

openQA Project - action #66649

Test GitHub actions for os-autoinst

2020-05-08 15:56 - tinita

Status:	Resolved	Start date:	2020-05-08
Priority:	Normal	Due date:	
Assignee:	tinita	% Done:	0%
Category:	Feature requests	Estimated time:	0.00 hour
Target version:	Current Sprint		
Difficulty:			
Description			
We're currently using Travis CI for os-autoinst. It doesn't allow different workflows and also no caching.			
GitHub Actions allow that, and we should try to setup a Proof of Concept workflow to see if it works.			
Related issues:			
Related to openQA Project - action #53546: Easier dependencies handling for p...		New	2019-06-27
Blocks openQA Project - action #66721: Use GitHub actions for os-autoinst		Resolved	2020-05-12

History

#1 - 2020-05-12 09:44 - okurz

- Related to action #53546: Easier dependencies handling for packages, e.g. reduce duplication of build requirements in spec, documentation, Dockerfile added

#2 - 2020-05-12 10:08 - okurz

Discussed with tinita in person: We should collect our experiences from this proof of concept and then close this ticket. We can follow up with this work elsewhere to not make this too big.

#3 - 2020-05-12 12:21 - tinita

I made a Proof of Concept in the branch <https://github.com/os-autoinst/os-autoinst/compare/perlunk/test-actions>

Workflow definition: <https://github.com/os-autoinst/os-autoinst/blob/perlunk/test-actions/.github/workflows/linux.yml>

Test run: <https://github.com/os-autoinst/os-autoinst/runs/666857696>

I had to use the patched qemu packages. Thanks Andrii for showing me.

I split up the workflows already in test and style.

Pros

- Supports workflows, optionally depending on each other, so we can get early results
- Caching can be used to cache results of bigger tasks for later runs (for example exported docker images)
- Artifacts are supported and can also be used to share files between different workflows
- Shows timestamps for every log line optionally, so it makes it easier to see what took longer than expected
- Every workflow is shown in the Github PR separately, like in CircleCI
- Supports colored output. All our debug log messages from autoinst are shown in purple. Easier for the eyes to see unexpected warnings

Cons

- Artifacts can not be viewed directly in the Web UI, but must be downloaded as zip files
- Seems a bit slower than Travis (total time for the two seperated workflows 12m, vs. 9-10m in Travis)
- Doesn't support YAML *aliases (and therefor also no Merge Keys <<)
- No shared directory between different workflows, so you have to use Artifacts or Caching to share something

TODO

codecov is not yet working, complaining with:

```
{"meta": {"status": 400}, "error": {"reason": "Please provide the repository token to upload reports via `t : repository-token`, "context": null}}
```

Conclusion

We could already use this, if we fix two issues:

- We should put the patched qemu into the openqa_dev container first. (But installing it takes only half a minute)
- codecov needs to be working

Notes

An example of using artifacts can be seen here:

- Upload: <https://github.com/ingydotnet/yaml-libyaml-pm/blob/master/.github/workflows/linux.yml#L61>
- Download: <https://github.com/ingydotnet/yaml-libyaml-pm/blob/master/.github/workflows/linux.yml#L92>

#4 - 2020-05-12 13:37 - tinita

- Blocks action #66721: Use GitHub actions for os-autoinst added

#5 - 2020-05-12 13:38 - tinita

- Blocks deleted (action #66721: Use GitHub actions for os-autoinst)

#6 - 2020-05-12 13:38 - tinita

- Blocks action #66721: Use GitHub actions for os-autoinst added

#7 - 2020-05-12 13:40 - tinita

Created <https://progress.opensuse.org/issues/66721> as a followup

#8 - 2020-05-12 13:40 - tinita

- Status changed from In Progress to Resolved