

Terminate Process

Proxmox KVM module **WHMCS**

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Overview

Terminating a service means destroying the virtual machine on Proxmox, removing its backups, deleting its DNS records across every configured provider, and cleaning up the WHMCS records. On a service with many backups or many DNS entries this easily takes over a minute — more than a typical PHP request limit allows.

Starting with v3.2 terminate runs asynchronously. When an admin clicks **Terminate**, the module:

1. Sends a fire-and-forget **stop** request to Proxmox so the VM starts shutting down right away.
2. Sets `vm_status = 'terminate'` on the VM record.
3. Returns `success` to WHMCS.

WHMCS then marks the service **Terminated** immediately — the client loses client-area access within the same request. The heavy work (polling for stop, removing backups, deleting DNS records, the Proxmox DELETE call, clearing `tblhosting` and the VM record) is done by the cron task **Process VMs** on the next tick.

Terminate Pipeline

The pipeline is a single cron handler, not a multi-step state machine — but each internal phase is logged as a distinct event.

```
terminate → [stop VM] → [remove backups] → [delete DNS] → [DELETE VM] → [clean DB] →  
remove
```

Phases

Phase	What happens	Failure handling
Stop VM	Single stop request, then poll the remote status every 5 seconds for up to 120 seconds (graceful). If still <code>running</code> , send a force-stop and poll another 60 seconds.	If the VM is still running after both windows, proceed to DELETE anyway — <code>purge=1</code> can reap a hung VM.
Remove backups	Best-effort delete of every backup snapshot for the VM across all configured storages.	Backup deletion errors are caught, logged, ignored.
Delete DNS	For every DNS zone whose name matches the VM's domain or an assigned IP, remove the forward A/AAAA and reverse PTR records.	Per-zone, per-IP errors are non-blocking — caught, logged, the next record continues.
DELETE VM	The Proxmox <code>DELETE /nodes/<node>/qemu/<vmid>?purge=1</code> call. This is the only phase that can cause failure — everything else is best-effort.	On error the VM goes to <code>error_terminate</code> . The DB is not cleaned.
Clean DB	Only on DELETE success. Wipes <code>tblhosting.dedicatedip/assignedips/domain</code> and clears identity fields on the VM record.	

Live cron output

Every phase is streamed to the cron output with timestamps and progress heartbeats. A completed terminate looks like this:

If the **DELETE VM** API call returns an error (node unreachable, lock conflict, auth expired, etc.), the cron handler switches to the failure path:

- `vm_status` is set to `error_terminate`.
- The VM record is **not** cleaned. `tblhosting.dedicatedip` / `assignedips` stay populated, the VM ID stays on the record, the domain is preserved.
- The client gets **one** entry in the Activity Log: `Service termination FAILED – admin attention required. Error: <reason>`.
- The VM Log modal in VM Management shows a red banner with the error.
- The cron will **not** automatically retry — `error_*` states are admin-manual.

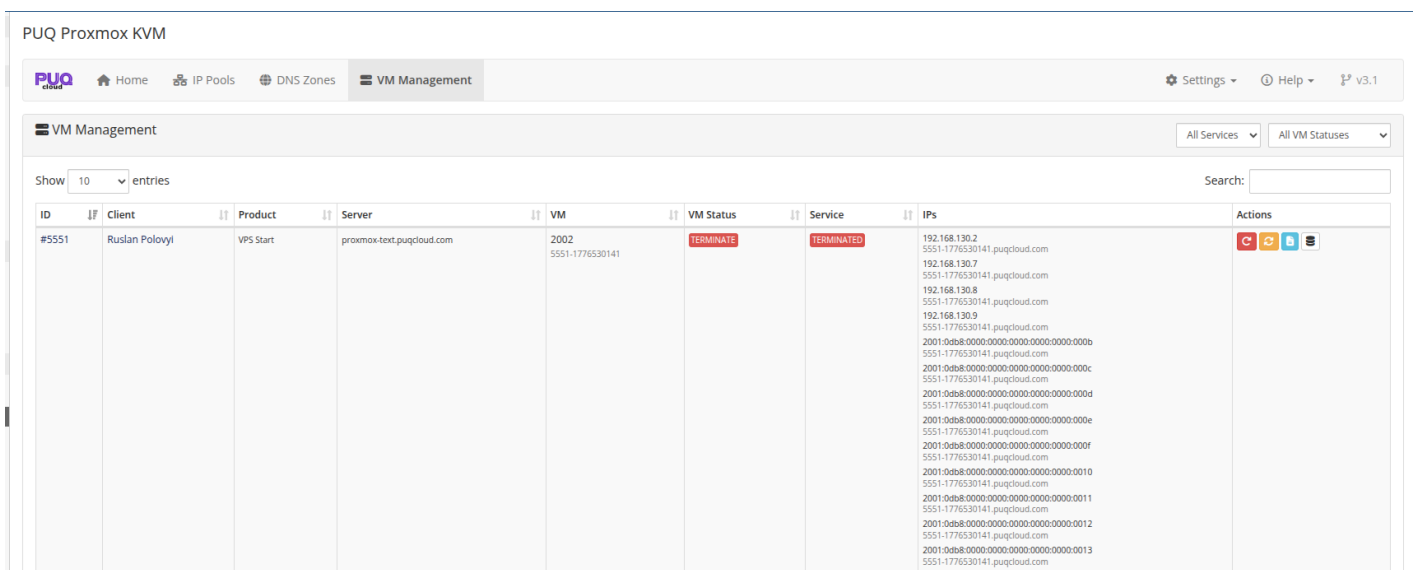
Why IPs stay allocated on failure


It is deliberate. If the VM still exists on Proxmox but the WHMCS record has been cleared, those IPs are free to be reassigned — and the IP pool will hand them out to the next client. That new client's VM will then conflict with a "zombie" VM still holding the IPs on Proxmox. Keeping the record intact until Proxmox confirms the VM is gone avoids this class of bug entirely.

Admin actions after

`error_terminate`

Open **Addons → PUQ Proxmox KVM → VM Management**. Rows in `error_terminate` show a red status badge and a trash icon in the Actions column:



ID	Client	Product	Server	VM	VM Status	Service	IPs	Actions
#5551	Ruslan Polovyl	VPS Start	proxmox-text.puqcloud.com	2002 5551-1776530141	TERMINATE	TERMINATED	192.168.130.2 5551-1776530141.puqcloud.com 192.168.130.7 5551-1776530141.puqcloud.com 192.168.130.8 5551-1776530141.puqcloud.com 192.168.130.9 5551-1776530141.puqcloud.com 2001-0db8-0000-0000-0000-0000-0000-000b 5551-1776530141.puqcloud.com 2001-0db8-0000-0000-0000-0000-0000-000c 5551-1776530141.puqcloud.com 2001-0db8-0000-0000-0000-0000-0000-000d 5551-1776530141.puqcloud.com 2001-0db8-0000-0000-0000-0000-0000-000e 5551-1776530141.puqcloud.com 2001-0db8-0000-0000-0000-0000-0000-000f 5551-1776530141.puqcloud.com 2001-0db8-0000-0000-0000-0000-0000-0010 5551-1776530141.puqcloud.com 2001-0db8-0000-0000-0000-0000-0000-0011 5551-1776530141.puqcloud.com 2001-0db8-0000-0000-0000-0000-0000-0012 5551-1776530141.puqcloud.com 2001-0db8-0000-0000-0000-0000-0000-0013 5551-1776530141.puqcloud.com	

After the cron finishes:

ID	Client	Product	Server	VM	VM Status	Service	IPs	Actions
#5551	Ruslan Polovyi	VPS Start	proxmax-text.puqcloud.com	-	REMOVE	TERMINATED	-	[C] [R] [B] [I] [D]
#5550	Ruslan Polovyi	VPS Start	proxmax-text.puqcloud.com	-	REMOVE	TERMINATED	-	[C] [R] [B] [I] [D]
#5549	Ruslan Polovyi	VPS Start	proxmax-text.puqcloud.com	-	REMOVE	TERMINATED	-	[C] [R] [B] [I] [D]
#5546	Ruslan Polovyi	VPS Start	proxmax-text.puqcloud.com	-	REMOVE	TERMINATED	-	[C] [R] [B] [I] [D]

Showing 1 to 4 of 4 entries

Reset VM Status modal

Clicking the Reset button opens a modal with a full reference of available target statuses and when to use each:

- `terminate` — re-queue the termination. Use this after you've fixed whatever made the original attempt fail (restored node connectivity, re-authed with Proxmox, etc.).
- `remove` — force-mark the VM record as removed. **Does not touch Proxmox.** Use this only when you've manually deleted the VM from Proxmox and just want WHMCS to stop showing it.
- `ready`, `creation`, `set_ip`, `change_package`, `set_dns_records` — retry other state machines (see the [Deploy](#) and [Change Package](#) docs).

Delete Record button

Visible **only** for rows in `error_terminate` or `remove`. Removes the VM row from `puqProxmoxKVM_vm_info`. Does **not** touch Proxmox or `tblhosting`. Use this when the VM is long gone from Proxmox but you want to clean up leftover database rows. The confirmation dialog repeats this warning explicitly.

Guarantees

- **Client access revoked instantly.** The service is Terminated in WHMCS the same moment the admin clicks the button. The client cannot log back in while the actual teardown happens in the background.
- **IPs cannot be reassigned before the VM is gone from Proxmox.** A failing terminate preserves the allocation until a human confirms the cleanup.
- **One Activity Log entry per attempt.** Success → one "terminated successfully" entry.

Failure → one "termination FAILED" entry. Cron never writes duplicates on skipped `|error_terminate|` rows.

- **DNS errors never block termination.** A missing or broken DNS provider does not stop the VM from being destroyed.

Logs

- **Per-VM action log** — in the addon's VM Management → Log modal, every terminate attempt (successful or not) is recorded with duration, phase, and any errors.
- **Client Activity Log** — visible in the WHMCS client area under My Activity Log.
- **Module log** — all Proxmox API calls, DNS provider calls, and non-blocking errors go to WHMCS **Utilities** → **Logs** → **Module Log** with identifier `|puqProxmoxKVM|` and `|puq_proxmox_kvm|`.
- **Cron output** — when running cron in verbose mode, every step is streamed to stdout in real time.

Related reading

- [Deploy Process](#) — same state-machine pattern applied to provisioning.
- [Change Package](#) — async package changes.
- [VM Management](#) — the admin UI with the Reset and Delete Record actions.
- [DNS Zones & Integration](#) — what happens in the DNS deletion phase.

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