# 1. Install RHEL 7.9 using HOS-RHEL-7-9-ISO-2021-12-14-1639512292-Z-PRODUCTION.iso (you may need to expand /var after installation)

## lvextend -r +L 10G /dev/mapper/VolGroup-lv\_var

# 2. Mount cdrom:

## blkid # Look for /dev/sr? the use that in the next command mount /dev/sr1 /mnt

# 3. Install packages

## yum install -y curl policycoreutils-python openssh-server perl yum-utils stunnel

# 4. Enable OpenSSH server daemon if not enabled:

## systemctl status sshd

## systemctl enable sshd

## systemctl start sshd

# 5. Check if opening the firewall is needed with:

## systemctl status firewalld

## firewall-cmd --permanent --add-service=http

## firewall-cmd --permanent --add-service=https

## systemctl reload firewalld

# 6. Make sure the hostname is set to something that will resolve:

## hostnamectl --static set-hostname foo.bar.com

# 7. Install gitlab-ee

## EXTERNAL\_URL=<http://foo.bar.com> yum localinstall -y gitlab-ee-14.6.2-ee.0.el7.x86\_64.rpm

# 8. Within 24 hours, retrieve the initial password:

## cat /etc/gitlab/initial\_root\_password

# 9. Configure stunnel to handle encryption to ldap:

## cat << EOT >> /etc/stunnel/ldaps.conf

## options = NO\_SSLv2

## sslVersion = TLSv1.2

## [ldaps]

## client = yes

## accept = 389

## connect = idm.bar.com:636 EOT

## cat << EOT >> [/etc/systemd/system/stunnel@.service](mailto:/etc/systemd/system/stunnel@.service)

## [Unit]

## Description=SSL tunnel for network daemons

## After=network.target

## After=syslog.target

## [Install]

## WantedBy=multi-user.target

## Alias=stunnel.target

## [Service]

## Type=forking

## ExecStart=/usr/bin/stunnel /etc/stunnel/%i.conf

## ExecStop=/usr/bin/killall -9 stunnel

## TimeoutSec=600

## Restart=always

## PrivateTmp=false

## EOT

## systemctl daemon-reload

## systemctl enable --now stunnel@ldaps

# 10. Modify /etc/gitlab/gitlab.rb to enable ldap:

## gitlab\_rails['ldap\_servers'] = YAML.load <<-'EOS'

## main: # 'main' is the GitLab 'provider ID' of this LDAP server

## label: 'LDAP'

## host: '127.0.0.1'

## port: 389

## uid: 'uid'

## bind\_dn: 'uid=bind\_user,cn=users,cn=accounts,dc=bar,dc=com'

## password: ''

## encryption: 'plain' # "start\_tls" or "simple\_tls" or "plain"

## verify\_certificates: false

## base: 'cn=users,cn=accounts,dc=bar,dc=com'

## user\_filter: '(memberOf=cn=gitlab\_users,cn=groups,cn=accounts,dc=bar,dc=com)'

## EOS

# 11. Reconfigure gitlab and check for ldap:

## gitlab-ctl reconfigure

## gitlab-rake gitlab:ldap:check