

openQA Project - action #20812

Jobs will be assigned to workers with wrong arch unless WORKER_CLASS is set somewhere

2017-07-26 23:09 - AdamWill

Status:	Resolved	Start date:	
Priority:	Normal	Due date:	
Assignee:	mkittler	% Done:	0%
Category:	Feature requests	Estimated time:	0.00 hour
Target version:	Current Sprint		
Difficulty:	easy		
Description			
<p>I think since commit fd3c570f8f4554037ffae1179742b9025390eabe , there doesn't seem to be any simple arch-based protection against jobs running on a worker of the wrong arch any more. The %cando matrix in Common.pm is still there, but if you trace it out, the code which ultimately decides whether a job is appropriate - job_grab , in Scheduler/Scheduler.pm - never actually cares about it any more. The values from it get passed into job_grab as the 'workercaps' arg, and the only thing the function does with 'workercaps' is pass it back to the worker (when it does \$worker->seen(\$workercaps)); it does nothing else with those values any more. So unless the test suite, machine or product specifies WORKER_CLASS , openQA will happily go ahead and try to run an x86_64 job on a ppc64 worker. To cite an <i>entirely random</i> example. Or, you know, possibly not <i>entirely</i> random:</p> <p>https://openqa.fedoraproject.org/admin/workers/19</p> <p>I'm gonna go ahead and add WORKER_CLASS to all our machine definitions in our distri to fix our instance, but I do think it's worth reporting that openQA does the wrong thing if WORKER_CLASS isn't explicitly set.</p>			
Related issues:			
Related to openQA Project - coordination #32851: [tools][EPIC] Scheduling red...		Resolved	2018-05-05
Related to openQA Project - action #33580: Jobs are assigned to workers with ...		Rejected	2018-03-21

History

#1 - 2017-11-23 07:16 - coolo

- Target version set to Ready

#2 - 2017-11-23 07:18 - coolo

The protection might not be so useful on larger clusters where requiring WORKER_CLASS would be the easier solution. But test developers have single host installations - and we need to protect them from running random architectures :)

#3 - 2018-03-07 12:07 - dasantiago

- Related to coordination #32851: [tools][EPIC] Scheduling redesign added

#4 - 2018-03-08 14:35 - EDiGiacinto

A bit tricky in practice for s390x jobs, where workers are actually x86_64 and CPU_ARCH is set to that value

Just to clarify in terms of ACs:

- Make the scheduler aware of the worker's jobs capabilities and do not assign jobs to those with a different architecture
- While doing this, take into account when workers are executing jobs in different platforms - either worker explicitly declaring that, or inferring it with a different mechanism

#5 - 2018-03-08 16:44 - AdamWill

Indeed, we have a similar case with running an ARM test on x86_64 (using extreeemeeeee slooooooow emulation).

I mean, it's possible there's no really great fix here. If attempting to fix it gets too complex there's probably a point at which we should just stop, throw out the %cando matrix, and document "you should do this in instance config with worker classes". I don't think that's too terrible so long as it's *written down*.

#6 - 2018-03-21 11:46 - dasantiago

- Related to action #33580: Jobs are assigned to workers with different backend added

#7 - 2018-06-25 17:39 - coolo

- *Difficulty set to easy*

I wouldn't care for deployments with complicated workers - admins of those need to read documentation. But jobs post and isos post should take care that we have a WORKER_CLASS - and default to qemu_\$ARCH to make the result predicatable.

#8 - 2019-02-14 15:31 - mkittler

- *Assignee set to mkittler*

- *Target version changed from Ready to Current Sprint*

#9 - 2019-02-14 16:40 - mkittler

- *Status changed from New to In Progress*

PR: <https://github.com/os-autoinst/openQA/pull/1996>

#10 - 2019-02-28 16:21 - mkittler

- *Status changed from In Progress to Resolved*

PR has been merged