submitted on that page that is pending approval.

DNSv3

DNS Groups

DNS Servers

DNS Zones

DNS Records

Add Group

DNS Groups List

DNS Groups help you to organize all of your Zones and Servers together into a single place. With Groups, you are able to push whole group configurations.

Resources Awaiting Approval

Approval Action	Name	Resource Data	Approval Info	Actions
Add	TestGroupAdd	Details Resource of type (dnsview)	Submitter : test3@6connect.com	Approve Reject
Push	Default Group	Details Resource of type (dnsview)	Submitter : test3@6connect.com	Approve Reject

Page :

< 1 >

[Go](#)

Default Group

ID: 2115

DNS Zones

[Add Zone](#) [Push Group](#) [Schedule Push](#) [Export Zones](#) [Move Zones](#) [Perms](#)

Forward Zones

Reverse Zones

Catalog Zones

Zone Name	Last Pushed	Last Modified	Records	Zone Status	Actions
actioncarrental.net.	01/08/2024 13:57:28	09/25/2020 23:05:27	11		Delete Push Move Check Perms
alarmsupply.net.	01/08/2024 13:57:28	07/24/2017 20:04:06	12		Delete Push Move Check Perms
allvalleyas.com.	01/08/2024 13:57:35	01/03/2024 19:10:17	9		Delete Push Move Check Perms

Users who submitted a change for approval will see the details of their change request in this module.

Admin users with permissions to approve or reject the request will have the option to Approve or Deny the change.

DNSv3 Administrative Tasks

Admin-only tasks in DNSv3 include setting DNS Globals, importing zones, scheduling pushes, managing DNS Servers, and managing DNS Approvals.

These tasks may be accessed in the following areas:

- DNS Global Settings: [Admin Settings](#) page.
- Importing DNS Zones: the [Data Import](#) tab, see [Import DNS Zones](#).
- Scheduling DNS Pushes:
 - May be set up from the [Scheduler Tab](#) or,
 - Set by server from the [DNS Servers](#) page, or
 - Set by DNS Group from the [DNS Groups](#) page, or
 - Set by individual zone from the [View Zone](#) page
- Managing DNS Servers: The [DNS Servers](#) page
- Approvals: The [Approvals Tab](#).

Tasks such as working with zones, DNS Groups, adding ACLs, attaching servers to Groups, and manually pushing zones do not require Admin permissions.

Instead, these tasks simply require that the user be included in a [User Group](#) that has appropriate permissions (either direct, or inherited) on the DNS zones, Groups, and servers involved.

Manage DNS Servers

Adding, configuring, and managing DNS Servers occurs in the Admin-only **DNS Servers** page under the [DNS](#) Tab.

Supported DNSv3 server types include:

- ISC BIND

- Secure 64 (Authority, x86 Authority, KNOT Authority, Cache, Signer)
- PowerDNS (BIND and MySQL)
- InfoBlox
- Knot DNS
- NSD
- NS ONE
- DynDNS (Beta)
- DNSMadeEasy
- Cloudflare
- AWS Route53 (Beta)
- IRONDNS
- 6connect AnyCast
- Dummy (a fake server entry used for servers outside of ProVision access, in order to manage master / slave configurations)

Some server types may require outside subscriptions or accounts.

For detailed information on adding, editing, and deleting DNS Servers, see [Working with DNS Servers](#).

ACLs / Views

In DNSv3, Views may be created by selecting the "Export Groups as Views" toggle and selecting a DNS Group under the server details sections "DNS Group Settings".

DNS Group Settings

Multiple Groups Support: ☒

Check this option if you want to enable the support of different DNS Groups to be exported as Views. **Danger !** In case the server doesn't support Views you must take care to not have duplicated zone names in the groups !

Export Groups as Views: ☒

If this option is checked the Groups will be exported as Views on push. (It works only on servers that support Views like ISC BIND)!

Default Group for Direct Zones:

Default Group

The zones that are directly connected to the server are going to be added to this group.

Attach to Groups:

The server will be attached to the list of the groups and the zones from the groups are going to be exported automatically.

ACLs are managed on a per-DNS Group level, and may be added, edited, or removed by any user with appropriate resource permissions on the DNS Group.

Applied ACLs

Group ACL settings are applied if the Group is used as View for servers that support Views.

ACL Name	ACL Networks	Actions
Example List	10.10.3.0/24	Detach
Example List2	10.10.3.0/24,192.0.0.0/24,198.55.45.0/26	Detach

Attach ACL :

For details on working with ACLs, see [Configuring Split Horizon and Views](#).

DNS Zone Transfers (Pushes)

In DNSv3, zones may be pushed manually or scheduled for a future time, and may be performed for a single zone, all zones in a DNS Group, or all zones on a server.

Scheduling DNS pushes requires administrative access, but manual pushes only require permissions on the DNS Group / DNS Zone, and the server(s) attached.

Manual DNS Pushes:

Manual pushes may be performed from the following locations:

- Single Zone: From the DNS Groups Zone list "Push" button.
- Single Zone: From the DNS View Zone page "Push Zone Now" button.
- Group: From the DNS Groups Zone list "Push Group" button.
- Server: From the DNS Servers list "Push" button.
- Server: From the DNS Server Settings page "Push Zones" button.

For details on performing pushes, see the following sections:

- [Working with DNS Groups](#)
- [Working with DNS Zones](#)
- [Working with DNS Servers](#)

Scheduled DNS Pushes:

Scheduled pushes may be performed from the following locations:

- May be set up from the [Scheduler Tab](#) for single zones, all zones in a Group, or all zones on a server.
- Set by server from the [DNS Servers page](#), or
- Set by DNS Group from the [DNS Groups page](#), or
- Set by individual zone from the [View Zone page](#)

DNS Record Types

ProVision supports 18 standard record types, as well as the ability to add a custom/arbitrary record type manually.

Available record types include the following:

- A
- A6
- AAAA
- CNAME
- CAA
- DNAME
- DNSKEY
- DS
- MX
- NAPTR
- NS
- PTR
- RP
- SRV
- TLSA
- SPF
- HINFO
- TXT
- 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!

Any user with appropriate resource permissions on the DNS Zone / DNS Group may add, edit, or delete DNS Records.

See [Working with DNS Zones](#) for detailed information on managing DNS Records.

Global DNS Settings (Local Installation Only)

DNS Global Settings is accessible from the [Admin Settings](#) page by users with Admin level permissions.

DNSSEC Settings

Admin Settings Application Authentication **DNS** DHCP Peering Templates Scanning & Discovery Managed Servers

DNS Global Settings

- DNSSEC Settings**
- Dynamic Updates
- Backup Settings
- Import Settings
- Push Settings
- DNS Cache Settings
- DNS Server statistics
- Catalog Zone Settings

Enable DNSSEC local signing (Testing Purposes Only): ☒

By enabling DNSSEC local signing, ProVision will sign the zones with DNSSEC support on push. The keys are generated and saved locally. This feature is intended for testing purposes only.

Sign zones by dnssec-tools: ☐

ProVision will use the zonesigner from dnssec-tools to sign the zones. Dnssec-tools can be found [here](#)

Sign zones by ISC Bind Utilities (Recommended): ☐

ProVision will use the ISC BIND Utilities to sign the zones.

dnssec-dsfromkey Path:

ex: /usr/sbin/dnssec-dsfromkey

Path to the dnssec-dsfromkey tool used for generating DS records.

Save Changes

If using DNSSEC, select whether to enable DNSSEC local signing, or sign zones by dnssec-tools, then enter the following information:

Sign zones by ISC BIND Utilities: Select whether to use ISC BIND utilities to sign zones.

dnssec-dsfromkey path : Enter the dnssec-dsfromkey path that will be used for DNS. Required in all cases.

Additional Entropy

If delays occur due to lack of available entropy on servers, see the following article on how to set up additional entropy using haveged here:

<https://www.digitalocean.com/community/tutorials/how-to-setup-additional-entropy-for-cloud-servers-using-haveged>

DNS Dynamic Update Settings

DNS Global Settings

DNSSEC Settings

Dynamic Updates

Backup Settings

Import Settings

Push Settings

DNS Cache Settings

DNS Server statistics

Catalog Zone Settings

Dynamic Update Timeout:

ex: 5

Timeout for DDNS (defaults to 5 seconds).

Increase SOA Zone Serial on update:

OFF

By default after Dynamic Update, the zone is queried and updates the serial from the server, if the option is enabled the serial is increased automatically.

Force TCP Update:

OFF

If enabled all DDNS requests will be over TCP.

Dynamic Update via nsupdate tool:

OFF

By default ProVision is using internal implementation for DNS Dynamic Update. You can switch the dynamic updates to use the "nsupdate" tool.

Enable DDNS Queue on failure

OFF

If enabled on DDNS error, a queue record will be automatically created.

Clear DDNS Failure Queue

Execute Clear

By clicking the button, the current failure queue will be cleaned.

Save Changes

Dynamic Update Timeout: Timeout for DDNS (the default is 5 seconds).

Increase SOA Zone Serial on update: Toggle to "On" if you wish the zone serial to be increased automatically.

Force TCP Update: If enabled all DDNS requests will be over TCP.

Dynamic Update via nsupdate: Toggle to "On" if you wish to use Dynamic Updates via nsupdate, instead of ProVision's internal implementation.

Enable DDNS Queue on failure: Toggle to "On" if you wish to enable the automatic creation of a queue record on DDNS error.

Clear DDNS Failure Queue: Clears the current failure queue.

DNS Backup Settings

DNS Global Settings

DNSSEC Settings

Dynamic Updates

Backup Settings

Import Settings

Push Settings

DNS Cache Settings

DNS Server statistics

Catalog Zone Settings

Records Limit:

ex: 100

If the records count of a zone exceed the limit above, the zone backups on push will be omitted..

Save Changes

Records Limit : The limit for the number of records a zone may have for a zone to process a backup. If the records count exceed this number, zone backups will be omitted at zone push.

DNS Import Settings

DNS Global Settings

DNSSEC Settings

Dynamic Updates

Backup Settings

Import Settings

Push Settings

DNS Cache Settings

DNS Server statistics

Catalog Zone Settings

Keep Import File:

☐ OFF

If enabled it will keep the zone import file inside the zone.

Save Changes

Keep Import File: Saves DNS zone import files to the zone's "Zone Backups and Attached Files" area, for later download. Optional.

Push Settings

DNS Global Settings

DNSSEC Settings
Dynamic Updates
Backup Settings
Import Settings
Push Settings
DNS Cache Settings
DNS Server statistics
Catalog Zone Settings

Continue Push on Error
OFF

If enabled, on push ProVision if there is an error with some of the servers, the push will continue with the rest of the servers.

Enable DNS Push Lock
OFF

If enabled, on push ProVision will check whether there is an ongoing push. An error will be thrown unless Enable DNS Push Queue is also selected.

Enable DNS Push Queue
OFF

If enabled on push ProVision won't throw an error, but will add the push to a queue. The "DNS Queue Push" task must be created in the scheduler tab to run at the desired interval for the queue to be executed. [Click here to create or update this task in the Scheduler Tab](#).

Enable Lock on Dynamic Updates
OFF

If enabled on DDNS operation, ProVision will lock the servers for a regular push.

Maximum timeout for Pre/Post command execution in seconds:

Clear Server Locks
Execute Clear

By clicking the button, it will clear the lock state of the servers. You can use this action in case of failure and a server is stuck in a locked state.

Clear Push Queue
Execute Clear

By clicking the button, clears the current push queue.

Save Changes

Continue Push on Error: If enabled, if there is an error on push with a subset of the servers, ProVision will continue to push the remaining non-erroring servers.

Enable DNS Push Lock: If enabled, on push ProVision will check whether there is an ongoing push. An error will be thrown unless Enable DNS Push Queue is also selected.

Enable DNS Push Queue: If enabled, on push ProVision won't throw an error, but will instead add the push to a queue. The "DNS Queue Push" task must be created in the scheduler tab to run at the desired interval for the queue to be executed.

Enable Lock on Dynamic Updates: If enabled on DDNS operation, ProVision will lock the servers for a regular push.

Maximum Timeout for Pre/Post Command: Enter the number of seconds for maximum timeout.

Clear Server Locks: Clears the lock state of the servers. You can use this action in case of failure, and a server is stuck in a locked state.

Clear Push Queue: Clears the current push queue.

DNS Cache Settings

DNS Global Settings

DNSSEC Settings

Dynamic Updates

Backup Settings

Import Settings

Push Settings

DNS Cache Settings

DNS Server statistics

Catalog Zone Settings

Enable DNS Cache for Modules and Group

ON

If enabled on push ProVision will cache the Servers and Views in advance. It will improve push performance if you do not have many servers directly attached to the zones.

Enable DNS Cache for Zones per Group

ON

If enabled on push ProVision will cache the Zones Views Linkage. It will improve push performance if you have many zones.

Save Changes

Enable DNS Cache for Modules and Group: If enabled, on push ProVision will cache the Servers and Views in advance. Improves push performance, if you do not have many servers directly attached to the zones.

Enable DNS Cache for Zones per Group: If enabled, on push ProVision will cache the Zones Views Linkage. Improves push performance, if you have many zones.

DNS Server Statistics

DNS Global Settings

DNSSEC Settings

Dynamic Updates

Backup Settings

Import Settings

Push Settings

DNS Cache Settings

DNS Server statistics

Catalog Zone Settings

Enable DNS Server statistics for snmp

OFF

If enabled it will gather information about zone pushes for each server managed by ProVision.

Save Changes

Enable DNS Server statistics for snmp: If enabled, it will gather information about zone pushes for each server managed by ProVision.

Catalog Zone Settings

DNS Global Settings

DNSSEC Settings

Dynamic Updates

Backup Settings

Import Settings

Push Settings

DNS Cache Settings

DNS Server statistics

Catalog Zone Settings

Catalog Zone Metadata Default Values

The values below will be used to prefill the Metadata Values in the UI when you create a new ZONE record.

Masters List:

ex. 10.1.0.15 10.1.0.16

This is a default value for the Masters List Metadata on creating a new ZONE record

Allow Query List:

ex. 1:10.0.0.1/24

This is a default value for the Allow Query List Metadata on creating a new ZONE record

Allow Transfer List:

ex. 11:10.0.0.1/32 1:10.0.0.0/24

This is a default value for the Allow Transfer List Metadata on creating a new ZONE record

Save Changes

Masters List: The default value for the Masters List Metadata on creating a new zone record.

Allow Query List: The default value for the Allow Query List Metadata on creating a new zone record.

Allow Transfer List: The default value for the Allow Transfer List Metadata on creating a new zone record.

DNS Export Functions

Exporting Zones

Individual Zones:

DNS zones may be exported individually from the zone's View Zone page "Export Zone" button, by any user with appropriate zone permissions (see: [DNS Zones Overview](#)).

Zones in a DNS Group:

All zones under a DNS Group may be exported from the DNS Group "Export Zones" button, by any user with the appropriate group permissions (see: [Working with DNS Groups](#)).

Zones directly connected to a server:

Zones directly connected to a server may be exported by Admin users from the DNS Server Details page, under the section "Zones connected directly to the server".

Expand the module by clicking the (>) arrow, and then click the "Export Zones" button.

Zones directly connected to the server

Export Zones

Forward Zones

Reverse Zones

Zone Name	Last Pushed	Last Modified	Records	Zone Status	Actions
ibmZoneUpdateTest2.com.	05/10/2017 12:53:39	06/05/2017 14:42:32	0	Contains Errors	Check

Importing DNS Zones:

There are six DNS zone import options, available under the [Data Import](#) tab in the Admin section. For more information on importing DNS zones, see [Importing your Data](#) and [Import DNS Zones](#).

BIND Zone Upload / Import: Imports DNS zones using the named.conf configuration file tied to the zones you are uploading, a .zip or .tar file of the zones themselves, and an optional .csv file mapping zones to customers and DNS Servers. This is the simplest and most commonly used import method. Refer to [Import DNS Zones](#) for more information.

PowerDNS Zone Import: This tool is available after [configuring a PowerDNS server](#) with a MySQL backend. The PowerDNS Import connects to the selected server and imports all zones.

InfoBlox Zone Import: Imports DNS zones using a provided Host, Username, and Password. The InfoBlox import pulls all zones on the InfoBlox LOCAL grid and adds them to a designated Group. It is advised to [create a DNS Group](#) prior to the import with default parameters and NS records to be inherited by the imported records.

NS ONE Zone Import: Imports DNS zones using a NS One API Key. It is advised to [create a DNS Group](#) prior to the import with default parameters and NS records to be inherited by the imported records.

Dyn DNS Zone Import: Imports DNS zones using a Dyn DNS Customer Name, Username, and Password. It is advised to [create a DNS Group](#) prior to the import with default parameters and NS records to be inherited by the imported records.

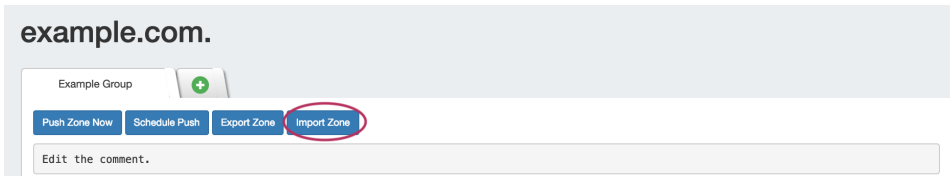
DNSMadeEasy Zone Import: Imports DNS zones using a DNSMadeEasy API Key and API Secret. It is advised to [create a DNS Group](#) prior to the import with default parameters and NS records to be inherited by the imported records.

IPPlan Zone Import: Imports DNS zones using IPPlan MySQL database options. It is advised to [create a DNS Group](#) prior to the import with default parameters and NS records to be inherited by the imported records.

Additional DNS import options may be available on a per-zone or per-server level, accessed from the [DNS](#) Tab:

DNS Zone Import: This tool is available on a zone's "View Zone" page, and allows the user to import additional zone/record information into an existing zone by uploading a zone file (.zone).

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



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 [X]

Zone Name: example.com.

Zone File: Choose File No file chosen

Import Policy [Chevron Right]

☒ **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".

Additional Information:

System Information for Local Installations

Zones are stored in the 6connect web root under /zones.

DS keys are stored in the 6connect web root under /keys.

Global DNS Settings may be set from the [Admin Settings](#) page.

Additional Sections:

For more information on DNS and configurations, see the following sections:

- [Working with DNS Servers](#)
- [Configuring ISC BIND Support](#)
- [Configuring PowerDNS Support](#)
- [Configuring Secure64 Support](#)
- [Configuring Secure64 x86 Support](#)
- [Configuring Route53 Support](#)
- [Configuring Split Horizon and Views](#)
- [Configuring DNSSEC](#)