The Deploy Process

PUQ Web Hosting module **WHMCS**

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Provisioning is **not** done synchronously inside the WHMCS order. `_CreateAccount` simply records the desired service and enqueues the work; the cron-driven task runner then builds the service step by step. This is what keeps orders instant and makes every step retryable.

The chain

A new order fans out into a chain of idempotent tasks, roughly:

```
create package  →  create web user   →  add web domain   →  (PHP/SSL/proxy)
                →  create mail user   →  add mail domain  →  DKIM/SPF/DMARC
                →  create dns user    →  add zone         →  add records (× every DNS
server)
                →  mark service active
```

Each task does exactly one thing on one target, checks whether it's already done before acting, and reports back. Because every step is **idempotent**, re-running the chain (a retry, a Redeploy, a Factory reset) converges on the same end state instead of duplicating resources.

What the customer sees

While the chain runs, the customer sees a live progress splash with a timeline; on success they land on the dashboard, on failure an error screen with **Try again**. This is covered visually in **Deployment & Segmentation → How deployment works**.

Why async

- **Instant orders** — checkout doesn't block on SSH to several servers.
- **Resilience** — a momentarily unreachable node just delays its tasks; the rest proceed and the failed ones retry.
- **Observability** — every step is a row you can watch, retry or inspect in the Task Queue and Operation Log.

> See the next page for the retry/back-off policy and failure tickets.

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