Automatic updates

This is the recipe for 1-click updates/upgrades starting in Tiki25.

- Updates are in the same branch: 24.1 -> 24.2
- Upgrades are different branches: 21.3 -> 22.0 or 21.3 -> 24.1

Context

1-click updates/upgrades is a highly-requested capability which is tricky to do right. Risks include:

- broken updates/upgrades
- time-outs
- browser disconnection (user closes browser during an upgrade or Internet access is lost)
- loss of local modications
- lower security on file permissions
- issues if self-update conflicts with external installer tool
- The upgrade succeeded but the user wants to restore previous version (regression bug, change of behavior, etc.)

Requirements

- Command line access
- Cron jobs
- Tiki Manager dependencies, or the capability to install them. See the Tiki Manager section of Tiki Check
  - rsync
  - git
  - etc.

High-level

Once set up, Tiki will update Tiki Manager, and Tiki Manager will update/upgrade Tiki. Steps:

1. Install Tiki from Git, either
   - manually or
   - with an external Tiki Manager (which you don't need to keep after) or
   - with virtualmin-tikimanager
2. Set up the cron job for Tiki Scheduler (which will be used so operations are background processes)
3. Install the Tiki Manager Package
4. Use Tiki Manager to update/upgrade Tiki on demand (web or command line) or update automatically (via a cron job)

Benefits

While tools have been available for years for updates/upgrades, they required using the command line. Starting in Tiki25, the command line will only be required for the initial setup.

Code directly from Git sources

- Can get any revision, and not just released versions
- Can efficiently maintain local modifications
  - Before updates/upgrades, there is a check to detect conflicts
- Can use your own Git branch
- Can use merge requests / branches
- If a file is removed from the official source code, it will be removed. If you install over an older via a

zip, you will have leftover files which can cause issues.

Pick your preferred lifecycle

- Pick any version: Bleeding edge, stable, Long Term Versions (LTS), etc. See: Versions

Sensible file permissions

Since Tiki Manager is not ran by the web user (like Apache or www), it can set safer file permissions

Background process

Since Tiki Manager is not ran by the web user (like Apache or www), it is not prone to time-out errors

Testing on clones

- Thanks to Tiki Manager, you can clone, clone-and-update or clone-and-upgrade to have a test environment. Within Virtualmin, this is even easier with the GUI to create a web space with a database, and clone from one to another, as seen here: https://wikisuite.org/Virtualmin-Tiki-Manager

A Tiki instance can be managed by more than one Tiki Manager

- So for example, a hosting company could handle updates for security issues via a remote Tiki Manager, while the site manager uses the local Tiki Manager for other updates/upgrades like testing new features.

Tons of other features

- Please see Tiki Manager

Before Tiki25 via command line

Tiki Manager

Recent versions of Tiki Manager use Git, but previously, it was SVN

- instance:update
- instance:upgrade
- manager:setup-update

svnup.php

svnup.php which is bundled starting in Tiki17

An example of this script on a daily cron job

```
0 0 * * * cd /var/www/html/; php doc/devtools/svnup.php
```