ORACLE

RHEL 9 Custom Image Import to OCI with Red Hat Image Builder

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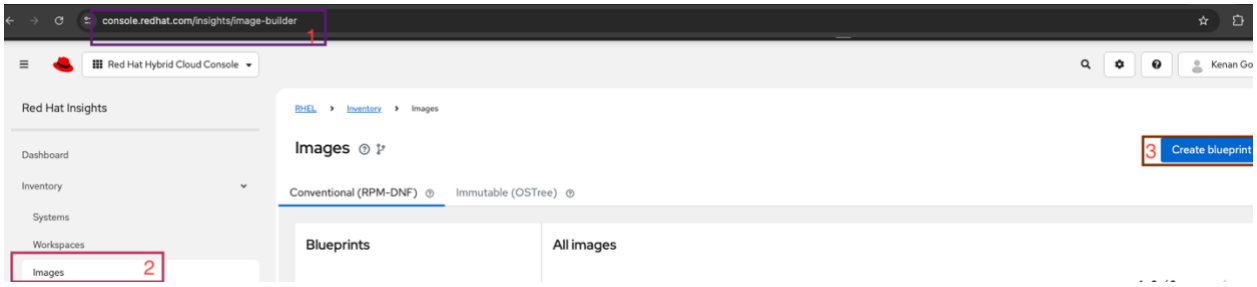
Contents

RHEL 9 Custom Image Import to OCI with Red Hat Image Builder

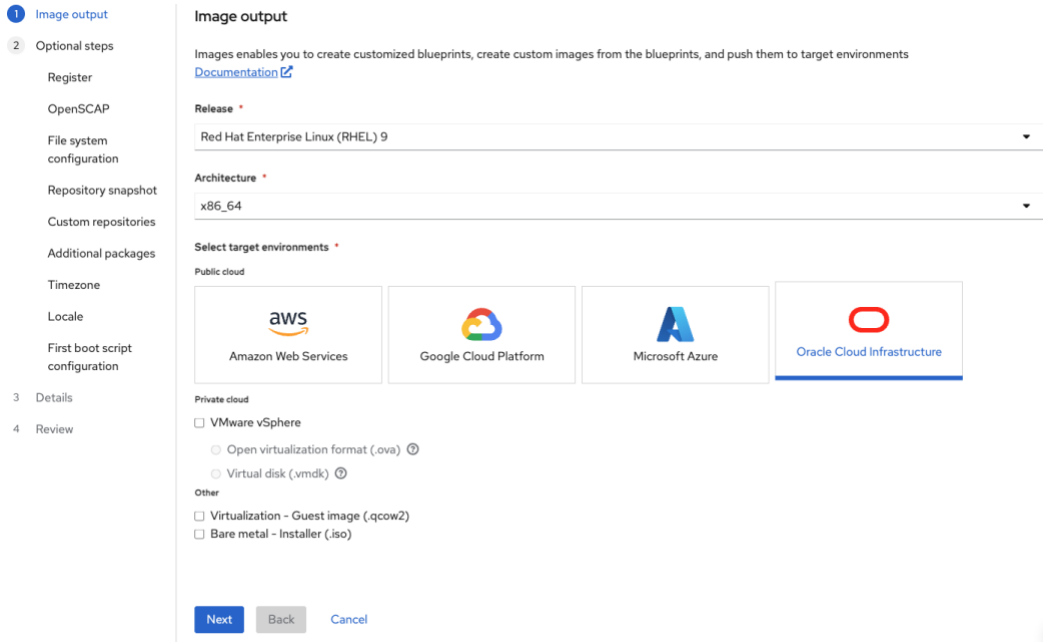
In this tutorial, we will explain how to import a RHEL 9 image from Red Hat Hybrid Cloud Console to OCI as a Custom Image. Then, we will create an instance from this Custom Image.

1.1 Creating the RHEL9 Image with Builder

- Connect to https://console.redhat.com/insights/dashboard. You can create a free Red Hat Account with your email address and credentials. You can use your company account if you have. Subscriptions can be utilized as we will see in execution steps.
- Go to **Images** Sections under **Inventory** and Click **Create Blueprint**.

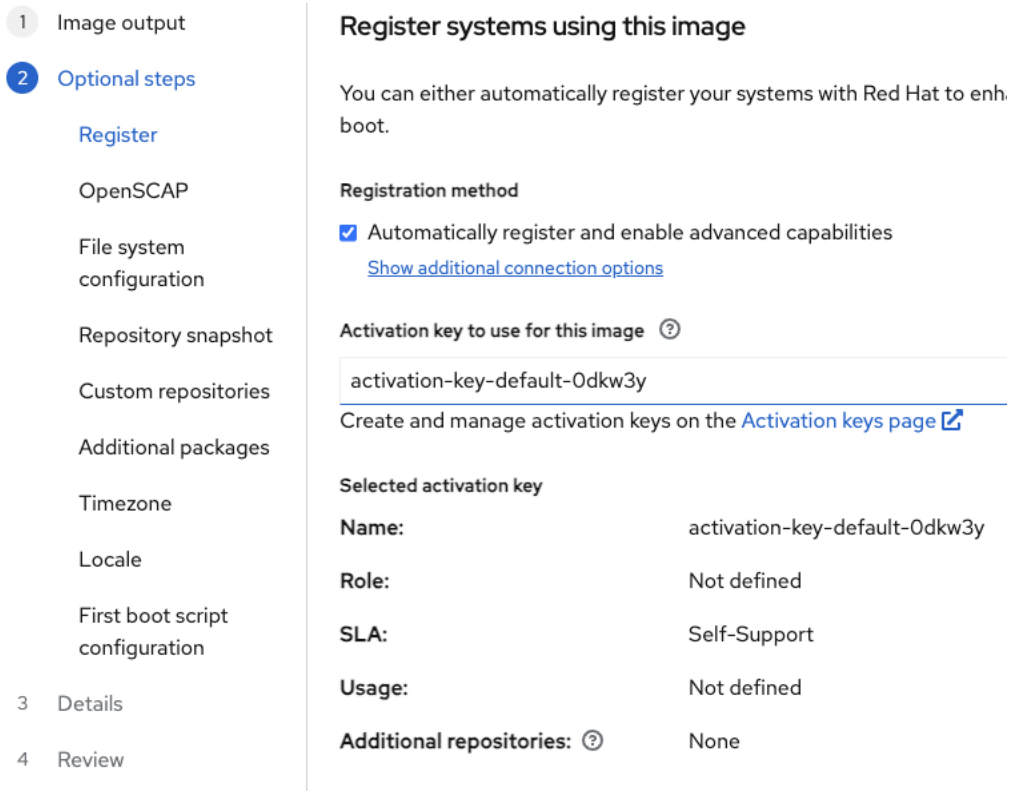


- Image Output Selection
    1. Release: Red Hat Enterprise Linux 9
    2. Architecture: x86_64
    3. Select Target Environment: Oracle Cloud Infrastructure
    4. Private Cloud and Other: Leave Unselected

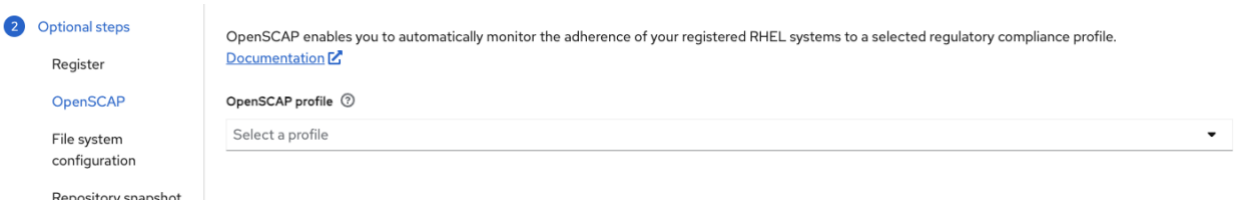


- Optional Steps

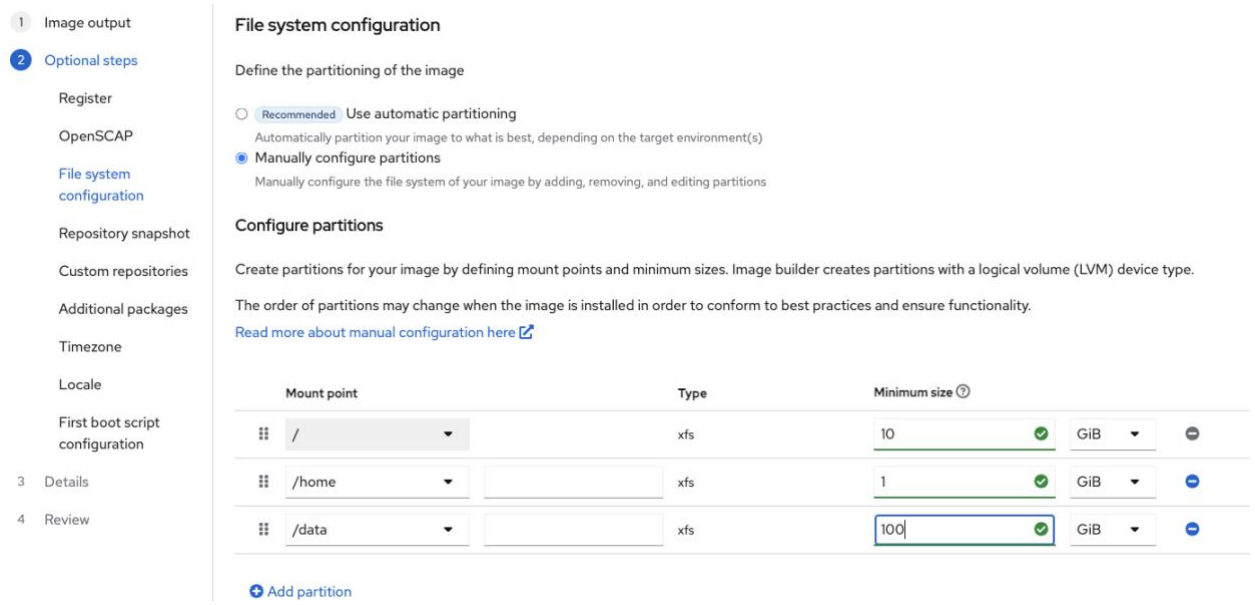
- If you have a **Subscription**, you can unselect Registration Method: Automatically register and enable advanced capabilities section. then you can register VM after OS booting. Alternatively, you can select this option.



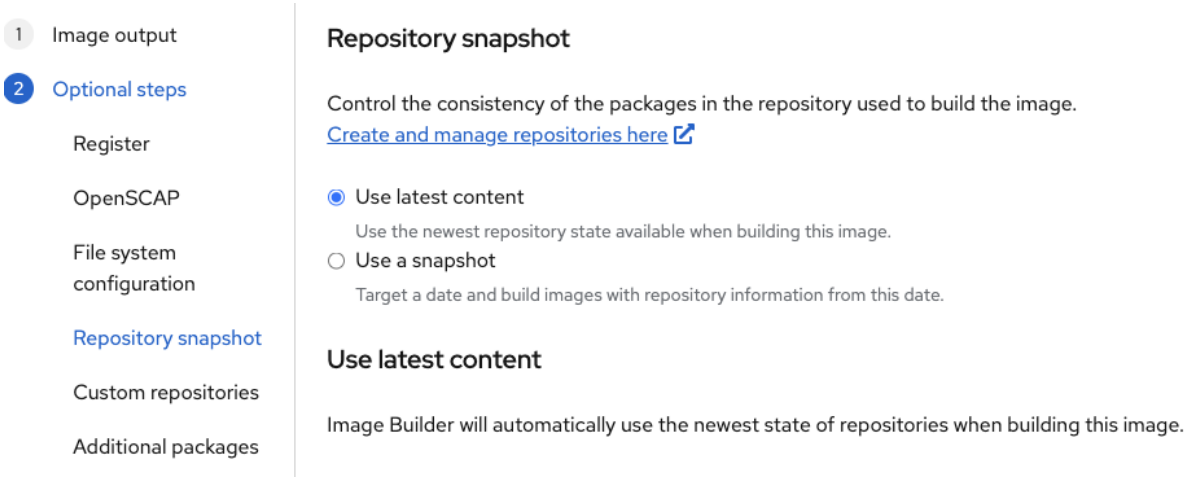
- You can leave **OpenSCAP Profile Blank** or You can choose any profile listed in the dropdown menu according to your regulatory compliance profile.



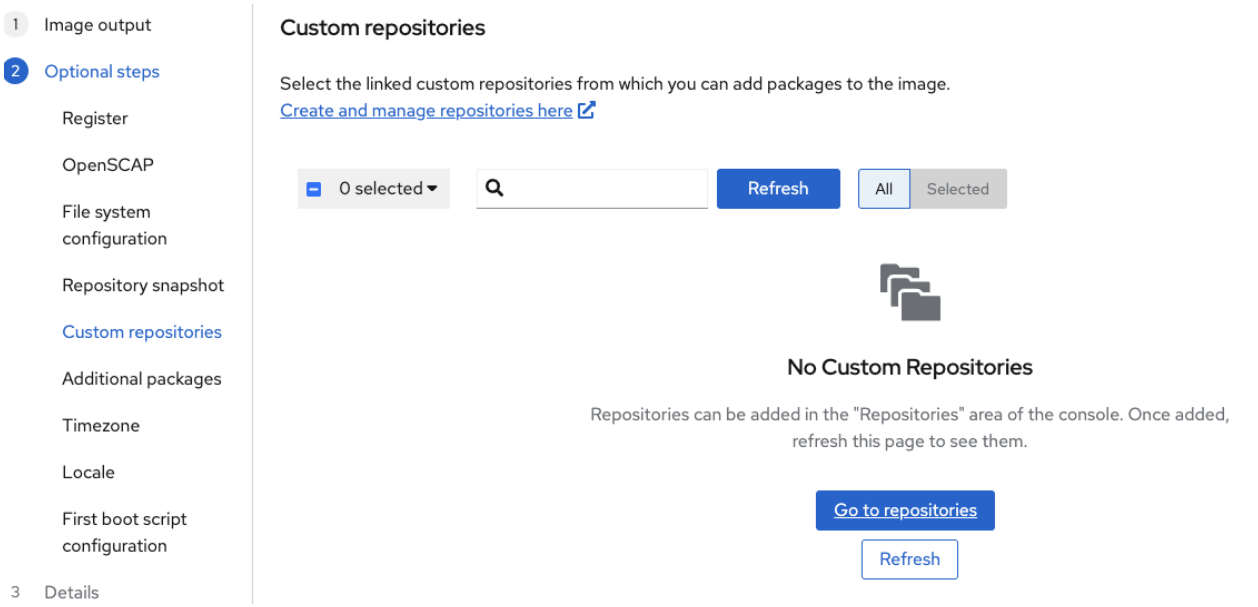
- For File system configuration, you can either select A**utomatic partitioning or you can Manually configure partitions** by creating entries for Mount Points and Minimum Size as per required layout. Configuration will reflect to /etc/fstab file and disks will be mounted in filesystem.



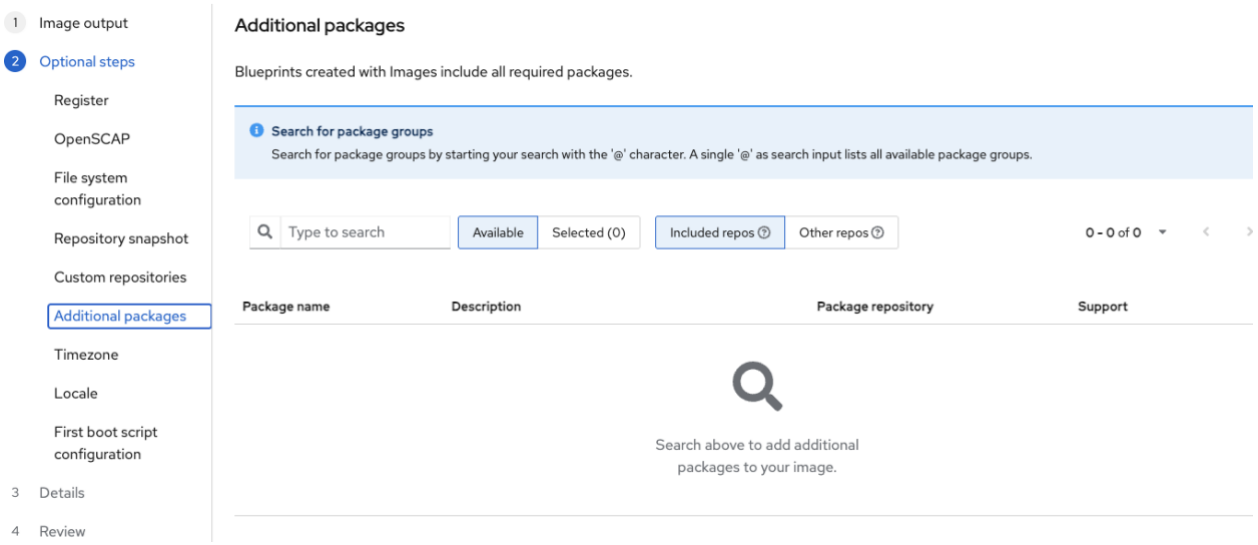
- **Repository Snapshot:** You can select Use latest contest unless you have a snapshot with target date and existing images.



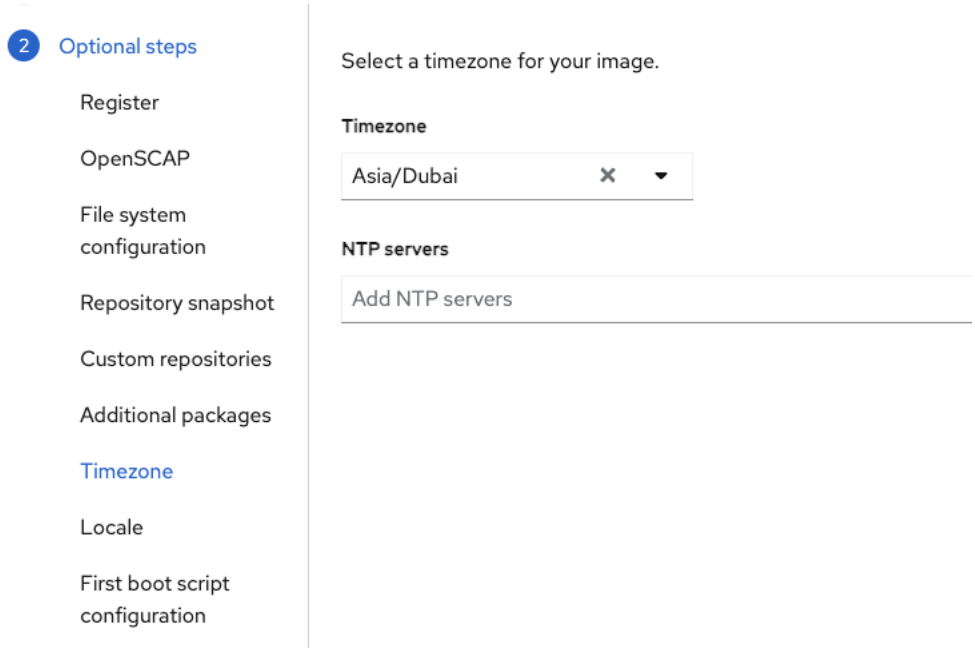
- You can add any **custom repositories** if you have already. Otherwise, you can leave it blank to get the latest repository available in the system.



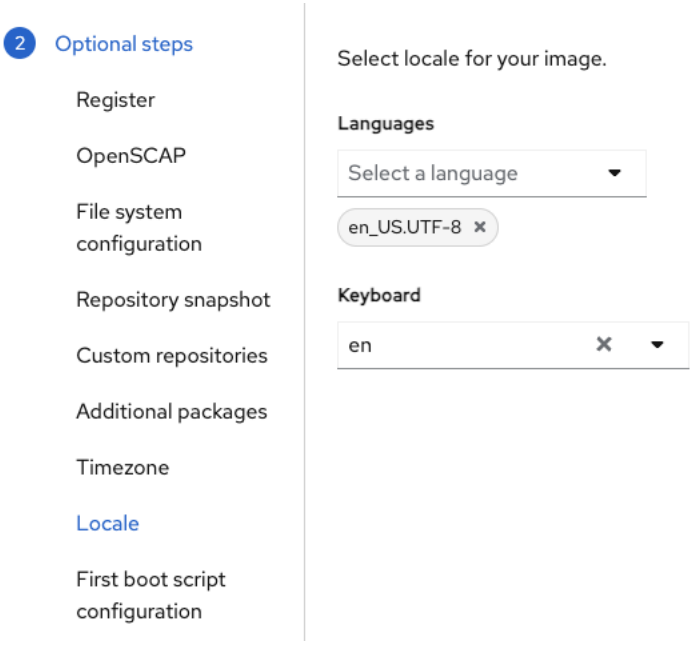
- Blueprint has all packages included in the images. you can search and packages in the additional package section.



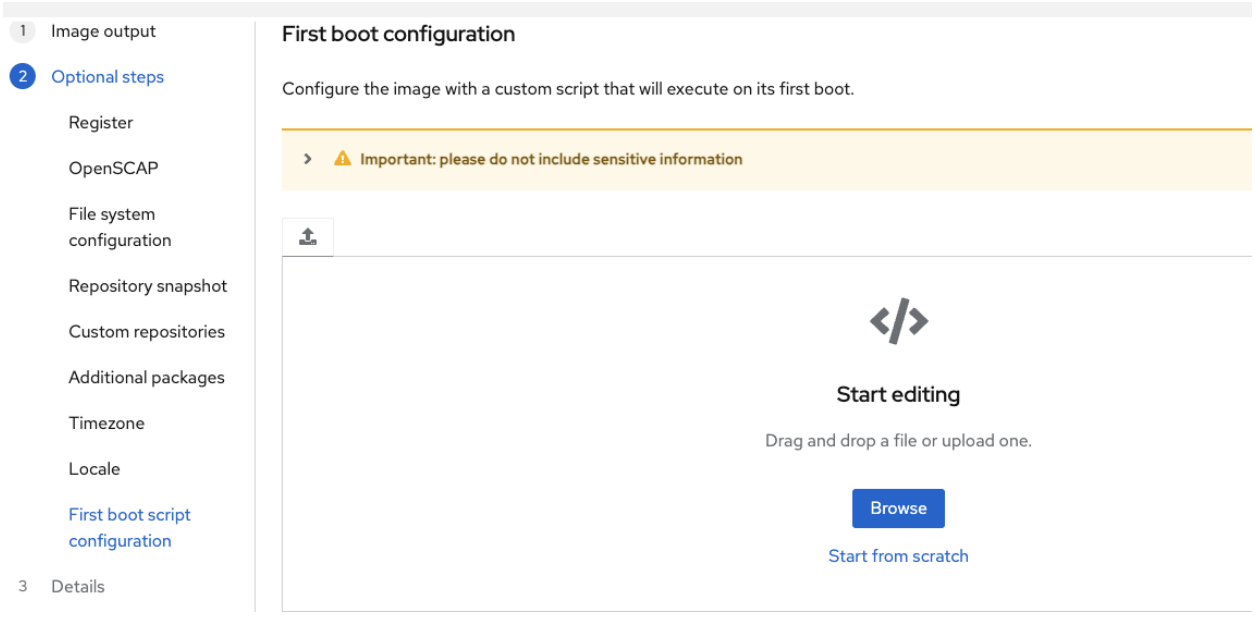
- You can select **Timezone** as per your location and requirement. Additionally, you can set **NTP Server** in this section.



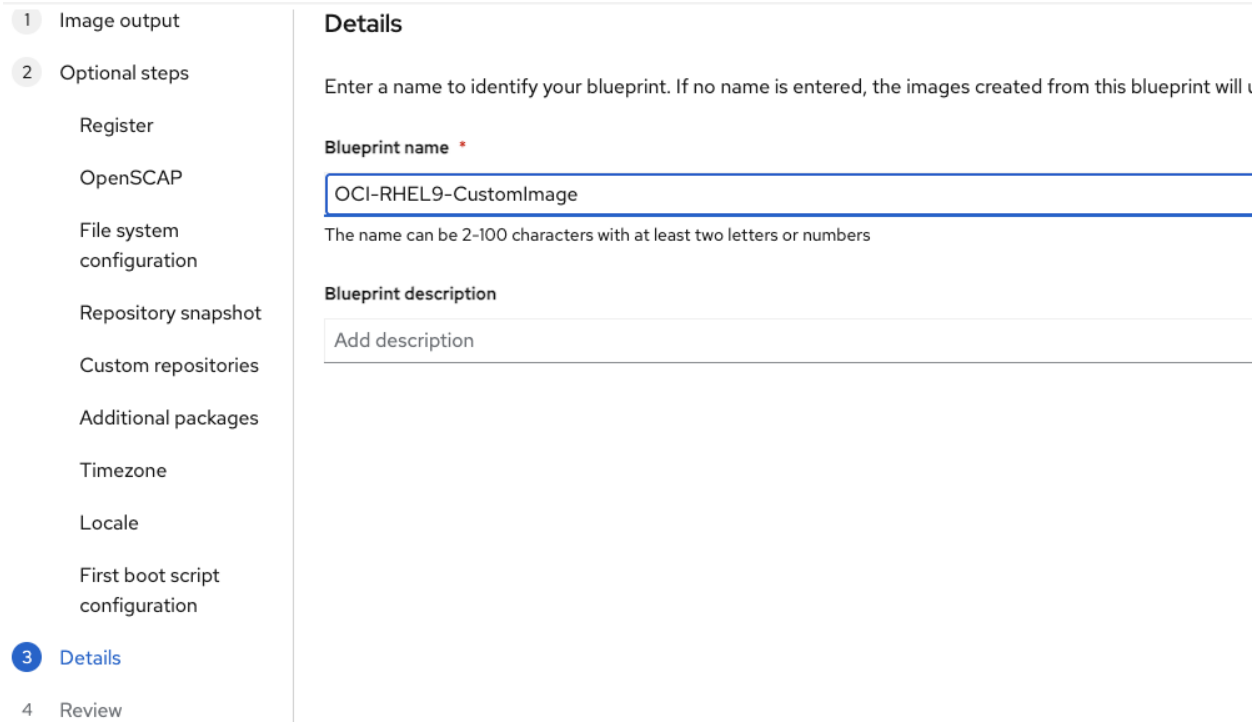
- You can select locale settings by selecting **Language and Keyboard.**



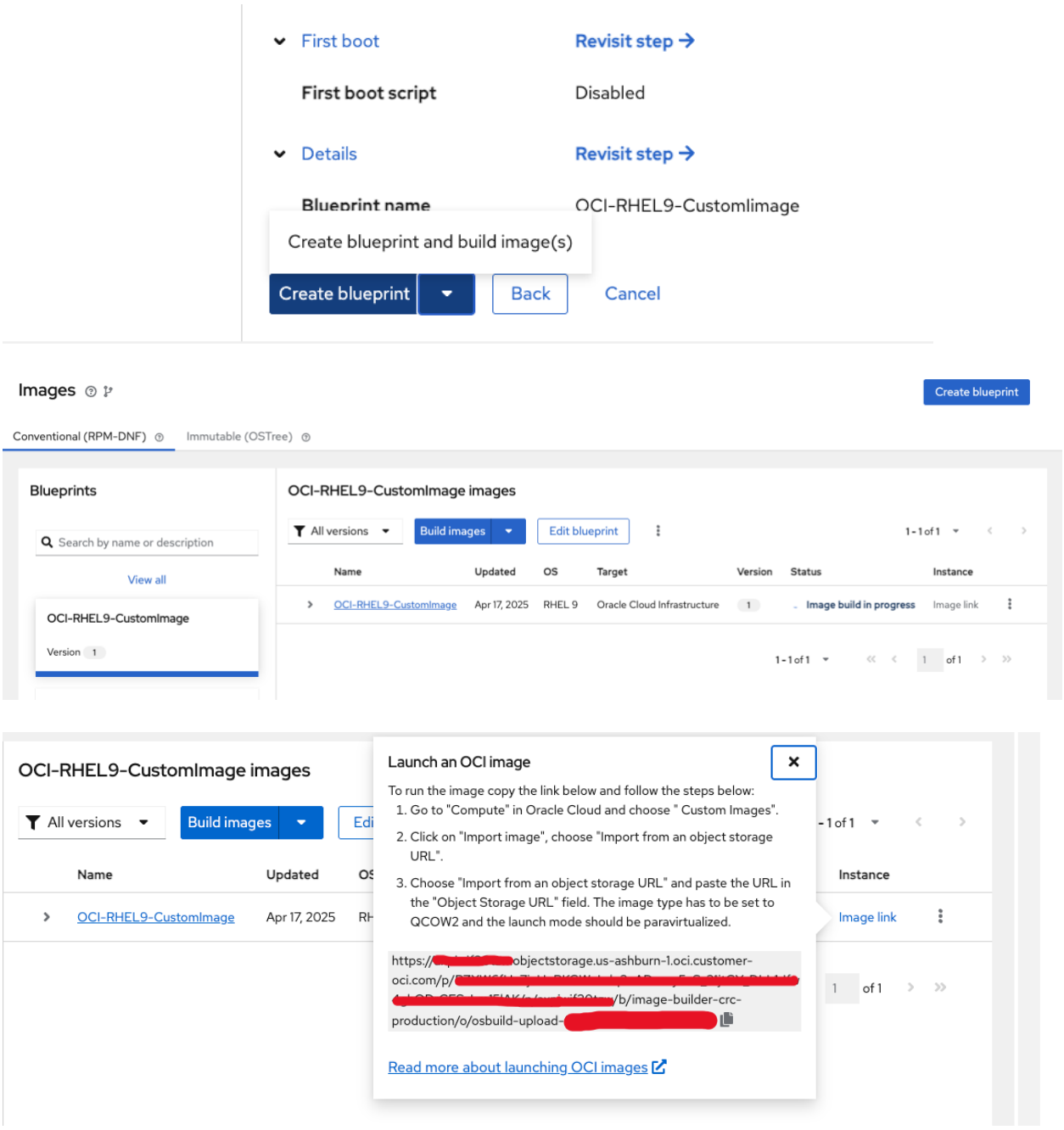
- You can upload or write a **custom script** to be executed on the first boot of OS.



- You can give any **Name and Description to Blueprint in Details** section.



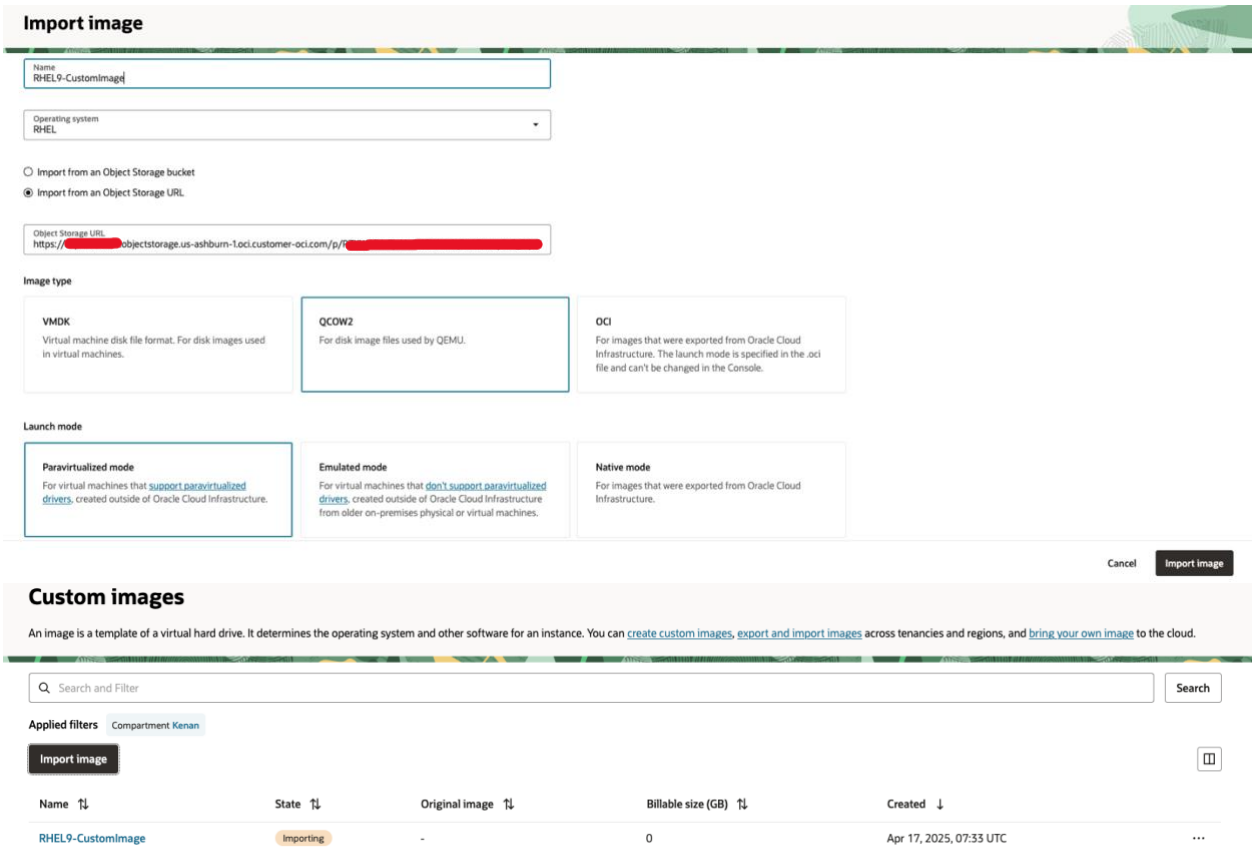
- After you review the settings, **Select Create Blueprint and Build Images**. It will start image creation process. You can Monitor the image build progress under Images. It will take 10-15 minutes to complete. When image is ready, you will able to see Image Link associated to OCI Object Storage URL.



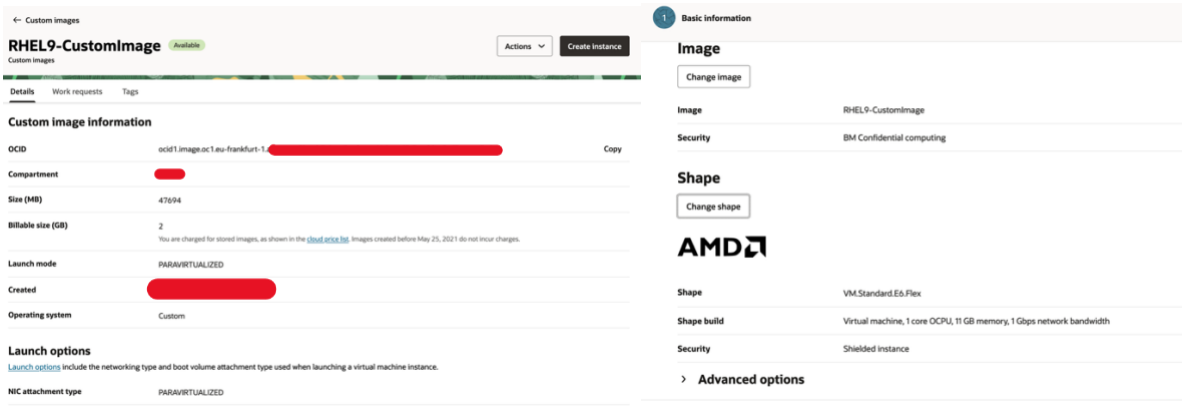
1.2 Creating Custom Image in OCI Console

Now we can connect to OCI Console and Import the image as Custom Image.

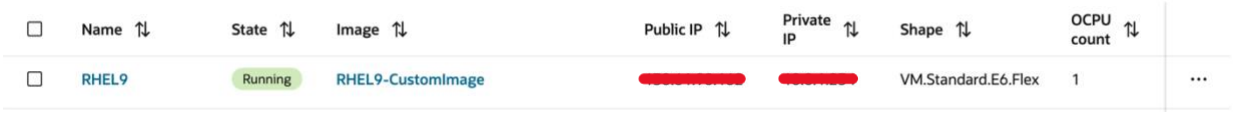
- Navigate to **Compute → Custom Images → Import Image** and **Upload the Image** by selecting given **URL**. Import process will take some time up to 20 minutes.



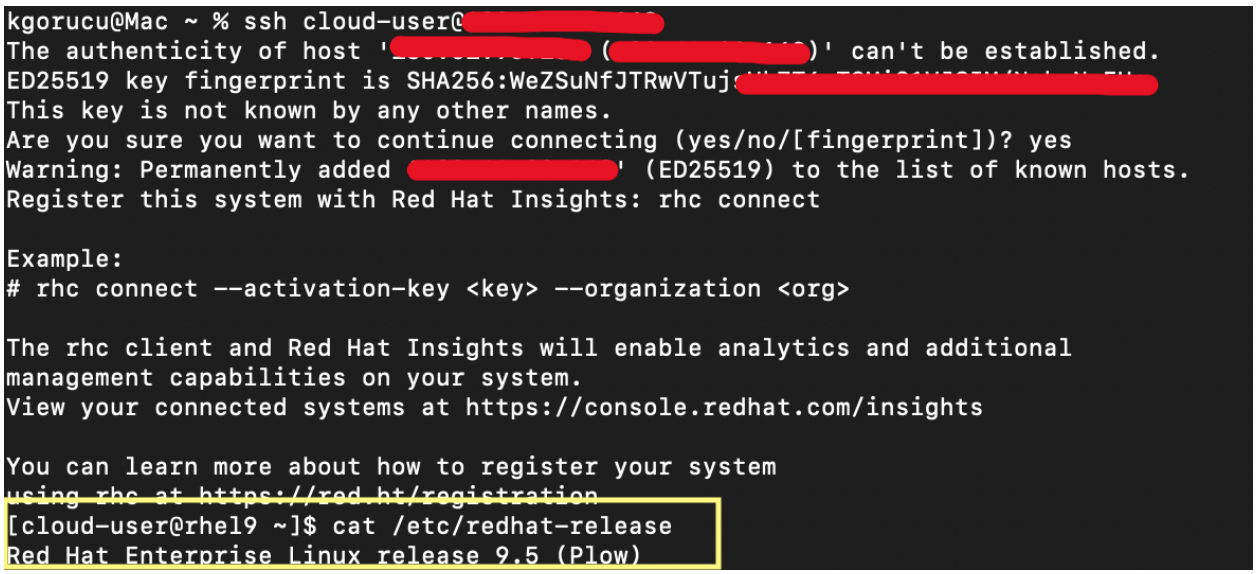
- After successful upload, **Custom Image** will be Available. You can begin creating the Compute instance from this image now. After submitting the request, Instance will be created from RHEL9 Custom Image.



- Now, the Instance is ready and built from RHEL9.



- You can verify the **OS version** by connecting it via ssh. Run the command **#cat /etc/redhat-release**. Important note is user must be **cloud-user**.



- Complete! We have RHEL9 OS running on OCI as a Custom Image! You can proceed with hardening and standardizing the OS.

1.3 Known and Potential Issues

- Do not change any configuration related to NetworkManager services manually like hardening /etc/resolv.conf. It will lead critical problems while resolving DNS and reaching out to other instances or on premises servers.