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DNS Manager — Servers

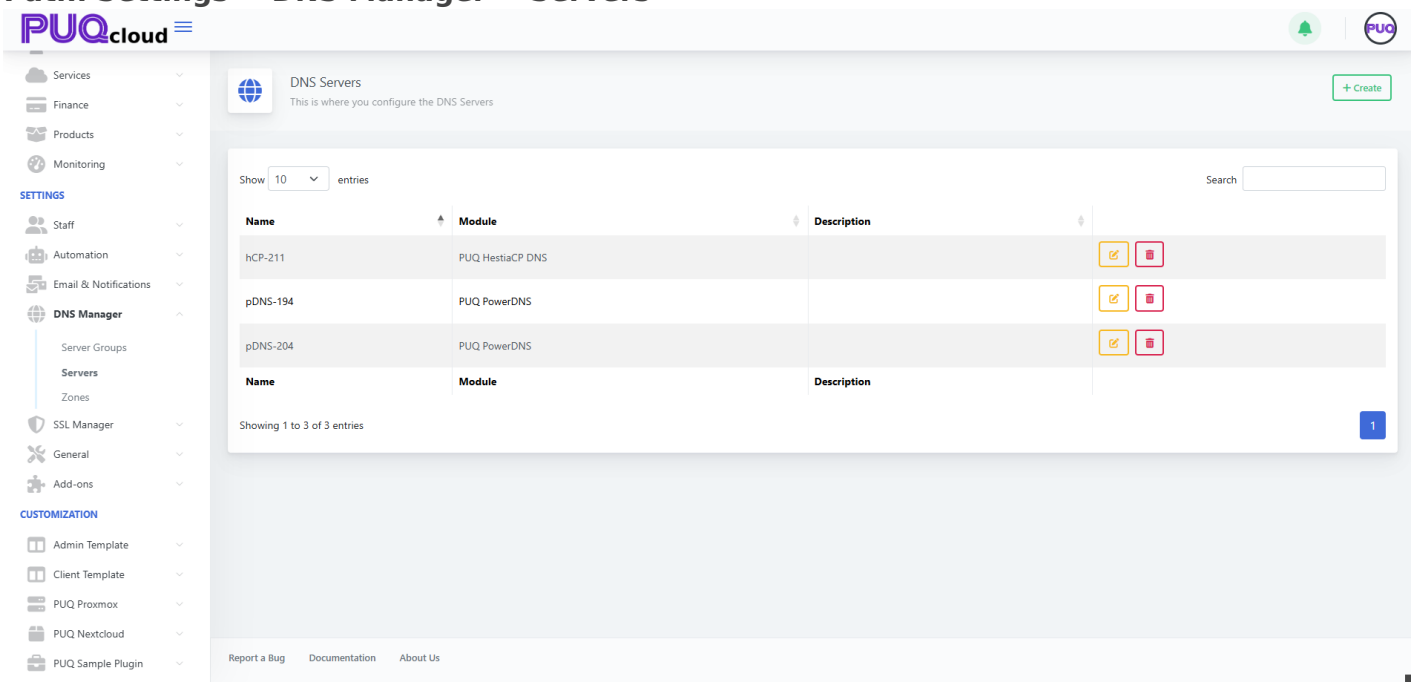
PUQcloud Panel

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1) Purpose of this section

In **Servers** you connect your **real DNS servers** to PUQcloud. Then you attach these servers to **Server Groups**, and groups power your **Zones** (create/update records, reload zones, import/export).

Path: Settings → DNS Manager → Servers



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2) Supported modules

PUQcloud integrates via pluggable modules:

- PUQ PowerDNS

Direct integration with the **PowerDNS HTTP API** (typically port `8081`). The panel creates/updates zones and records through the REST API and provides **Save and Test** to confirm connectivity and show the PowerDNS version.

Use when: you run your own PowerDNS authoritative servers and want fast, transparent automation (including ACME/SSL “tech zone” workflows).

- PUQ HestiaCP DNS

Manages zones/records via the **HestiaCP API**. Operations are performed under a HestiaCP user/API key you supply.

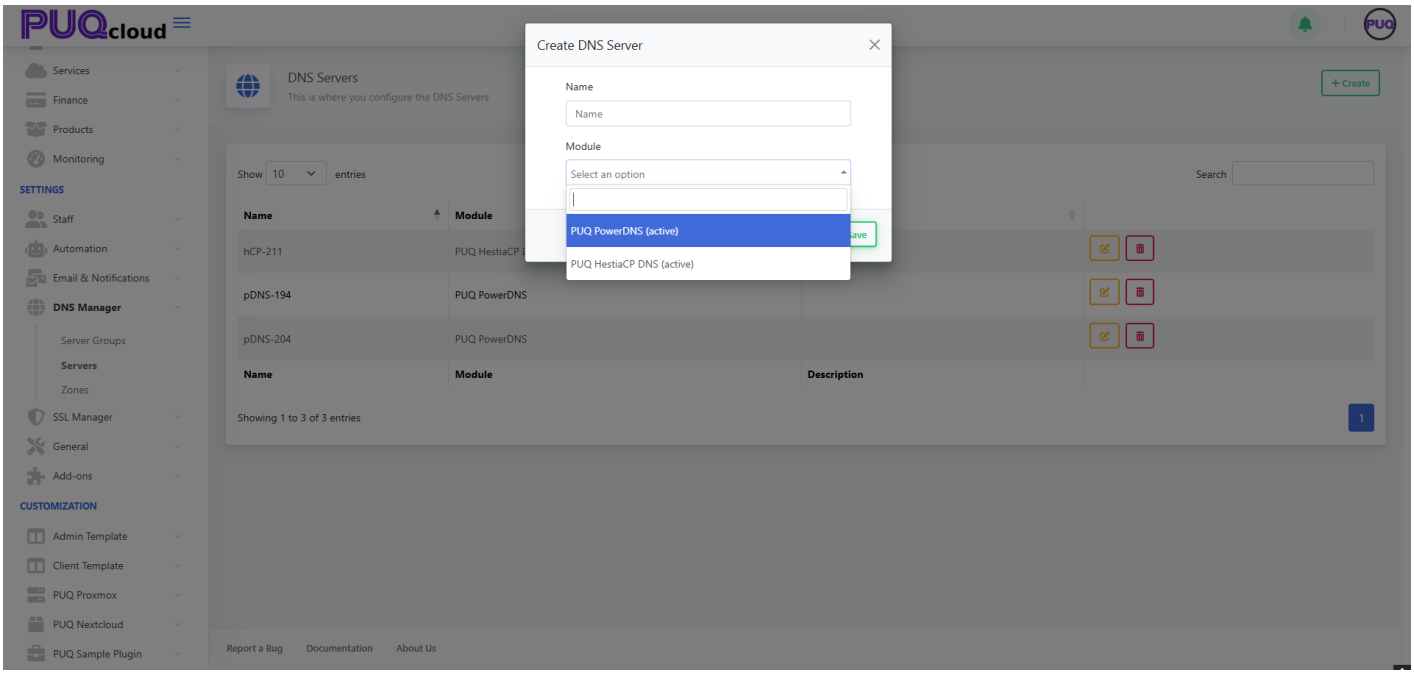
Use when: your DNS lives inside HestiaCP and you want to centralize control via PUQcloud.

> You can run both modules side-by-side in different **Server Groups** (handy for migrations or prod/staging separation).

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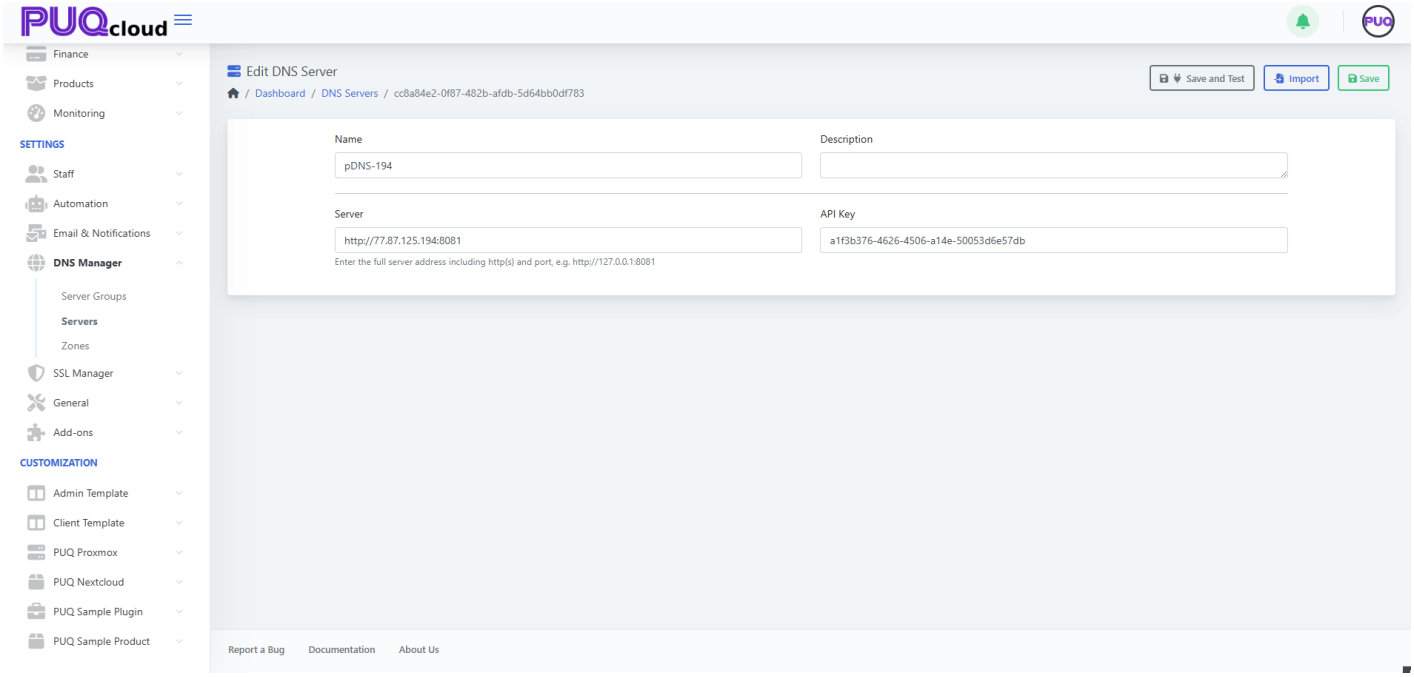
3) Create a server — step by step

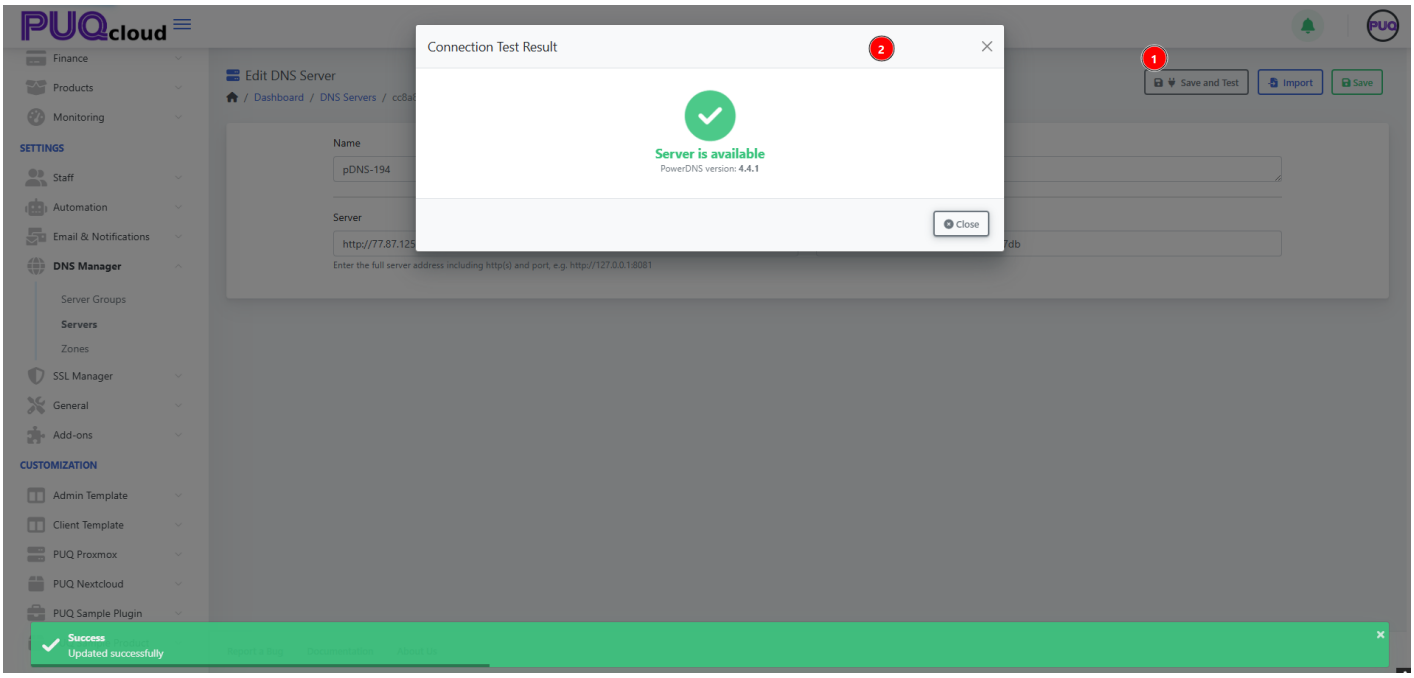
1. Open **Servers** and click **+ Create**.
2. Enter a **Name** (a friendly label).
3. Choose **Module**: **PUQ PowerDNS** or **PUQ HestiaCP DNS**.
4. Click **Save** — you’ll land on the edit page with connection fields.



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4) Configure PowerDNS (PUQ PowerDNS)





Fields

Field	What to enter	Example / Tip
Name	Any friendly name	`pDNS-194`
Description	Optional note	`PowerDNS on dev node`
Server	Full API URL incl. protocol & port	`http://203.0.113.194:8081` or `https://dns.example.com:8081`
API Key	PowerDNS API token (`api-key=` in config)	Create a **dedicated key** forPUQcloud only

Buttons

- **Save and Test** — checks connectivity and displays the **PowerDNS version**.
- **Import** — pulls existing zones from this server (useful on first attach).
- **Save** — persists the settings.

Security tips

- **IP-restrict** the PowerDNS API to your PUQcloud host.
- Prefer **HTTPS** to the API, use a separate **API Key** with least privilege.
- Watch PowerDNS logs during imports or bulk changes.

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5) Configure HestiaCP (PUQ HestiaCP DNS)

After selecting **PUQ HestiaCP DNS**, the edit form shows the HestiaCP API connection fields (API URL + authentication parameters according to your HestiaCP setup — token or user/password).

Recommendations:

- Create a **dedicated HestiaCP user/API key** for PUQcloud.
- Confirm the API is **enabled and reachable** from the PUQcloud host.
- After **Save and Test**, verify by creating a test zone under **Zones**.

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6) Add the server to a group

Once the server tests OK, go to **Settings → DNS Manager → Server Groups → Edit** and add it under **DNS Servers** for the target group.
Then click **Reload All Zones** to deploy **all group zones** onto this newly attached node.

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7) Typical scenarios

A. PowerDNS cluster for the ACME tech zone

1. Add **2+ PowerDNS servers** (in **Servers**), test each with **Save and Test**.
2. Create a group **PowerDNS (devns)**, set **NS Domains** (e.g., `devns1.example.com`, `devns2.example.com`), and attach both servers.
3. Delegate those NS at your registrar.
4. Create the **tech zone** `acme.example.com` in this group.
5. In **SSL Manager → Certificate Authorities**, select this tech zone as **DNS Zone**. Done.

B. Migrating from HestiaCP to PowerDNS

1. Connect your PowerDNS servers.
2. Import zones from HestiaCP (use the **Import** button on PowerDNS or **Zones → Export / Import**).
3. Create a new **Server Group** for PowerDNS and **Move To** switch zones into it.
4. After validation, change domain **delegation** at the registrar to the new NS.

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8) Best practices

- **Redundancy:** attach **at least two** servers to each group (ideally different regions/ASNs).
- **Naming:** keep labels clear — `pDNS-194`, `pDNS-204`, `hCP-211`.
- Always run **Save and Test** after changing connection params.
- Keep zone **TTL 300–600s** during active changes/migrations.
- Lock down APIs by **IP allowlists** and use **HTTPS** where possible.
- Export zones as backups before **bulk operations**.

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9) Troubleshooting

Symptom	Likely cause	Fix
Save and Test fails	Wrong URL/port/key or firewall blocks access	Verify `http(s)://host:port`, API key, and allow the PUQcloud IP
Zone import incomplete	API/user lacks permissions	Grant appropriate rights or use **Zones → Import**
Group zones don’t deploy to the new server	Server not added to **Server Group**	Add it, then **Reload All Zones**
Different answers from NS nodes	One node out of sync or offline	Check health/logs, **Reload All Zones**, restore connectivity

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