RHV 4.x

Sample grub.cfg to auto-build RHV-H ISO using custom kickstarts

Reference: Building a Custom Boot ISO for Red Hat Virtualization Hypervisor

<https://rhelblog.redhat.com/2017/11/27/building-a-custom-boot-iso-for-red-hat-virtualization-hypervisor/>

After expanding the RHV-H ISO via the documentation, change to the BUILD directory, then optionally make a kickstarts directory (kickstart file locations below assume this exists):

# cd /path/to/BUILD

# mkdir ./kickstart

The below might not be needed? I was able to get legacy (non-UEFI) to boot without this change.

Modify the file:

isolinux/grub.conf

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title Install rhv-a-h1

findiso

kernel @KERNELPATH@ @ROOT@ quiet

initrd @INITRDPATH@

title Install rhv-a-h2

findiso

kernel @KERNELPATH@ @ROOT@ quiet

initrd @INITRDPATH@

title Install rhv-a-h3

findiso

kernel @KERNELPATH@ @ROOT@ quiet

initrd @INITRDPATH@

-----

Modify file:

isolinux/isolinux.cfg

-----

label RHV-A-H1

menu label ^Install RHVH :: rhv-a-h1

kernel vmlinuz

append initrd=initrd.img inst.stage2=hd:LABEL=RHVH-4.2\x20RHVH.x86\_64 ks=hd:LABEL=RHVH-4.2\x20RHVH.x86\_64:/kickstart/rhv-a-h1.cfg quiet

label RHV-A-H2

menu label ^Install RHVH :: rhv-a-h2

kernel vmlinuz

append initrd=initrd.img inst.stage2=hd:LABEL=RHVH-4.2\x20RHVH.x86\_64 ks=hd:LABEL=RHVH-4.2\x20RHVH.x86\_64:/kickstart/rhv-a-h2.cfg quiet

label RHV-A-H3

menu label ^Install RHVH :: rhv-a-h3

kernel vmlinuz

append initrd=initrd.img inst.stage2=hd:LABEL=RHVH-4.2\x20RHVH.x86\_64 ks=hd:LABEL=RHVH-4.2\x20RHVH.x86\_64:/kickstart/rhv-a-h3.cfg quiet

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The referenced documentation states to modify the EFI files inside the BUILD/images/efiboot.img file. It has been seen that to make the changes take effect on a EFI system, the changes need to be made to the BUILD/EFI/BOOT/grub.cfg file. It may take both being modified.

Modify file:

EFI/BOOT/grub.cfg

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menuentry ‘Install RHVH :: rhv-a-h1’ –class fedora –class gnu-linux –class gnu –class os {

linuxefi /images/pxeboot/vmlinuz inst.stage2=hd:LABEL=RHVH-4.2\x20RHVH.x86\_64 ks=hd:LABEL=RHVH-4.2\x20RHVH.x86\_64:/kickstart/rhv-a-h1.cfg quiet

initrdefi /images/pxeboot/initrd.img

}

menuentry ‘Install RHVH :: rhv-a-h2’ –class fedora –class gnu-linux –class gnu –class os {

linuxefi /images/pxeboot/vmlinuz inst.stage2=hd:LABEL=RHVH-4.2\x20RHVH.x86\_64 ks=hd:LABEL=RHVH-4.2\x20RHVH.x86\_64:/kickstart/rhv-a-h2.cfg quiet

initrdefi /images/pxeboot/initrd.img

}

menuentry ‘Install RHVH :: rhv-a-h3’ –class fedora –class gnu-linux –class gnu –class os {

linuxefi /images/pxeboot/vmlinuz inst.stage2=hd:LABEL=RHVH-4.2\x20RHVH.x86\_64 ks=hd:LABEL=RHVH-4.2\x20RHVH.x86\_64:/kickstart/rhv-a-h3.cfg quiet

initrdefi /images/pxeboot/initrd.img

}

-----

Copy grub.cfg file changes to the efiboot.img image:

# TEMPDIR="$(mktemp -d /tmp/tmpmount-XXX)"

# mount images/efiboot.img “${TEMPDIR}”

# cp -f EFI/BOOT/grub.cfg “${TEMPDIR}/EFI/BOOT/grub.cfg”

# umount “${TEMPDIR}”

# rmdir “${TEMPDIR}”

Create kickstart files. Reference for creating RHV-H 4.2 ISO kickstart file:

<https://docs.google.com/document/d/1VdlwOH-RLsR3WjxCxR8JulqFLkItk-JohvM9OkT9rSk>

Example given below:

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%pre  
cd /tmp  
rpm2cpio /run/install/repo/Packages/redhat-virtualization-host-image-update\*|cpio -ivd  
squashfs=$(find|grep squashfs|grep -v meta)  
ln -s $squashfs /tmp/squashfs  
%end  
liveimg --url=file:///tmp/squashfs  
clearpart --all  
autopart --type=thinp  
rootpw --plaintext **my-password**  
timezone --utc **US/Eastern**  
lang en\_US.UTF-8  
keyboard --vckeymap=us --xlayouts=''  
network **--bootproto=static --hostname=rhv-a-h1.example.com --device=bond0 --ip=172.31.100.10 --netmask=255.255.255.0 --gateway=172.31.100.1 --vlanid=101 --noipv6 --bondopts=miimon=100,mode=802.3ad,lacp\_rate=1 --bondslaves=eth0,eth1**  
network **--bootproto=static --device=bond0 --ip=172.31.200.10 --netmask=255.255.255.0 --vlanid=102 --noipv6 --bondopts=miimon=100,mode=802.3ad,lacp\_rate=1 --bondslaves=eth2,eth3**  
zerombr  
text  
  
reboot  
  
%post --erroronfail

imgbase layout --init

%end

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