

## openQA Project - action #109734

### Better way to prevent conflicts between openqa-worker@ and openqa-worker-auto-restart@ variants size:M

2022-04-09 10:22 - okurz

<b>Status:</b> Resolved	<b>Start date:</b> 2022-04-09
<b>Priority:</b> Low	<b>Due date:</b>
<b>Assignee:</b> jbaier_cz	<b>% Done:</b> 0%
<b>Category:</b> Feature requests	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> Ready	
<b>Difficulty:</b>	

**Description**

#### Motivation

Multiple times we have found users trying to start the systemd-services openqa-worker@ when instead we are running openqa-worker-auto-restart@. Last instance when that happened was in [#109055](#). We should try to find a better way which is less confusing to users. At best we should have only openqa-worker@ and use configuration to solve the auto-restart requirement.

#### Acceptance criteria

- **AC1:** We have an unambiguous solution for providing both variants of worker modes which are not confusing users
- **AC2:** Ensure documentation covers the updated way

#### Suggestions

- DONE: Research about systemd service best practices
- DONE: Research why we chose to have separate systemd service at the time -> Likely because we need different settings on systemd level
- DONE: Conduct a brainstorming session together, different ideas:
  - Replace openqa-worker@ by a symlink pointing to the real solution, e.g. "openqa-worker-auto-restart" and "openqa-worker-plain", similar to "network.service" which for us is a symlink in /etc/systemd/system pointing to e.g. /usr/lib/systemd/system/NetworkManager.service or /usr/lib/systemd/system/wicked.service
  - Alternative: just provide a drop-in file instead of separate systemd service file
  - Alternative: Potentially provide the drop-in file in an openSUSE package
  - Alternative: Solve it within a process itself so that systemd is not involved, e.g. same as hypnotoad or nginx
- Should the services be actual "conflicts" on the level of systemd? -> Likely yes, but not a full solution. Could be done on top
- Update documentation

**Related issues:**

Related to openQA Infrastructure - action #109055: Broken workers alert	<b>Resolved</b>	<b>2022-03-28</b>
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#### History

##### #1 - 2022-04-09 10:22 - okurz

- Related to action #109055: Broken workers alert added

##### #2 - 2022-04-09 13:31 - okurz

- Priority changed from Normal to Low

##### #3 - 2022-05-02 10:56 - okurz

- Subject changed from Better way to prevent conflicts between openqa-worker@ and openqa-worker-auto-restart@ variants to Better way to prevent conflicts between openqa-worker@ and openqa-worker-auto-restart@ variants size:M

- Description updated

- Status changed from New to Workable

##### #4 - 2022-05-02 11:12 - okurz

Wicked solves it with the following code in the spec file:

```

%if %{with systemd}

%pre service
# upgrade from sysconfig[-network] scripts
_id=`readlink /etc/systemd/system/network.service 2>/dev/null` || :
if test "x${_id##*/}" = "xnetwork.service" -a -x /etc/init.d/network ; then
    /etc/init.d/network stop-all-dhcp-clients || :
fi
%{service_add_pre wicked.service}

%post service
%{service_add_post wicked.service}
# See bnc#843526: presets do not apply for upgrade / are not sufficient
#         to handle sysconfig-network|wicked -> wicked migration
_id=`readlink /etc/systemd/system/network.service 2>/dev/null` || :
case "${_id##*/}" in
""|wicked.service|network.service)
    /usr/bin/systemctl --system daemon-reload || :
    /usr/bin/systemctl --force enable wicked.service || :
;;
esac

%preun service
# stop the daemons on removal
# - stopping wickedd should be sufficient ... other just to be sure.
# - stopping of the wicked.service does not stop network, but removes
#   the wicked.service --> network.service link and resets its status.
%{service_del_preun wickedd.service wickedd-auto4.service wickedd-dhcp4.service wickedd-dhcp6.service wickedd-
nanny.service wicked.service}

%postun service
# restart wickedd after upgrade
%{service_del_postun wickedd.service}
...
%endif

```

however NetworkManager and also systemd-network do not provide that when I tried out the install in a container environment. I guess one should still research about a systemd ecosystem best practice here.

#### #5 - 2022-05-24 11:49 - okurz

- Tags set to reactive work
- Parent task deleted (#80908)

#### #6 - 2022-06-02 14:23 - jbaier\_cz

I think we can do the transition in to phases:

1. Move from [openqa-worker@.service](#) to [openqa-worker-plain@.service](#) and provide symlink for the old service name pointing to the new one
2. Update spec file to find out if [openqa-worker@.service](#) is a symlink and do not change it during updates

Did I miss something?

The PR for the first step is: <https://github.com/os-autoinst/openQA/pull/4687>

#### #7 - 2022-06-03 14:25 - okurz

- Due date set to 2022-06-16
- Status changed from Workable to In Progress
- Assignee set to jbaier\_cz

#### #8 - 2022-06-03 14:51 - jbaier\_cz

As the PR is merged, next steps should be doing some spec file magic to not overwrite openqa-worker@.service symlink.

#### #9 - 2022-06-09 11:10 - jbaier\_cz

- Status changed from In Progress to Feedback

I just realized there is even better mechanism to preserve user changes: just put them in the /etc where they belong.

MR for salt to do exactly that: [https://gitlab.suse.de/openqa/salt-states-openqa/-/merge\\_requests/698](https://gitlab.suse.de/openqa/salt-states-openqa/-/merge_requests/698)

**#10 - 2022-06-09 14:17 - jbaier\_cz**

- Status changed from *Feedback* to *Resolved*

Changes are merged and deployed, documentation was also updated in <https://github.com/os-autoinst/openQA/pull/4695>

systemd is listing the correct unit:

```
openqaworker5:~> systemctl cat openqa-worker@  
# /usr/lib/systemd/system/openqa-worker-auto-restart@.service  
...
```

So hopefully, this will help.

**#11 - 2022-06-10 09:30 - okurz**

- Status changed from *Resolved* to *Feedback*

please review <https://gitlab.suse.de/openqa/salt-states-openqa#remarks-about-the-systemd-units-used-to-start-workers> as well. Maybe we can simplify the section and make it less error-prone now.

Please also consider using the openqa-worker@ symlinked service definition directly

**#12 - 2022-06-15 09:28 - okurz**

- Due date deleted (2022-06-16)

- Status changed from *Feedback* to *Resolved*

[https://gitlab.suse.de/openqa/salt-states-openqa/-/merge\\_requests/699](https://gitlab.suse.de/openqa/salt-states-openqa/-/merge_requests/699) merged. Seems good.