Contributing to Docker CLI: Demystifying open source contributions

George Margaritis @gmargaritis

Apr 16 2024, Docker Athens

- → ~ docker stack deploy —detach=false
- → ~ docker stack rm —detach=false

What was the issue?

Support --detach flag in docker stack deploy / rm #373



dedalusj opened this issue on Jul 21, 2017 · 37 comments





decentral1se commented on Jun 15, 2021 • edited ▼

If someone would like to discuss being funded to work on this issue, please gimme a shout <u>lukewm@riseup.net</u>. We need this as part of a project which we're using swarm as the underlying orchestrator and having to write custom workarounds for the fact that —detach is missing is not ideal. There are so many +1s on this issue, clearly a lot of people need this to get done.

. . .





Why did nobody contribute directly?



sorenhansendk commented on Aug 16, 2018

@drozzv: We have the same problem, but we solved it with few lines of Powershell.

Run this right after your docker stack deploy command:

ushuz commented on Apr 19, 2018

@AdrianSkierniewski

```
Do
    $Services = $(docker stack services [YOUR-STACK-NAME] -q);
    $Inspects = (docker service inspect $Services) | ConvertFrom-Json
    SUpdating = @();
    $Completed = @();
    $Rolledback = @();
    ForEach ($Service in $Inspects | Where-Object { $_.UpdateStat
        if ($Service.UpdateStatus.State -eq 'completed') {
            $Completed += $Service
       } elseif ($Service.UpdateStatus.State -like 'rollback*')
            $Rolledback += $Service
        $Updating += $Service;
    "Waiting for {0} service(s) to update ({1} completed / {2} ro
   Start-Sleep 5
} Until ($Updating.Count -eg ($Completed.Count + $Rolledback.Coun
```

For deploying stack with Ansible, I modified docker_stack module (ansible/ansik

docker service 's behaviour to wait for services to be converged.

You can find the modified module in this gist, hope it's useful.



mattmatt commented on Feb 14, 2018

Any update on this, or on **nullobject**'s question above?

This tool tries to help with that but native support is certainly preferred.





sudo-bmitch commented on Oct 8, 2018

Adding to the list of external implementations, here's a script to run after a docker stack deploy t completes.

https://github.com/sudo-bmitch/docker-stack-wait







vitalets commented on Aug 23, 2020 I'd like to share my script waiting for docker stack deploy to complete.

Compared to existing solutions it shows update progress per instance of each service.

Example output:

STATUS (nodejs_service): updating h1isbgdgmwv1 nodejs_service.1 8zu8v3waxyjx _ nodejs_service.1 b45471xoq9d4 nodejs_service.2 xyagddf48560 nodejs_service.3

https://github.com/vitalets/docker-stack-wait-deploy

nodejs_service_prod:1.5 nodejs_service_prod:1.4 nodejs_service_prod:1.4 nodejs_service_prod:1.5 swarm-manager

Running Running Runnina Running

DESIRED STATE

(☑) (♥ 1)





Contributing process

Understanding the need

- → Look for similar issues
- → Pay attention to the maintainers' way of thinking
- → Analyze user feedback



dnephin commented on Jul 26, 2017

Contributor •

When --detach=false is used, what should we show as output? I assume progress bars, should we have a progress bar per task (like we have with service commands), or should it be a progress bar per service?

cc @thaJeztah @vdemeester





thaJeztah commented on Jul 26, 2017

Member

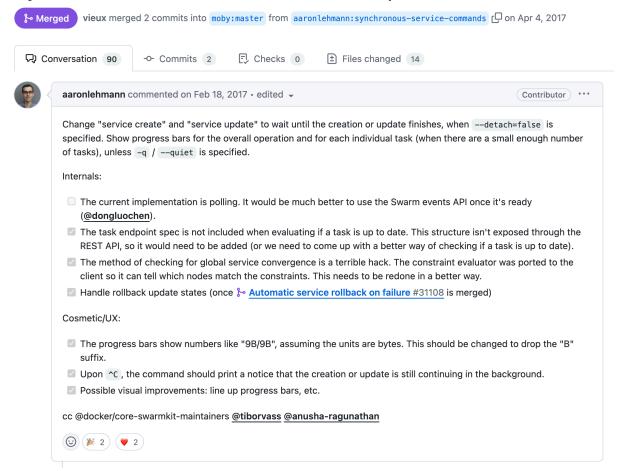
• • •

Perhaps the same (set of) progress bars as for service create/update - grouped per service (although I can see that becoming too verbose with large stacks containing lots of services

Should we have someone from the UX / design team craft a design?



Synchronous service create and service update #31144



Doing the dirty work

- → Get familiar with the codebase
- → Pay attention to the coding style
- → Try to get something working fast

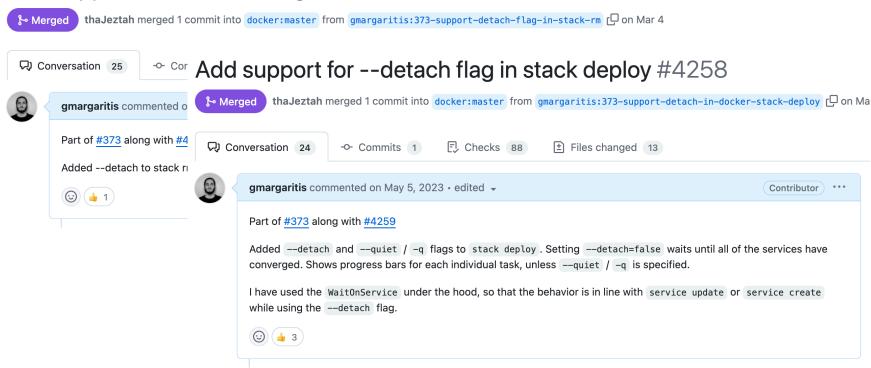
→ ~ docker stack deploy —detach=false

```
func waitOnServices(ctx context.Context, dockerCli command.Cli, serviceIDs []string, quiet bool) error {
287
          var errs [lerror
288
289
          for , serviceID := range serviceIDs {
290
              if err := servicecli.WaitOnService(ctx, dockerCli, serviceID, quiet); err != nil {
                  errs = append(errs, fmt.Errorf("%s: %w", serviceID, err))
291
292
293
294
          if len(errs) > 0 {
295
296
              return errors.Join(errs...)
297
298
          return nil
299
300
301
```

→ ~ docker stack rm —detach=false

```
func waitOnTasks(ctx context.Context, client apiclient.APIClient, namespace string) error {
170
171
          terminalStatesReached := 0
172
          for {
173
              tasks, err := getStackTasks(ctx, client, namespace)
174
              if err != nil {
175
                  return fmt.Errorf("failed to get tasks: %w", err)
176
177
              for _, task := range tasks {
178
179
                  if terminalState(task.Status.State) {
                      terminalStatesReached++
180
181
                      break
182
183
184
              if terminalStatesReached == len(tasks) {
185
186
                  break
187
188
189
          return nil
190
```

Add support for --detach flag in stack rm #4259



Collaborating with the maintainers



cli/command/stack/deploy.go

Comment on lines +45 to +46

45 + flags.BoolVarP(&opts.Detach, "detach", "d", true, "Exit immediately instead of waiting
46 + flags.BoolVarP(&opts.Quiet, "quiet", "q", false, "Suppress progress output")



thaJeztah on Oct 25, 2023

Member) •

It looks like this PR (currently at least) keeps the old behavior (docker stack deploy being non-interactive / detached as default).

If the plan is to eventually make "interactive" (--detach=false) the default, I also went looking how we handled the transition for docker service create; moby/moby@ 21ec12b (moby/moby#31144)

For that we chose to print a warning; wondering if (and if: when? / which release?) we want to do the same for docker stack; inform users that we plan to switch non-detach as default, with the option to return to the old (-- detach [=true]) behavior.





gmargaritis on Nov 30, 2023



Author

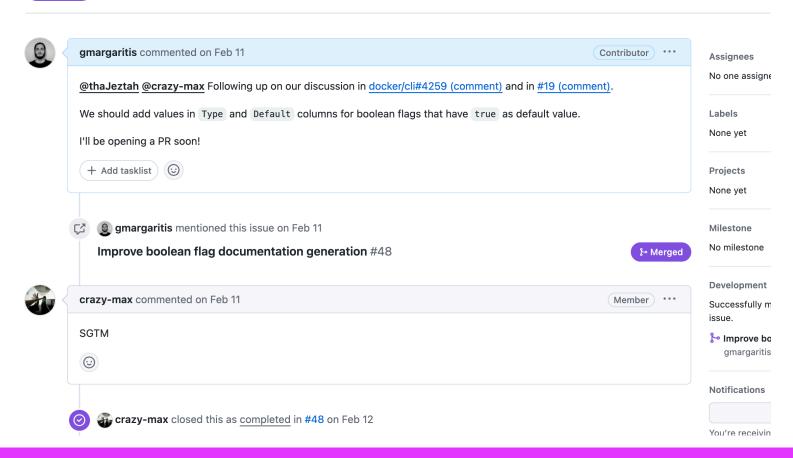
I've added a message just like in moby/moby@21ec12b (moby/moby@21ec12b (moby/moby#31144) as you said, indicating that we plan to switch non-detach as default.



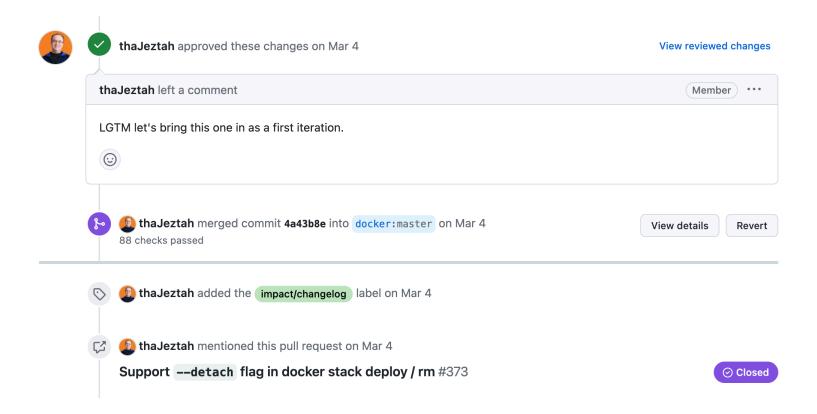
```
docs/reference/commandline/stack_rm.md (Outdated)
       11 +
       12 + | Name | Type | Default | Description
       13 + |:-----|:----|:----|
       14 + | `-d`, `--detach` | | Do not wait for stack removal |
    thaJeztah on Feb 8
                                                                                       Member
    Interesting; for some reason it doesn't show the default here (9)
    --help shows the correct output, but the markdown generator doesn't <a>9</a> Any ideas <a>0</a>crazy-max</a>?
      ./build/docker stack rm --help
                                                                                               Q
      Usage: docker stack rm [OPTIONS] STACK [STACK...]
      Remove one or more stacks
      Aliases:
        docker stack rm, docker stack remove, docker stack down
      Options:
        -d, --detach Do not wait for stack removal (default true)
    \odot
```

Improve documentation for boolean flags with true as default value #47

⊙ Closed gmargaritis opened this issue on Feb 11 · 1 comment · Fixed by #48



Responsibility





happens, life goes on

Lessons learned

→ Don't be afraid to experiment

→ Follow the guidelines

→ Make their life easier

Thank you

George Margaritis

@gmargaritis

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George Margaritis

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