

## openQA Project - action #68851

### Allow qemu host IP to be something other than 10.0.2.2

2020-07-10 20:03 - AdamWill

<b>Status:</b>	Resolved	<b>Start date:</b>	2020-07-10
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	okurz	<b>% Done:</b>	0%
<b>Category:</b>	Feature requests	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Ready		
<b>Difficulty:</b>	hard		

#### Description

os-autoinst currently has some pretty strong assumptions about the IP address 10.0.2.2:

- testapi::host\_ip is always 10.0.2.2 for qemu instances, and testapi::autoinst\_url uses this address unless AUTOINST\_URL\_HOSTNAME is set, so qemu workers will try to reach the host on <http://10.0.2.2> when e.g. uploading assets unless AUTOINST\_URL\_HOSTNAME is set
- For non-tap workers, this is the default IP for the host in usermode networking
- For tap workers, the bridge interface on the worker host must have the IP 10.0.2.2/15. This is enforced in os-autoinst-openvswitch

I got a request from Fedora infra folks asking if our openQA instance can stop using 10.0.2.2 (I'm not yet sure if the br0 interface is the only problem, or if jobs that use usermode networking are also an issue), so I started work on a patch to allow us to use 172.16.2.2 instead, but it seems not really super straightforward, so I'm filing an issue to see if other folks have thoughts on how to handle this.

It's relatively easy to conditionalize the stuff in os-autoinst-openvswitch a bit to allow for the bridge to be at either 10.0.2.2/15 or 172.16.2.2/15 and adjust the rules depending on which it is. But it's testapi::host\_ip and the usermode networking case that I'm kind of struggling with the best way to handle. Should we have a new variable that causes us to run qemu with params to use 172.16.2.2 instead of 10.0.2.2 if we're doing usermode networking, and have host\_ip look at that variable too, and trust the sysadmin will use 172.16.2.2 for the bridge if they're setting that variable? Can anyone think of anything better? Is anyone aware of anything I'm missing here?

Another option I have is to just write a downstream patch which straight swaps out all the 10.0.2.2 assumptions for 172.16.2.2 assumptions and just use that for our deployment, but then I get to maintain that forever, and someone might add a new thing upstream that assumes 10.0.2.2 and break our stuff until I notice it...

#### History

##### #1 - 2020-07-12 19:40 - okurz

- Status changed from New to Feedback

- Assignee set to okurz

Maybe <https://github.com/os-autoinst/os-autoinst/pull/1468> can help you.

AdamWill wrote:

[...] it's testapi::host\_ip and the usermode networking case that I'm kind of struggling with the best way to handle. Should we have a new variable that causes us to run qemu with params to use 172.16.2.2 instead of 10.0.2.2 if we're doing usermode networking, and have host\_ip look at that variable too, and trust the sysadmin will use 172.16.2.2 for the bridge if they're setting that variable? Can anyone think of anything better? Is anyone aware of anything I'm missing here?

For now I would do it slightly different and live with a tiny duplication in test variables. In the PR I suggest a variable QEMU\_HOST\_IP to be able to set the host IP address. The usermode network settings can already be configured with the variable NICTYPE\_USER\_OPTIONS. So I suggest to follow [https://wiki.qemu.org/Documentation/Networking#User\\_Networking\\_28SLIRP.29](https://wiki.qemu.org/Documentation/Networking#User_Networking_28SLIRP.29) and set NICTYPE\_USER\_OPTIONS and QEMU\_HOST\_IP accordingly.

##### #2 - 2020-07-28 11:27 - okurz

- Target version set to Ready

##### #3 - 2020-07-29 19:10 - okurz

- Status changed from Feedback to Resolved

<https://github.com/os-autoinst/os-autoinst/issues/1468> was merged. We don't plan to use it ourselves. AdamWill will tell me if I messed up :)