

# DNS Settings

## DNS Settings

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Enable DNSSEC local signing  
(Testing Purposes Only):

☐ OFF

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.

Save Changes

DNS Settings are accessed by clicking the "DNS" sub-tab at the top of the Admin Settings page. DNS Settings are used to support various DNS functions, including DNSSEC, Dynamic updates, backup settings, push settings, DNS cache settings, and DNS server statistics.

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## DNSSEC Settings

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Enable DNSSEC local signing  
(Testing Purposes Only):

ON

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:

ON

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

Zonesigner Path:

ex: /usr/local/bin/zonesigner

Path to the zonesigner tool.

Sign zones by ISC Bind Utilities  
(Recommended):

ON

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

dnssec-keygen Path:

ex: /usr/sbin/dnssec-keygen

Path to the dnssec-keygen tool.

dnssec-signzone Path:

ex: /usr/sbin/dnssec-signzone

Path to the dnssec-signzone tool.

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 enabled DNSSEC local signing, or sign zones by dnssec-tools, then enter the following information:

**zonesigner path** : Enter the zonesigner path that will be used for DNS. Zonesigner is required if dnssec-keygen and dnssec-signzone are not set.

**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

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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 DDNS failure queue.

## DNS Backup Settings

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**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

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**Keep Import File:** Toggle to "on" if you wish to retain the zone import file inside the zone.

## DNS Push Settings

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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:

300

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 if there is ongoing push and throw an error.

**Enable DNS Push Queue:** If enabled on push, ProVision won't throw an error, but will add the push to a queue. The queue will be executed by the Task Scheduler.

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

**Clear Servers Locks:** Clears the lock state of the servers.

**Clear Push Queue:** Clears the current push queue.

## DNS Cache Settings

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**Enable DNS Cache for Modules and Group:** Toggle to "on" prior to push if you wish to cache the servers and views in advance.

**Enable DNS Cache for Zones per Group:** Toggle to "on" prior to push if you wish to cache the Zones Views Linkage.

## DNS Server statistics

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**Enable DNS Server statistics for snmp:** Toggle to "on" and it will gather information about zone pushes for each server.

## Catalog Zone Settings

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**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.

## Additional Details:

For details on working with DNS, see the following areas:

- [DNS Tab](#)
- [DNS Administration](#)