

# CIRC Wiki - Hangtown Windows 11 Development Virtual Machine

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## Installation

Reference: [SysGuides](#)

### Prerequisite

- Windows11 ISO on host's /opt
- virtio-win.0.127.iso on /opt

### OS Setup

- In Virtual Machine Manager, press '+' to Create a new virtual machine
- Select Local install media (ISO)
- Select Architecture: x86-64
- Press [Forward]
- [Browse] to /opt and select Win11\_24H2\_English\_x64.iso
- Press [Choose Volume]
- If Microsoft Windows 11 has not been detected, specify
- Press [Forward]
- Specify 8192 MB (half) and 3 CPUs (available minus 1)
- Press [Forward]
- Specify 256 GB virtual disk image
- Press [Forward]
- Specify name: Hangtown and NAT Network
- Check [Customize]
- Press [Finish]
- Customize VM Installation
- Overview Tab, Details
  - Make sure Q35 and UEFI are selected
- Overview Tab, XML
  - section

```
<hyperv mode="custom">
  <relaxed state="on"/>
  <vapic state="on"/>
  <spinlocks state="on" retries="8191"/>
  <vpindex state="on"/>
  <runtime state="on"/>
  <synic state="on"/>
  <stimer state="on">
    <direct state="on"/>
  </stimer>
  <reset state="on"/>
  <vendor_id state="on" value="KVM Hv"/>
```

```

<frequencies state="on"/>
<reenlightenment state="on"/>
<tlbflush state="on"/>
<ipi state="on"/>
<evmcs state="on"/>
</hyperv>

```

\* In <clock/> section, Add if necessary:

\* `<timer name="hypervclock" present="yes"/>`

\* Press [Apply]

- CPUs Tab, Details
  - Make sure check: host-passthrough
  - Press [Apply] if necessary
- SATA Disk 1, Details
  - Specify Disk bus: VirtIO
  - In Advanced options,
  - Specify Cache mode: none
  - Specify Discard mode: unmap
  - Press [Apply] if necessary
- Press [Add Hardware]
  - Select Storage
  - Select Device type: CDROM on bus: SATA
  - Press [Manage] and set Win11....iso
  - Press [Finish]
- NIC, Details
  - Specify Device model: virtio
  - Press [Apply]
- Tablet
  - Press [Remove], if present, and [Yes] to confirm
- Press [Add Hardware]
  - Channel, Details
  - Select Name: org.qemu.guest\_agent.0
  - Press [Finish]
- TPM
  - In Advanced options,
  - Select Version: 2.0
  - Press [Apply]
- Click Begin Installation
- In Hangtown Virtual Machine Installation:
  - Press [Any Key] to begin from virtual CDROM
  - Select English/US, no product key, [Accept/Next/Install], etc. for Win11 Pro installation
  - On Selecting disk destination,
    - Click Load driver
- Specify Personal, Apply Updates
- Network Setup
- Install VirtIO Drivers
- Specify fixed IP Address: 192.168.2.123

## **Baseline Software**

### **Chrome**