

Configuring ISC BIND Support

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Getting Started



BIND Version Compatibility

BIND 9 Support is officially supported. Please note that as of May 24, 2018, ISC implemented a different release numbering scheme. From the ISC BIND 9.13 release notes (<https://kb.isc.org/article/AA-01612>):

Previously new feature development releases were tagged as "alpha" and "beta", leading up to the first stable release for a given development branch, which always ended in ".0".

Now, however, BIND has adopted the "odd-unstable/even-stable" release numbering convention. There will be no "alpha" or "beta" releases in the 9.13 branch, only increasing version numbers. So, for example, what would previously have been called 9.13.0a1, 9.13.0a2, 9.13.0b1, and so on, will instead be called 9.13.0, 9.13.1, 9.13.2, etc.

The first stable release from this development branch will be renamed as 9.14.0. Thereafter, maintenance releases will continue on the 9.14 branch, while unstable feature development proceeds in 9.15.

You will need a user who can log in to the DNS server and make changes to the directory in which the zones are being stored. Additionally, it is often useful for this user to have the ability to restart the DNS server. The login and password for this user will be required to configure this server on the DNS Admin page.

6connect Zone files are written out in the following format:

`/path/to/zone/directory/viewName/zoneFirstLetter/zonefile.zone`

If no views are configured, or if views are expressly disabled, then the default viewName "6connectGeneric" is used. The zoneFirstLetter is the first letter of the zone name, so the subdirectory 'microsoft.com.zone' is placed in would be /m/.

All 6connect-managed Zones are managed by a dedicated 6connect configuration file named 6connect_named.conf. This file is created to act a supplementary conf file to work in concert with any existing named.conf which might exist. To include the 6connect configuration file, edit named.conf and append the following line:

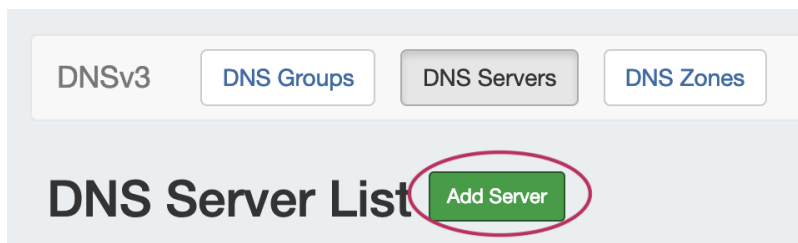
`include "/path/to/conf/directory/6connect_named.conf";`

You must remember to include the 6connect configuration file or none of the changes managed by 6connect ProVision will take effect!

It is also important to note that if your existing named.conf file contains zones within Split Horizon views, then the 6connect-managed zones must also be view-enabled. Likewise, if existing zones are not grouped into views, then views must be disabled on ProVision.

Adding a BIND Server to ProVision

To create a new server, start from the [DNS](#) Tab, select the **DNS Servers** sub menu. Then, click the "Add Server" button next to "DNS Server List".



This will open the "Server Settings" page.

Server Settings

1) Set Server Common Settings

In the "Common Settings" section of Server Settings, enter the new server's Display Name (the name that will appear on the ProVision interface), the FQDN / IP, server type, service type, and desired parent Resource (may be left at the default Top Level Resource).

A screenshot of the 'Common Settings' form for a new DNS server. The form has a light gray header with the text 'Common Settings'. Below the header are five sections, each with a label and a text input field. Red arrows point to each input field. The first section is 'Display Name:' with the placeholder text 'Enter Display Name' and a note 'This is the server name that will appear in the DNS interface.' The second section is 'FQDN or IP:' with the placeholder text 'ex: ns1.dns.6connect.net or 216.239.32.10' and a note 'DNS server real FQDN or IP Address.' The third section is 'Server Type:' with a dropdown menu showing 'Master'. The fourth section is 'DNS Service:' with a dropdown menu showing 'ISC BIND'. The fifth section is 'Parent Resource:' with a dropdown menu showing 'TLR' and a note 'The new server resource will be a child of the Parent Resource.'

2) Set Server Specific Settings

The next section is entering server service-type specific settings. The options visible in this section will depend on the "DNS Service" type chosen under "Common Settings".

Here, we see the fields for ISC BIND server settings. Enter the server Username, Password, Port, Remote Director, Named Conf. Path, and Pre /Post Command (if desired). Your fields may vary for other server types.

For SSH Public Key Authentication, DNSSEC, and Dynamic Option updates, click on the ON / OFF toggle to select "ON" or "OFF" for each as needed.

ISC BIND Settings Test Server

SSH Public Key Authentication: ☐ OFF

Please choose your SSH authentication type.

Username:

Username for the SSH connection. It must have write access to the Bind configurations and zone folders. Bind must also have write permissions to the files that are created with the user.

Password:

Port:

Server SSH Port.

Remote Directory:

Path to the remote server where to store the generated zone files.

Named Conf Path:

Path to the named.conf config.

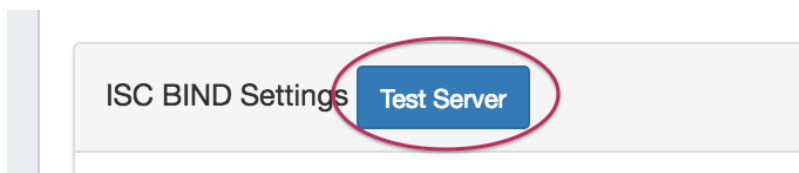
Pre Command:

Post Command:

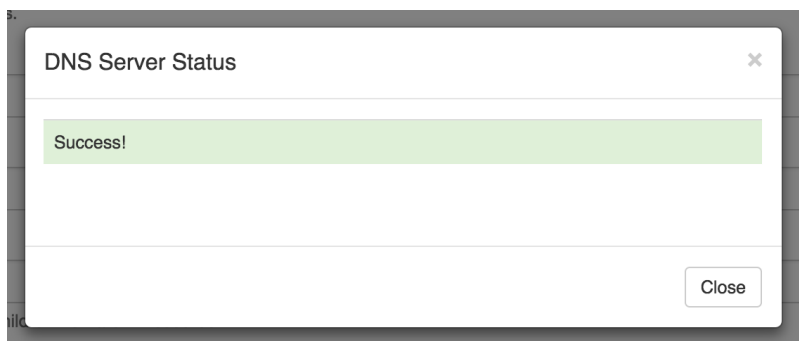
Enable DNSSEC: ☒ ON

Enable Dynamic Updates: ☒ ON

After entering the server-specific settings in this section, you can click the "Test Server" button at the top of the section to test the server connection and authentication.



A window will pop up showing a success or failure response.



3) Set DNS Group Settings for Server

In the last section, select whether to enable Multiple Groups Support for exporting DNS Groups as Views (click to toggle ON / OFF), and select a default Group, if desired, to be associated with the server. Zones assigned to the selected Group will automatically be attached to the server.

DNS Group Settings

Multiple Groups Support: ☐ OFF

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 !

Attach to Group:

No Default Group

If you select a default DNS group to your server, the zones assigned to this group will be automatically attached to the server.

Save changes

4) Save Changes

Save your changes when done! Just click the "Save Changes" button at the bottom right of the page.

DNS Group Settings

Multiple Groups Support: ☐ OFF

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 !

Attach to Group:

No Default Group

If you select a default DNS group to your server, the zones assigned to this group will be automatically attached to the server.

Save changes

The new server will now be added to the DNS Servers list. These settings may be changed at any time by selecting the server from the server list and editing the information.

Additional Information

For additional information on working in DNS, see the following sections:

- [Working with DNS Servers](#)
- [Configuring PowerDNS Support](#)
- [Configuring Secure64 Support](#)
- [Configuring Split Horizon/Views](#)
- [Configuring DNSSEC](#)
- [Import DNS Zones](#)
- [DNS Tab](#)