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OCI Enablement Product Manager

Module Objectives

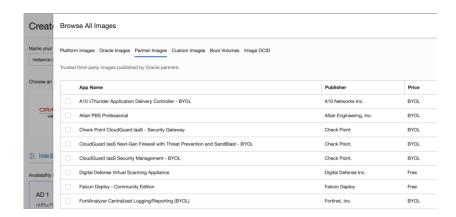
Managing custom images

Disaster considerations

Cross-region copy using Object Storage

Which process and why?

- Import images
- Create custom images on OCI
- Use published images with User Data
- Market place image





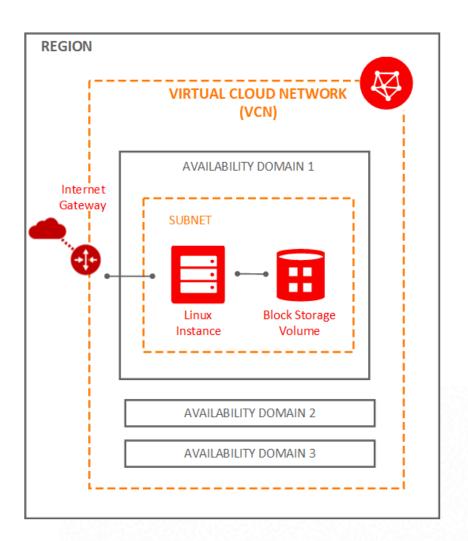
Virtual Machine

Custom Image



Best practice for instance

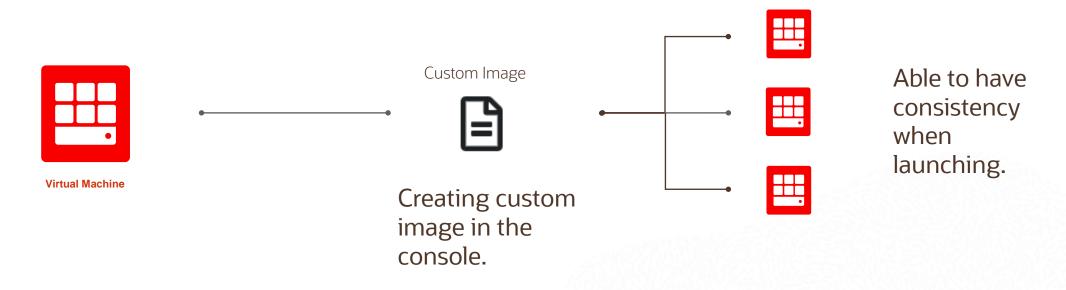
- Security encryption in transit and at rest
- Locking down rules upon creation
 - SSH for linux
 - RDP for Windows
- Patching instance
 - Running update when created
 - Regular patching





Managing custom images

- Custom Image = Boot Volume
- Secondary volumes managed separately (backup or clone block volumes)
- Instance Configuration can be used to connect image with block volume backups



Custom image with User Data

- Launching instance
- Click on advanced options
- Add script to configure the instance

User data
You can choose to specify a startup script that will run when your instance boots up or restarts. Startup scripts can be used to install software and updates, and to ensure that services are running within the virtual machine.
• Choose cloud-init script file Paste cloud-init script
Drop files here
Choose File

User Data

User data

You can choose to specify a startup script that will run when your instance boots up or restarts. Startup scripts can be used to install software and updates, and to ensure that services are running within the virtual machine.

Choose cloud-init script file Paste cloud-init script

```
#!/bin/bash
touch /var/tmp/userdata.`date +%s`.start
yum -y install httpd
systemctl enable httpd.service
systemctl start httpd.service
echo '<h2 align=center>Hello, world! Welcome to WebServer</h2>' >> /var/www/html/index.html
echo '<br>o'<br>table align=center border=1>to><br>'>> /var/www/html/index.html
hostname >> /var/www/html/index.html
echo '<b>os release: </b>' >> /var/www/html/index.html
cat /etc/os-release >> /var/www/html/index.html
echo '<b>network info: </b>' >> /var/www/html/index.html
ip addr show >> /var/www/html/index.html 2>&1
curl ifconfig.co >> /var/www/html/index.html
ifconfig -a | grep -ie flags -ie netmask >> /var/www/html/index.html
echo '<b>ifconfig.co: </b>' >> /var/www/html/index.html
curl ifconfig.co >> /var/www/html/index.html
echo ''
curl -s -w '%{http_code}\n' 'http://127.0.0.1:80' | tee -a /home/opc/httptest.log
touch /var/tmp/userdata.`date +%s`.finish
```

Example output from the instance creation

```
[opc@instance-20191202-1341 ~]$ curl 127.0.0.1
<h2 align=center>Hello, world! Welcome to WebServer</h2>
<br><br>>to>hostname: </b>
instance-20191202-1341
NAME="Oracle Linux Server"
VERSION="7.7"
ID="ol"
ID LIKE="fedora"
VARIANT="Server"
VARIANT ID="server"
VERSION ID="7.7"
PRETTY NAME="Oracle Linux Server 7.7"
ANSI COLOR="0:31"
CPE NAME="cpe:/o:oracle:linux:7:7:server"
HOME URL="https://linux.oracle.com/"
BUG REPORT URL="https://bugzilla.oracle.com/"
ORACLE BUGZILLA PRODUCT="Oracle Linux 7"
ORACLE BUGZILLA PRODUCT VERSION=7.7
ORACLE SUPPORT PRODUCT="Oracle Linux"
ORACLE SUPPORT PRODUCT VERSION=7.7
<br/>b>network info: </b><br/>
129.146.161.136
ens3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 9000
      inet 192.168.10.4 netmask 255.255.255.0
                                           broadcast 192.168.10.255
lo: flags=73<UP.LOOPBACK.RUNNING> mtu 65536
      inet 127.0.0.1 netmask 255.0.0.0
<br/>fconfig.co: </b>
129.146.161.136
```

Disaster considerations

- Cross-region copy of your instance/ custom image
- Taking your current data and migrating to another region

This can be done with Object Storage by using copy



US East

Knowledge Check

What is required in order to migrate custom image to another region?

- A. FastConnect from one region to region.
- B. Pre authenticated request for an object in the other region.
- C. Create an instance configuration that will launch the instance in a new region.
- D. Launch an instance in the new region to copy data.

ORACLE Cloud Infrastructure

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