## VM Setup:

Allocate approximately 4 GB of RAM, 2 virtual CPU cores, and 20 GB of hard drive space. Install Artix-base (runit version) Linux using text mode instructions. Post-Installation Configuration:

Enable ArchLinux repositories.

Install essential packages: binutils, elfutils, gcc, gdb, make, automake, autoconf, yasm, and vim. Kernel Compilation:

Download the Linux kernel from kernel.org.

Use the provided kernel config.

Clean build artifacts with 'make mrproper'.

Copy and configure the kernel using 'config-rev-9-gold'.

Compile the kernel with 'make -j\$(nproc)'.

Verify Boot:

Ensure the compiled Linux kernel successfully boots on your VM. For VMware (Optional):

Remove unnecessary devices: Printer, SoundCard, USB Controller. For VirtualBox (Optional):

Disable the sound card in VM settings.

These steps will set up your VM for further testing and development.