

qe-yast - action #68708

coordination # 66394 (Closed): [epic][y] Enable VNC+SSH Installations on aarch64

[functional][y] Generate support_server image for SLES on aarch64

2020-07-07 09:44 - riafarov

Status:	Resolved	Start date:	2020-07-07
Priority:	Normal	Due date:	2020-08-11
Assignee:	ybonatakis	% Done:	0%
Category:		Estimated time:	8.00 hours
Target version:	future		
Description			
openQA doesn't support cross-platform MM tests, so we cannot use 64bit support server. See parent ticket for motivation. Some hints for SLES image generation: https://gitlab.suse.de/hsehic/qa-css-docs/blob/master/openqa/README.md#creating-a-supportserver-image 64bit jobs using support server: https://openqa.suse.de/tests/4428137 and https://openqa.suse.de/tests/4428135			
Acceptance criteria			
<ol style="list-style-type: none">1. support_server image generation is trivial in case we need update or image for other architectures2. support_server image provides all functionality for multimachine ssh and vnc remote installations on aarch64			
Hints			
So from the previous ticket (#9576) some points for image generation on TW:			
<ul style="list-style-type: none">• Get latest qcow2 from TW/SLES create_hdd_gnome• Install pattern dhcp_dns_server• Switch from Network Manager to Wicked• Disable firewall• To avoid dimming of the screen, turn off gnome screensaver gsettings set org.gnome.desktop.session idle-delay 0 and turn off gnome suspend gsettings set org.gnome.settings-daemon.plugins.power sleep-inactive-ac-type 'nothing'• In job conf delete QEMU VGA and use VIRTIO_CONSOLE=1			
Related issues:			
Related to openQA Tests - action #69349: [functional][y] setting QEMU VGA=cir...		Rejected	2020-07-25

History

#1 - 2020-07-15 09:01 - riafarov

- Description updated
- Status changed from New to Workable
- Estimated time set to 8.00 h

#2 - 2020-07-15 17:55 - ybonatakis

- Status changed from Workable to In Progress
- Assignee set to ybonatakis

#3 - 2020-07-18 08:34 - ybonatakis

<https://github.com/os-autoinst/os-autoinst-distrib-opensuse/pull/10718>

#4 - 2020-07-20 13:48 - ybonatakis

- Status changed from In Progress to Feedback

I provide a script in the PR that use autoyast to generate the supportserver. i expect this will make it easier in the future to generate a qcow for aarch

and x86_64. We need to edit the script for other archs.

I tried to verify that this would work with the remote_ssh but apparently the test needs adjustment. i created <https://progress.opensuse.org/issues/69142>. i have modified the yaml to use the bootloader_start module but uefi+MM does not work because of missing parameters.

We (with @joaquin) test the qcow in the remote ssh. The results [here](#). I used Full media as i had network issues on the target machine in the [Online media](#).

However i expect the qcow to be suitable for remote_vnc as well. If not, we can easily regenerate an image with the provided xml or use the script with another xml to get another qcow if we want.

The supportserver is using SLE15-SP2 as base image (GMC)

#5 - 2020-07-21 09:20 - ybonatakis

- Status changed from Feedback to In Progress

#6 - 2020-07-21 14:03 - ybonatakis

Notes from experiments we wanted to explore:

- The current supportservers (x86_64) are not working with the aarch setup.
- MM setup with different arch are not supported. (i think the relative code in OpenQA is <https://github.com/os-autoinst/openQA/blob/master/lib/OpenQA/Schema/Result/ScheduledProducts.pm#L579>. there is a check to match machines between the dependent test)

#7 - 2020-07-27 11:53 - riafarov

FYI: <https://progress.opensuse.org/issues/69349> I guess we can revert changes made to the dev job group for now.

#8 - 2020-07-28 07:24 - ybonatakis

The alternative is to use create_hdd_gnome adding one module that already exists to do the configuration. The image that it is created by this job contains all the necessary patterns(base minimal_base x11 x11_enhanced and gnome_basic). So nothing to do with it. Although we need to install some packages

```
apache2 tftp dhcp-server bind yast2-iscsi-lio-server xrdp
```

openssh, nfs-client is already installed.

I was thinking if you could provide them with test_data or some other way but for now i have defined it as a list in the module. wicked is used and i use setup_static_mm_network to ensure that. there is no requirement to disable the firewall for MM test so it remains enabled.

[remote_ssh](#) seems to be able to boot and connect.

[remote_vnc](#) can also boot but i havent test the connectivity so far. I dont know why we use [QEMU VGA with cirrus](#) but it does not work

#9 - 2020-07-28 08:35 - riafarov

- Due date changed from 2020-07-28 to 2020-08-11

#10 - 2020-07-28 12:01 - okurz

- Related to action #69349: `[[functional]]y` setting QEMUVGA=cirrus invalid for aarch64 on remote_vnc_controller: auto_review:"qemu-system-aarch64: Cirrus VGA not available" added

#11 - 2020-08-04 12:49 - ybonatakis

<https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/10780> i have created another PR to not messed up with the changes that i am asked (to avoid a bug mess).

Next step is to see where to run the job

#12 - 2020-08-05 08:14 - ybonatakis

- Status changed from In Progress to Feedback

remains to setup the jobs in the development group

#13 - 2020-08-11 06:00 - ybonatakis

- Status changed from Feedback to Resolved

i added configuration to the https://openqa.suse.de/admin/job_templates/96

```

aarch64:
- supportserver_generator_from_hdd_gnome:
  settings:
    BOOTFROM: c
    BOOT_HDD_IMAGE: '1'
    CONSOLE_JUST_ACTIVATED: '0'
    DESKTOP: gnome
    HDD_1: 'SLES-%VERSION%-%ARCH%-Build%BUILD%@%MACHINE%-gnome.qcow2'
    START_AFTER_TEST: create_hdd_gnome:aarch64
    PUBLISH_HDD_1: openqa_support_server_sles15sp2_%ARCH%_%BUILD%@%MACHINE%_%DESKTOP%.qcow2
    UEFI_PFLASH_VARS: 'SLES-%VERSION%-%ARCH%-Build%BUILD%@%MACHINE%-gnome-uefi-vars.qcow2'
    YAML_SCHEDULE: schedule/supportserver_generator_from_hdd.yaml
  testsuite: supportserver_generator_from_hdd
- supportserver_generator_from_hdd_textmode:
  settings:
    BOOTFROM: c
    BOOT_HDD_IMAGE: '1'
    CONSOLE_JUST_ACTIVATED: '0'
    DESKTOP: textmode
    HDD_1: '%DISTRIM%-%VERSION%-%ARCH%-%BUILD%-%DESKTOP%@%MACHINE%.qcow2'
    START_AFTER_TEST: create_hdd_textmode:aarch64
    PUBLISH_HDD_1: openqa_support_server_sles15sp2_%ARCH%_%BUILD%@%MACHINE%_%DESKTOP%.qcow2
    UEFI_PFLASH_VARS: '%DISTRIM%-%VERSION%-%ARCH%-%BUILD%-%DESKTOP%@%MACHINE%-uefi-vars.qcow2'
    YAML_SCHEDULE: schedule/supportserver_generator_from_hdd.yaml
  testsuite: supportserver_generator_from_hdd

```

```

x86_64:
- supportserver_generator_from_hdd_gnome:
  settings:
    BOOTFROM: c
    BOOT_HDD_IMAGE: '1'
    CONSOLE_JUST_ACTIVATED: '0'
    DESKTOP: gnome
    HDD_1: 'SLES-%VERSION%-%ARCH%-Build%BUILD%@%MACHINE%-gnome.qcow2'
    START_AFTER_TEST: create_hdd_gnome
    PUBLISH_HDD_1: openqa_support_server_sles15sp2_%ARCH%_%BUILD%@%MACHINE%_%DESKTOP%.qcow2
    UEFI_PFLASH_VARS: 'SLES-%VERSION%-%ARCH%-Build%BUILD%@%MACHINE%-gnome-uefi-vars.qcow2'
    YAML_SCHEDULE: schedule/supportserver_generator_from_hdd.yaml
  testsuite: supportserver_generator_from_hdd
- supportserver_generator_from_hdd_textmode:
  settings:
    BOOTFROM: c
    BOOT_HDD_IMAGE: '1'
    CONSOLE_JUST_ACTIVATED: '0'
    DESKTOP: textmode
    HDD_1: '%DISTRIM%-%VERSION%-%ARCH%-%BUILD%-%DESKTOP%@%MACHINE%.qcow2'
    START_AFTER_TEST: create_hdd_textmode
    PUBLISH_HDD_1: openqa_support_server_sles15sp2_%ARCH%_%BUILD%@%MACHINE%_%DESKTOP%.qcow2
    UEFI_PFLASH_VARS: '%DISTRIM%-%VERSION%-%ARCH%-%BUILD%-%DESKTOP%@%MACHINE%-uefi-vars.qcow2'
    YAML_SCHEDULE: schedule/supportserver_generator_from_hdd.yaml
  testsuite: supportserver_generator_from_hdd

```

#14 - 2020-08-11 06:43 - ybonatakis

- Status changed from Resolved to Feedback

#15 - 2020-08-11 07:15 - ybonatakis

- Status changed from Feedback to Resolved

<https://openqa.suse.de/tests/4546574#>

<https://openqa.suse.de/tests/4546573#>

#16 - 2020-08-11 11:22 - riafarov

Image names in the fixed directory:

- openqa_support_server_sles15sp2_aarch64_gnome.qcow2
- openqa_support_server_sles15sp2_aarch64_textmode.qcow2