



Installations



Obtaining RedHat Installation Media

- Download files from URL
 - Curl
 - wget
- Download DVD ISO from mirrors
 - Contains stable versions of rpms
 - https://developers.redhat.com

Writing ISO Installation Image to USB Drive

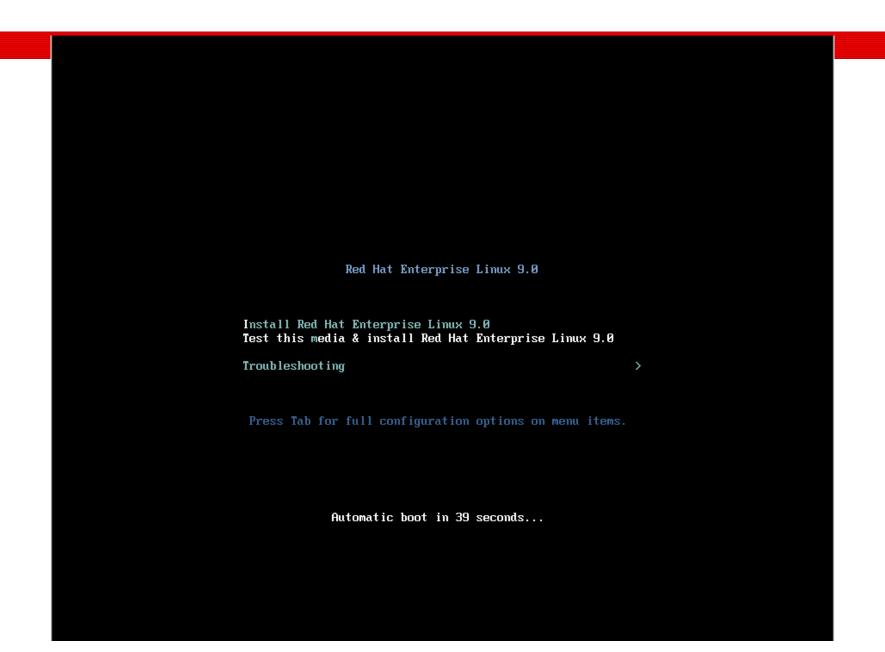
- From Windows
 - Download any disk creator
- From Mac OS
 - Download any disk creator
 - Or use of DD command
- From any other Linuxes
 - Use DD command
- Make sure PC / Server can boot from USB drive



Installing RedHat

- Dual Boot
- Via Virtualization software
 - Vmware Workstation
 - Vmware Vsphere
 - Oracle VirtualBox
 - OpenKVM
 - Microsoft VirtualPC / HyperV
 - QEMU
- Docker Containerization

Test media

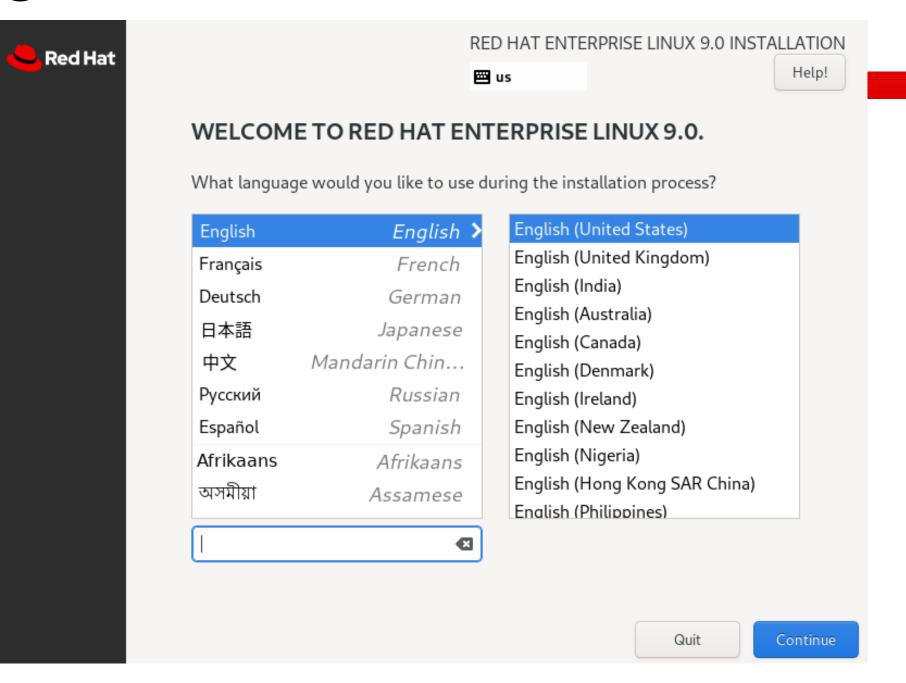


The installation screen

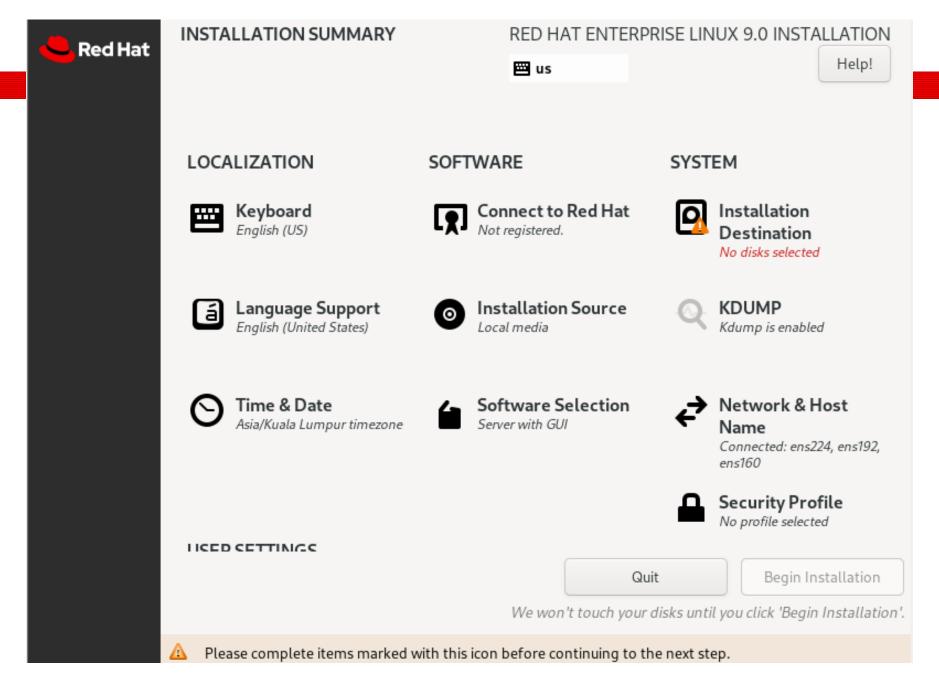
- Language & Locale selection
- Country / Regional settings
- Time zone
- Date & Time
- Keyboard layout
- Kernel Dumps
- Network configuration

- Software Packages
- Security Profiles
- Partitioning
 - LVM
 - LVM Thin Provisioning
 - RAID
 - Type of File System
 - Mount point (Folder)
- User Settings

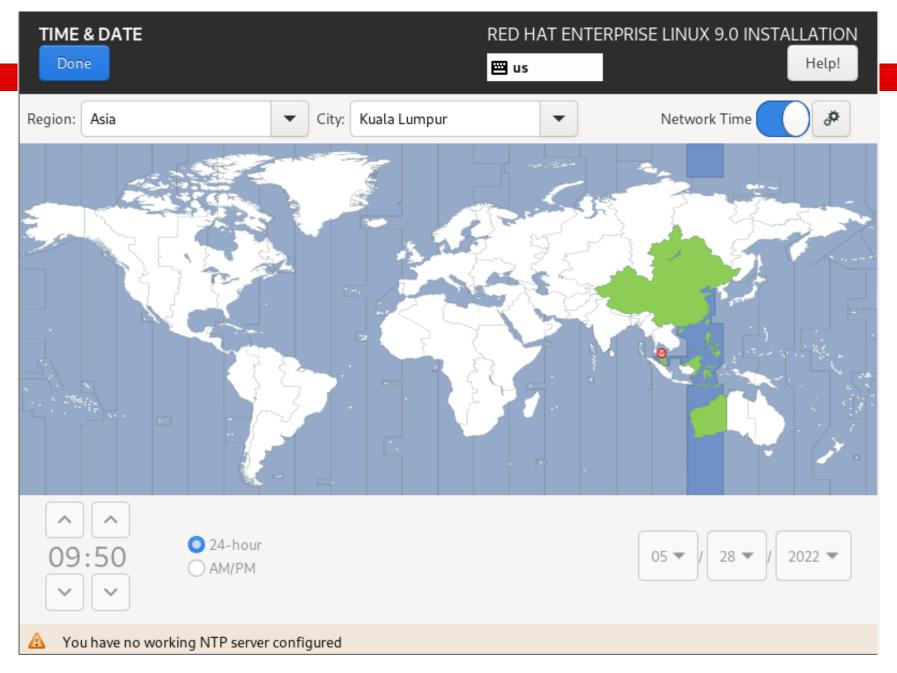
Language & Locale selection



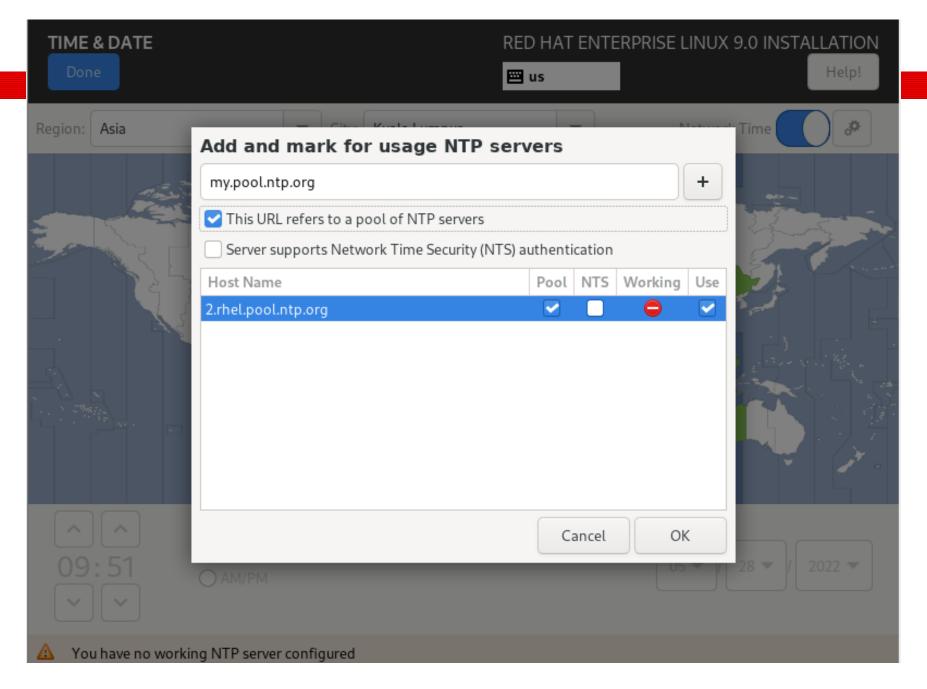
Installation Summary



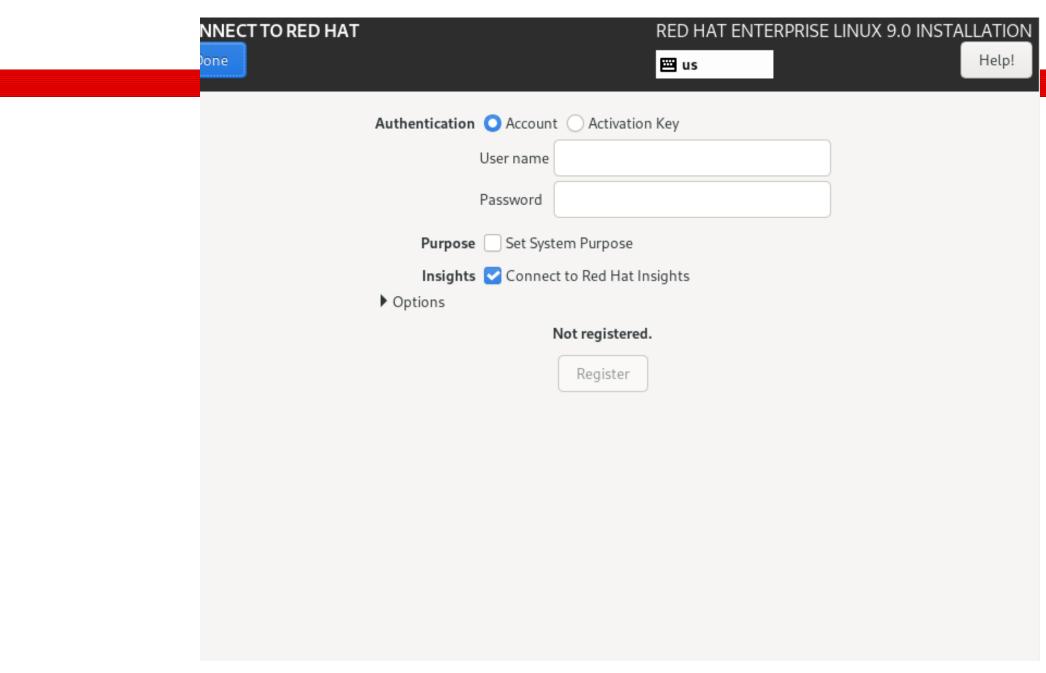
Time, Date and Timezone



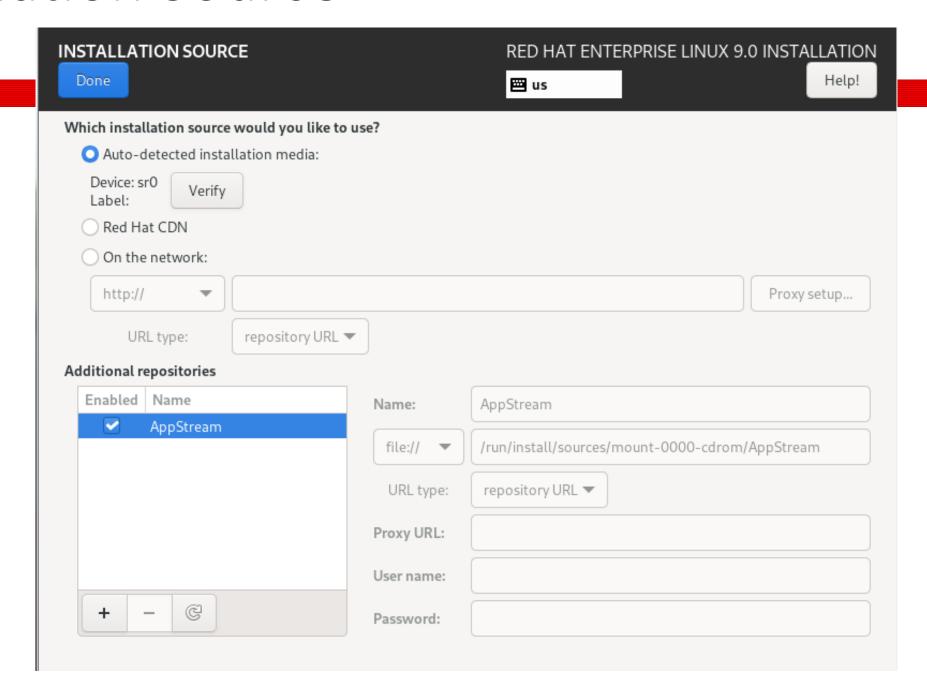
NTP Configuration



Register for support



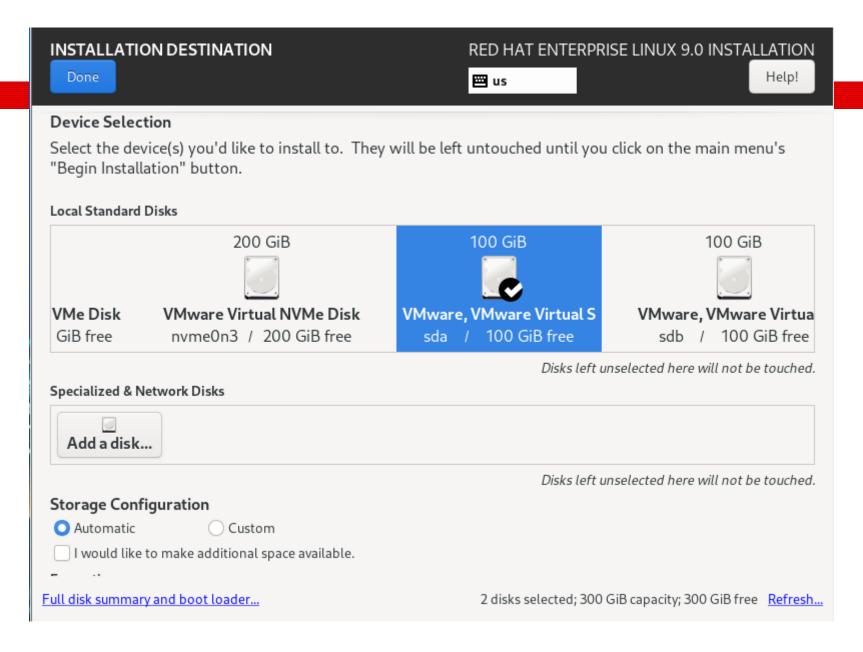
Installation Source



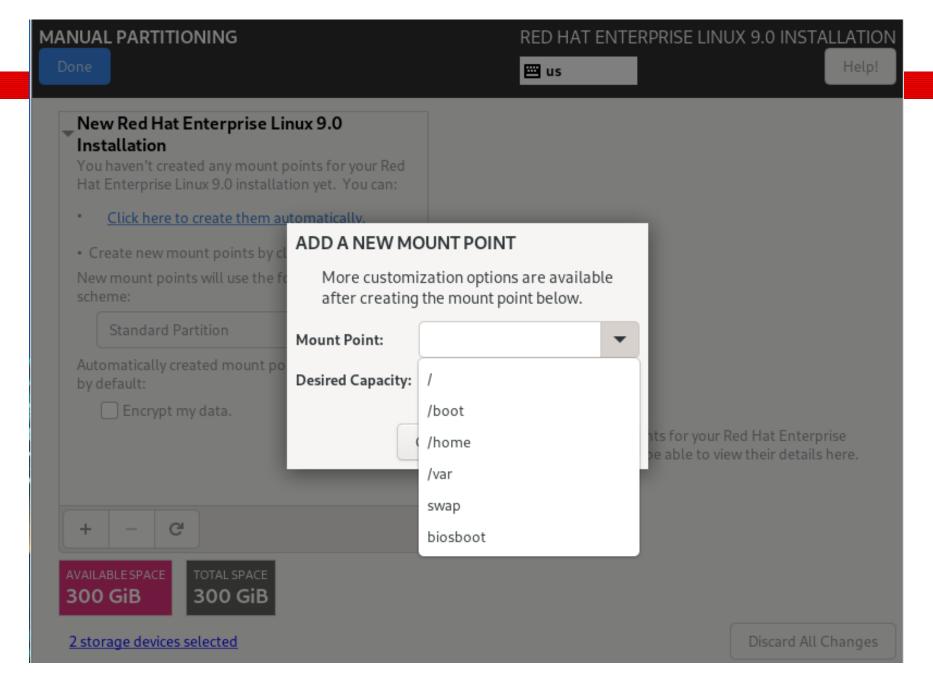
Software Group and Package selection

Done Done	RED HAT ENTERPRISE LINUX 9.0 INSTALLATI
Base Environment	Additional software for Selected Environment
Server with GUI An integrated, easy-to-manage server with a graphical interface. Server An integrated, easy-to-manage server. Minimal Install Basic functionality. Workstation Workstation is a user-friendly desktop system for laptops and PCs. Custom Operating System Basic building block for a custom RHEL system. Virtualization Host Minimal virtualization host.	Debugging Tools Tools for debugging misbehaving applications and diagnosing performance problems. DNS Name Server This package group allows you to run a DNS name server (BIND) on the system. File and Storage Server CIFS, SMB, NFS, iSCSI, iSER, and iSNS network storage server. FTP Server These tools allow you to run an FTP server on the system. Guest Agents Agents used when running under a hypervisor. Infiniband Support Software designed for supporting clustering, grid connectivity, and low-latency, high bandwidth storage using RDMA-based InfiniBand, iWARP, RoCE, and OPA fabrics. Mail Server These packages allow you to configure an IMAP or SMTP mail server. Network File System Client

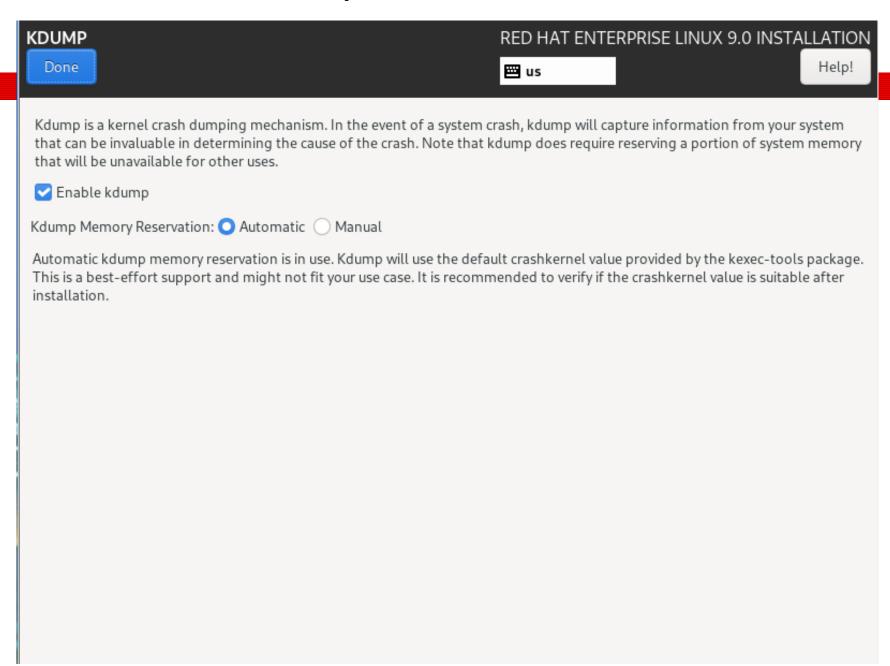
Installation Destination



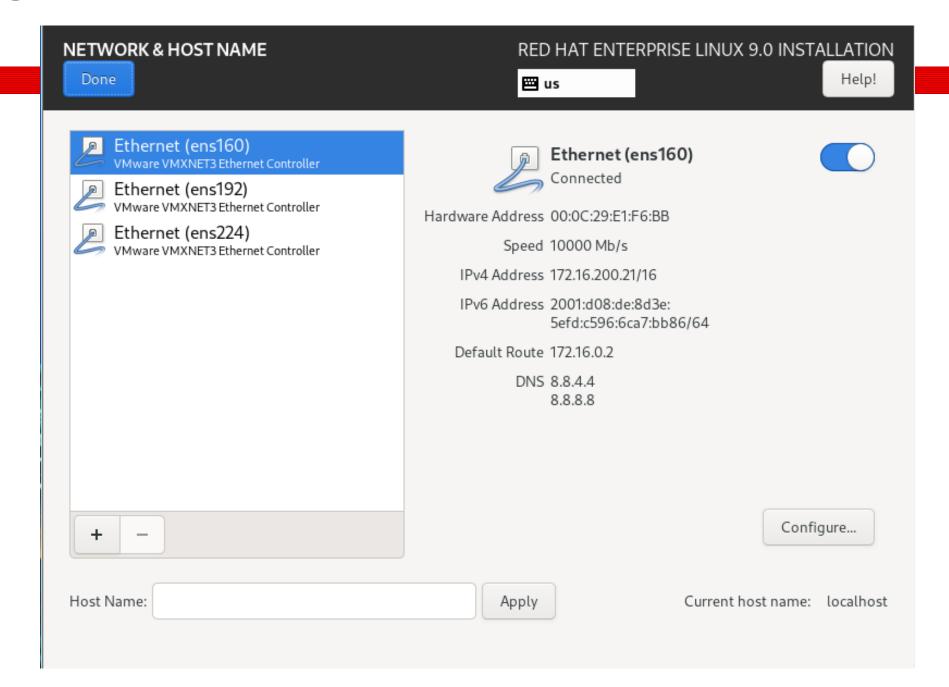
Customize the partition



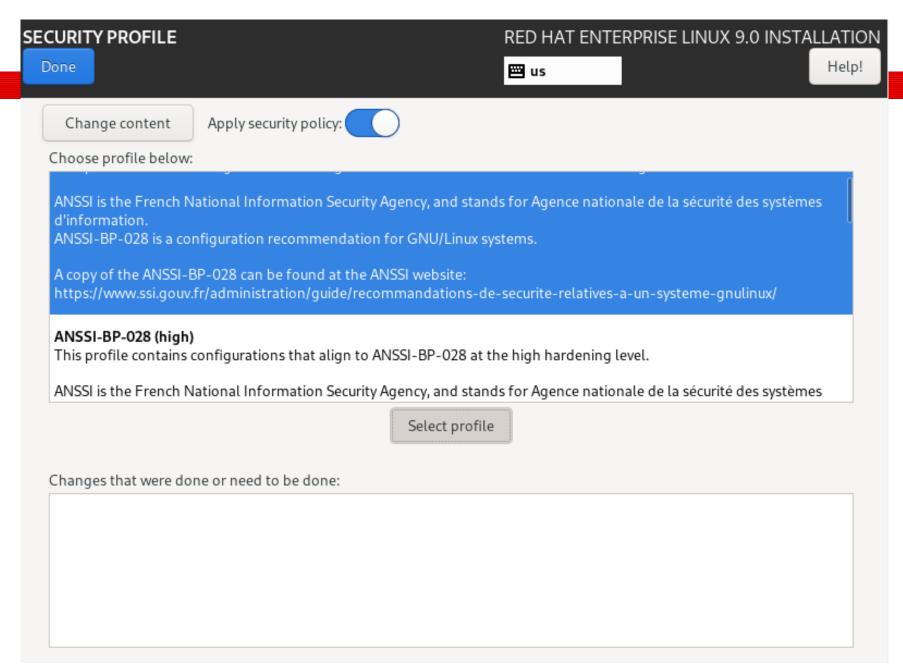
Enable Kernel Dump



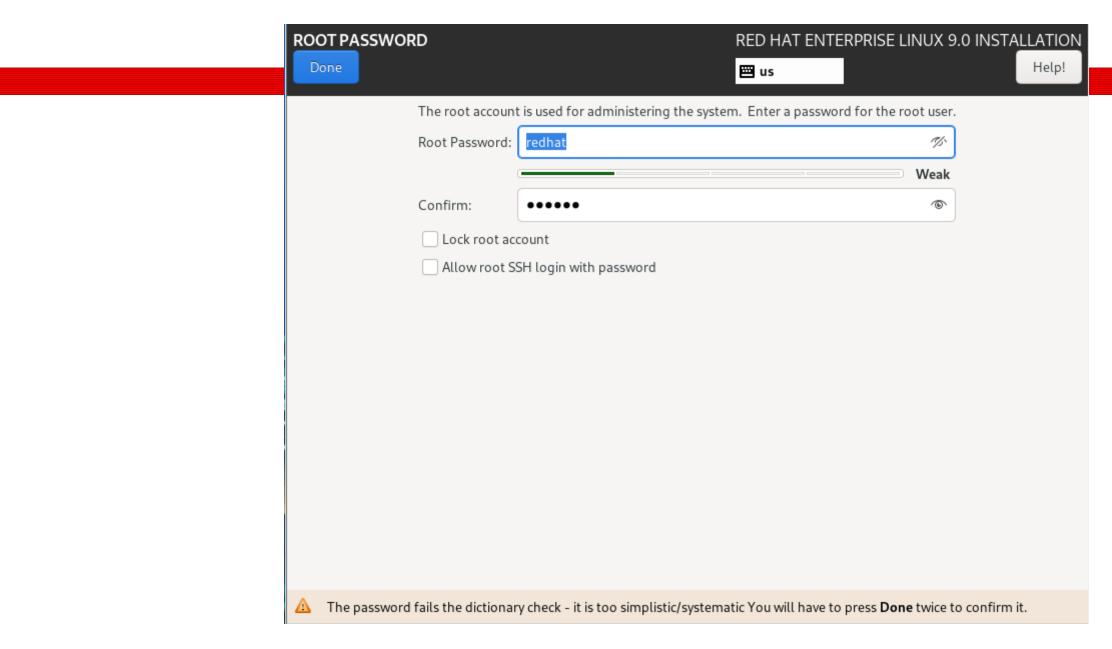
Configure network and hostname



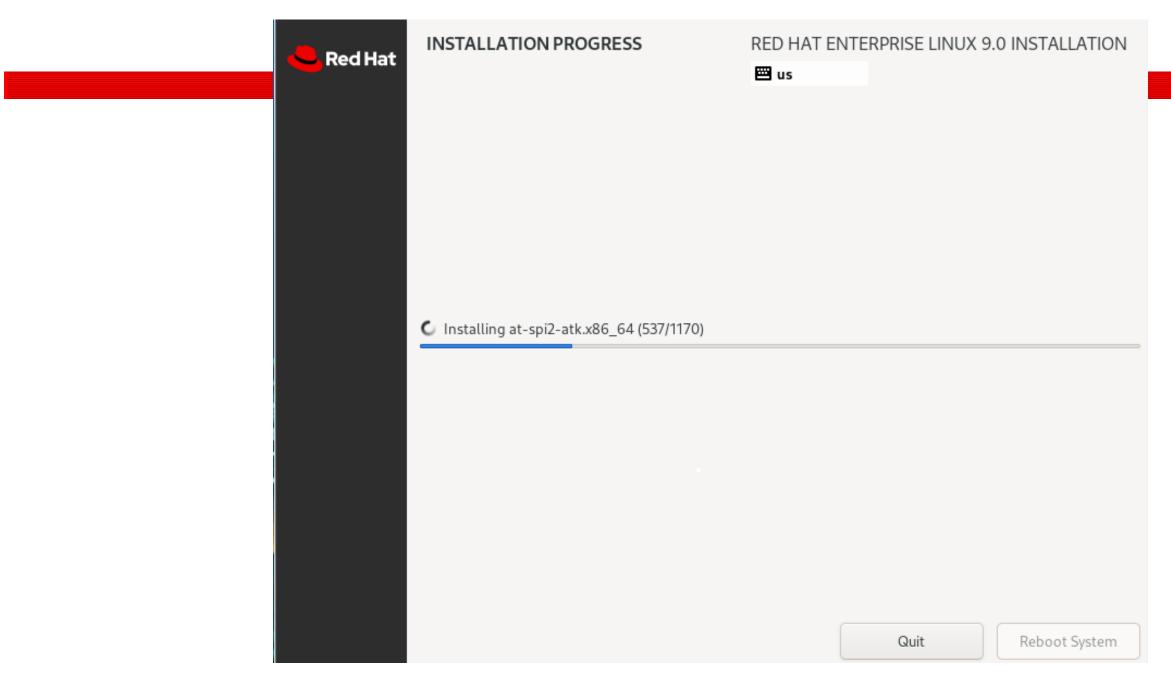
Configure Security Profile



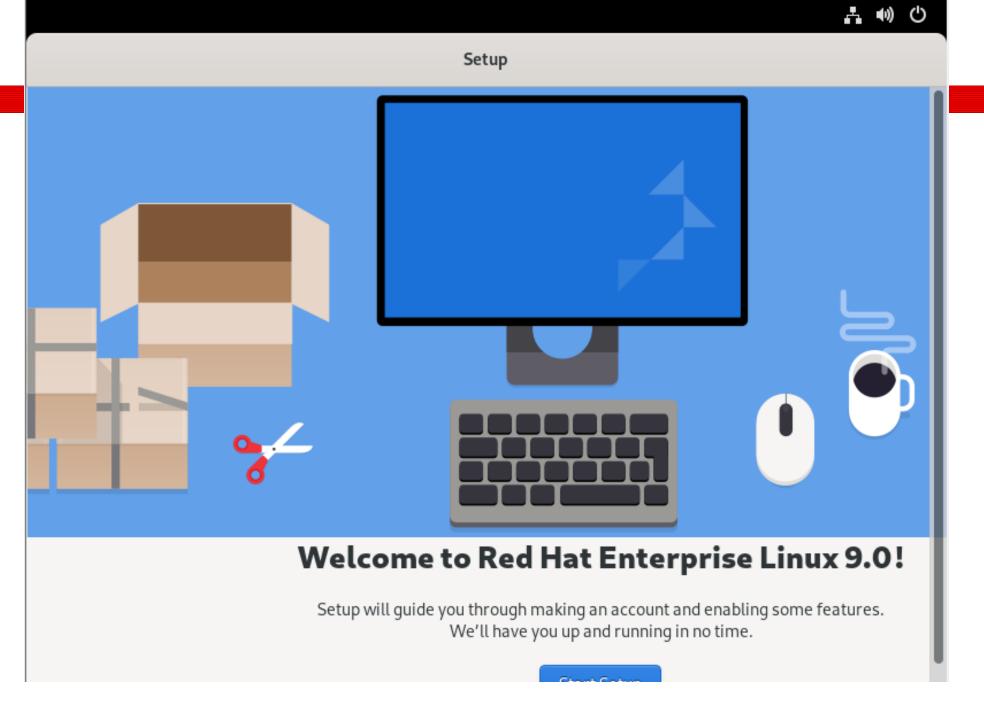
Configure Root account



The installation progress



Initial <u>setun</u>

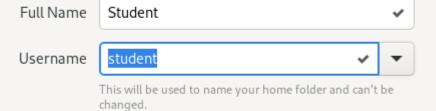




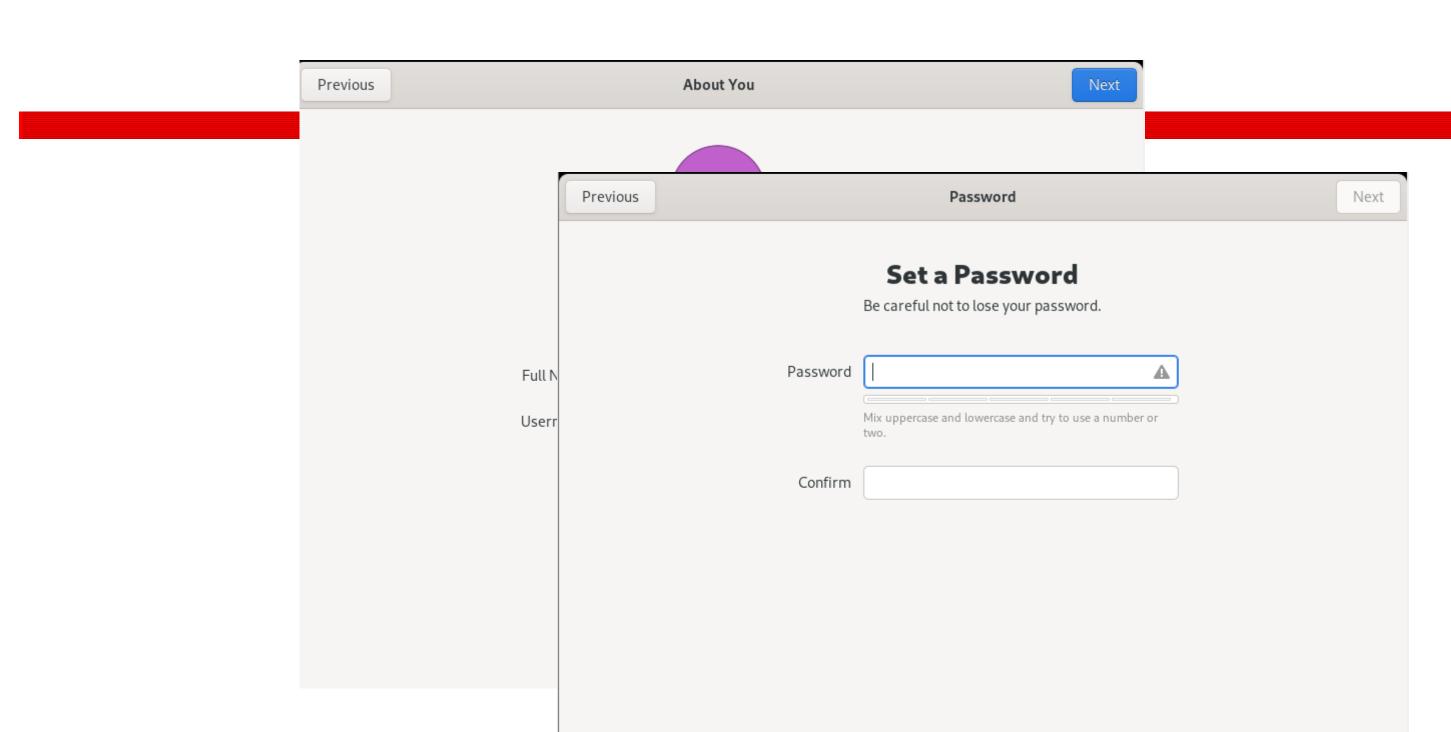


About You

We need a few details to complete setup.



Enterprise Login



Post Installations Configuration

- Collect system information
- Configure repository
- Install Updates
- Install more packages
- Subscribe to RHN (Optional)

Collect system information

- Verify OS release and versions
 - cat /etc/*release
- Verify kernel version
 - uname -a
- Check hostname
 - hostname
- Collect cpu, memory information
 - cat /proc/meminfo
 - cat /proc/cpuinfo

- Verify File system creation
 - df –k
 - mount
- Verify processes
 - ps -ef
 - top

RHEL Image Buidler - Composer

- Build custom system images
- Support variety of format (qcow2)
- Compatible with major cloud providers and virtualization
- Demo: <a href="https://developers.redhat.com/blog/2019/05/08/red-hat-enterprise-linux-8-image-builder-building-custom-system-images#creating a custom image using the web console

Subscribe to RHSM (legacy RHN)

- Create account developer.redhat.com
 - by default every subscription last for 1 year
 - by default each subscription entitled to 16 systems / devices.
 - Can remove entitled system from developer.redhat.com

Register and attach

```
# subscription-manager register (enter username and password)
# subscription-manager attach --auto
# dnf list
```

Configure repository

- Point to RedHat yum repository
- Point to Fedora Core
- Point to local storage (DVD)
- Point to remote storage (NFS / CIFS)

Point to RedHat yum repository

- RedHat installation pre-configured some yum repository
- Install Extra Packages repo from Fedora Core
 - dnf install –y https://dl.fedoraproject.org/pub/epel/epelrelease-latest-8.noarch.rpm
- All repo configuration in
 - /etc/yum.repos.d/ sub directory
 - Must ends with .repo extension

Example of RedHat-baseos.repo

```
[baseos]
name="baseos"
baseurl=http://rhgls.domain18.example.com/BaseOS
enabled=1
gpgcheck=1
gpgkey=http://rhgls.domain18.example.com/RPM-GPG-KEY-RedHatofficial
```

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 - a) Floppy drive
 - b) ISO
 - c) Thumb drive
 - d) repository

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 - b) Download and install more packages from the net
 - c) Look for bugs
 - d) Collect system information

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