iRedhat Template MOP

1. **Update packages**

sudo dnf update

1. **Install cloud init**

sudo dnf install cloud-init

1. **Install MySQL Server**

sudo dnf install -y mysql-server

1. **Enable and Start MySQL**

sudo systemctl start mysqld.service  
sudo systemctl enable mysqld.service

1. **Secure MySQL Installation**

sudo mysql\_secure\_installation

1. **Create a Default Database and User**

sudo mysql -u root -p  
CREATE DATABASE classdb;  
CREATE USER 'classuser'@'localhost' IDENTIFIED BY 'P@SSWORD!';  
GRANT ALL PRIVILEGES ON classdb.\* TO 'classuser'@'localhost';  
FLUSH PRIVILEGES;  
EXIT;

1. **Confirm Installation**

mysql -u classuser -p -e "SHOW DATABASES;"

1. **Remove the ssh host keys**

cd /etc/ssh

sudo rm ssh\_host\_\*

1. **Delete the machine id if it exists**

sudo truncate –s 0 /etc/machine-id

Command should return nothing: cat /etc/machine-id

1. **Confirm machine id link is just a link**

ls –l /var/lib/dbus/machine-id

Needs to start with l

lrwxrwxrwx

1. **If it is not a link, then create the link**

sudo ln –s /etc/machine-id /var/lib/dbus/machine-id

1. **Clean image before turning into template**

sudo dnf clean all

sudo dnf autoremove

1. **Revert state of cloud-init to first boot so it will create SSH host keys**

sudo cloud-init clean

1. **Shutdown VM**

sudo poweroff

1. **Convert to template**

Right click the VM and select Convert to Template

1. **Remove ISO drive that initial VM was installed with**

Hardware -> CD/DVD Drve (ISO file) -> Edit -> Do not use any media

1. **Add cloud init drive**

Hardware -> Add -> CloudInit Drvie -> Storage (main disk)

1. **Set Cloud-init username and password**

Cloud-init -> User -> Password

1. **Set cloud init to use DHCP so IP addresses will be automatically assigned**

Ubuntu template -> Cloud-Init -> IP Config (double click) -> DHCP