Goal: Kiosk USB Stick with Ubuntu OS & Vmware Workstation Pro and MS Win X Image

- Step 01: MS Win X image
 - · Create Win10 Image with software as-needed.
 - Enable autologin with 'netplwiz' MS Win control panel tool. Reboot & Confirm.
 - · Remove any vmware snapshots or older memory files (.vmem) in the current install folder.
 - Defrag & Compress Disk Image using VMware disk settings to smallest size.
 - Use 7zip to compress file & name "win10.7z" & spilt to 4GB files to avoid FAT32 challenge on USB stick.
- Step 02: Use UltraISO to edit Ubuntu ISO to create new bootable ISO with four (4) custom boot files.
 - /autoinstall/user-data &/autoinstall/meta-data [create these files ahead of time]
 - /boot/grub/grub.cfg & /boot/grub/loopback.cfg [update these files ahead of time]
- Step 03: Use Rufus with the new custom bootable ISO to a 64 GB USB stick.
- Step 04: Edit files on USB stick with Ubuntu
 - Create a folder /media & a shell script under /media/postinstall.sh [This can be edited on the fly as needed to change in stallation.]
- Step 05: Initial Validation of boot USB in a new system with auto-login (kiosk architecture)
 - Ubuntu should auto-install with no internet access. [May test with no files under /media to ensure it can auto-install the os]
 - Ubuntu desktop UI should auto-login.
 - No other files are available, but we are looking for basic confirmation first.
- Step06: Copy the following install files to /media [These files will be installed by postinstall.sh & postinstall2.sh]
 - 7z2501-linux-x64.tar.xz
 - VMware-Workstation-Full-25H2-24995812.x86_64.bundle
 - win10.7z [the 10-20 4gb split files]
- Step07: Validate the boot USB in a new system with auto-login (kiosk architecture) with post-install process.
 - Ubuntu should auto-install with no internet access.
 - Ubuntu desktop UI should auto-login.
 - Vmware Pro UI should load with the MS Win 10 image
 - MS Win 10 image should auto-start and login to desktop with no interaction.

Architecture Model: 1 USB Stick and Win10 Image 7z into many files to fit FAT32 specs Download Ubuntu Desktop ISO Use UltraISO to edit ISO Update or Create Four(4)files Save ISO to new name Use Rufus to *** About 50 MB/s minimal speed for copy of write ISO to compress 7z image, e.g. 15-20 min to copy in **128 GB USB** full. About 5-10 min to extract. Create /media folder on USB Media folder: media/debs - Ubuntu offline deb install files including 7z Drag media media/split - Vmware Image 7z split to 4GB size folder from media/VMWorkStationPro.bundle Workstation media/postinstall.sh media/postinstall2.sh Eject USB to use

Boot WK into USB UEFI

USB - Insert to WK

ISO Boot-Strap:

Goal: Auto install Ubuntu + call post-install scripts (chroot env) with a reboot action.

postinstall.sh:

Goal: Copy Files + Install minimal offline deb files + setup postinstall2.sh to run on next reboot in (chroot env)

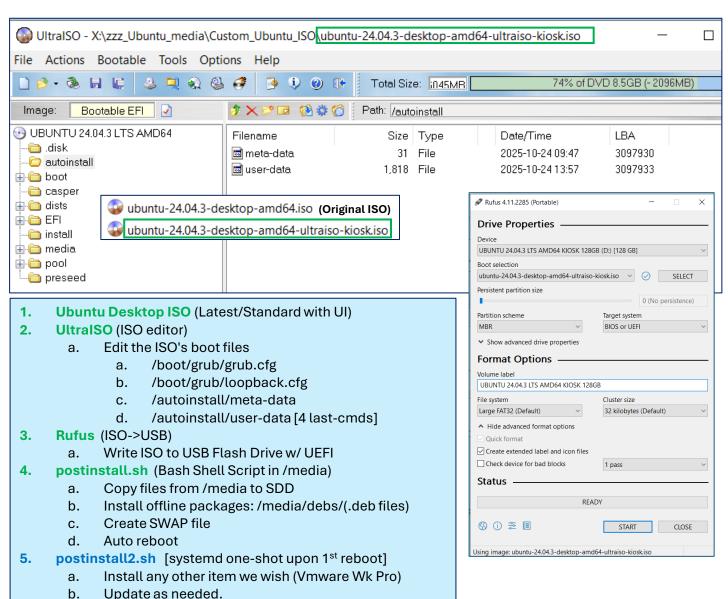
WorkStation - Auto reboot

postinstall2.sh:

Goal: Install WK Pro + Extract VM Image + Update OS UI + Desktop Links + Prompt for reboot

> Done - May Shutdown & Remove USB to test

Process & Tools Used to create Ubuntu Kiosk USB



Name	Date modified	Туре	Size
7zip_23.01+dfsg-11_amd64.deb	10/24/2025 11:36	DEB File	1,803 KB
binutils_2.42-4ubuntu2.5_amd64.deb	10/24/2025 11:36	DEB File	18 KB
binutils-common_2.42-4ubuntu2.5_amd6	10/24/2025 11:36	DEB File	235 KB
binutils-x8 /media/debs ubuntu2	10/24/2025 11:36	DEB File	2,405 KB
build-essential_12.10ubuntu1_amd64.deb	10/24/2025 11:36	DEB File	5 KB
bzip2_1.0.8-5.1build0.1_amd64.deb	10/24/2025 11:36	DEB File	34 KB
dkms_3.0.11-1ubuntu13_all.deb	10/24/2025 11:36	DEB File	51 KE
dpkg-dev_1.22.6ubuntu6.5_all.deb	10/24/2025 11:36	DEB File	1,050 KE
fakeroot_1.33-1_amd64.deb	10/24/2025 11:36	DEB File	66 KE
g++_4%3a13.2.0-7ubuntu1_amd64.deb	10/24/2025 11:36	DEB File	2 KE
g++-13_13.3.0-6ubuntu2~24.04_amd64.d	10/24/2025 11:36	DEB File	16 KE
g++-13-x86-64-linux-gnu_13.3.0-6ubunt	10/24/2025 11:36	DEB File	11,877 KE
g++-x86-64-linux-gnu_4%3a13.2.0-7ubu	10/24/2025 11:36	DEB File	1 KE
gcc_4%3a13.2.0-7ubuntu1_amd64.deb	10/24/2025 11:36	DEB File	5 KE
gcc-13_13.3.0-6ubuntu2~24.04_amd64.d	10/24/2025 11:36	DEB File	483 KE
gcc-13-x86-64-linux-gnu_13.3.0-6ubuntu	10/24/2025 11:36	DEB File	20,595 KE
gcc-x86-64-linux-gnu_4%3a13.2.0-7ubun	10/24/2025 11:36	DEB File	2 KI
libalgorithm-diff-perl_1.201-1_all.deb	10/24/2025 11:36	DEB File	41 KI
libalgorithm-diff-xs-perl_0.04-8build3_a	10/24/2025 11:36	DEB File	11 KE
libalgorithm-merge-perl_0.08-5_all.deb	10/24/2025 11:36	DEB File	12 KI
libasan8_14.2.0-4ubuntu2~24.04_amd64	10/24/2025 11:36	DEB File	2,961 KI

Note: six (6) custom files for this architecture

- Four (4) embedded in the ISO image
- Two (2) external on USB under /media

```
UBUNTU 24_0 (D:)

→ □ autoinstall

     meta-data
                            instance-id: ubuntu-autoinstall
  └ 🗐 user-data
  boot
     memtest86+x64.bin
  └ 📋 grub
     ⊢ 🗎 grub.cfg

└─ ☐ loopback.cfg
└ 🗀 media
       postinstall.sh
        postinstall2.sh
        vmware-workstation-pro-25h2.pdf
        VMware-Workstation-Full-25H2-24995812.x86 64.bundle
              (offline packages)
        7zip_23.01+dfsg-11_amd64.deb
          dkms 3.0.11-1ubuntu13 all.deb
          build-essential 12.10ubuntu1 amd64.deb
          linux-headers-6.8.0-86-generic 6.8.0-86.87 amd64.deb
          linux-headers-6.8.0-86 6.8.0-86.87 all.deb
          linux-headers-generic 6.8.0-86.87 amd64.deb
          gcc-13 13.3.0-6ubuntu2~24.04 amd64.deb
          g++-13 13.3.0-6ubuntu2~24.04 amd64.deb
          make 4.3-4.1build2 amd64.deb
        yamllint_1.33.0-1_all.deb
     psplit (Windows VM archive parts)
     min10.7z.002
        min10.7z.003
          win10.7z.004

→ □ win10.7z.005

→ □ win10.7z.006

        min10.7z.007
        min10.7z.008

→ □ win10.7z.009

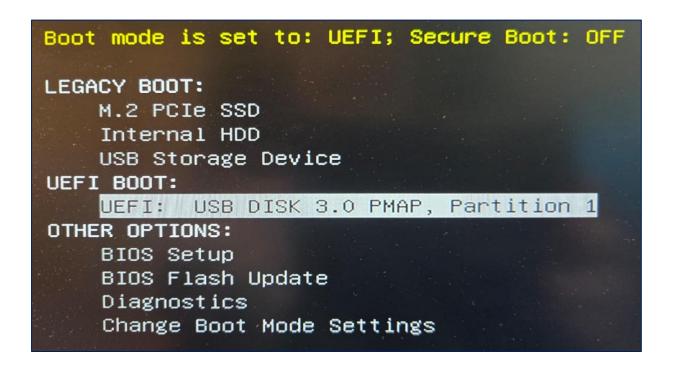
     ⊢  win10.7z.010
     ⊢  win10.7z.011
     └  win10.7z.012
```

```
autoinstall:
                version: 1
                                                                                    Four (4) boot-strap ISO configuration files:
                identity: IR
                 ·hostname: ·ubuntu
                                                                                    Goals: Install the OS then run a primary post-install script
                 # password: ubuntu (SHA-512 crypt)
                                                                                    (that runs in chroot env) & reboots.
                 # · To · generate · a · new · SHA-512 · password · hash · for · this · field:
                   ·1. Boot any Linux system (including Ubuntu Live USB)
                   · 2. · Run·this·command·in·a·terminal:
                       ·mkpasswd·-m·sha-512LF
                      or, if 'mkpasswd' isn't installed:
                       --python3--c-"import-crypt;-print(crypt.crypt(input('Password:-'),-crypt.mksalt(crypt.METHOD_SHA512)))" 🌃
                   3. Copy the resulting string (it starts with $6$...) into the 'password:' line below.
                 password: "$6$rounds=4096$ubuntu$U9PnjptXD0pah3aHRjwM6e6r1kdDPmsrQoDyETvmE9ztvjDtdVjNIEF5hSrGD4D2Jv0Z/J0FGbt0a2h4f4u4c1"
                timezone: America/Chicago
               keyboard:
                 h: 196
                 install-server: false
                storage: IR
                 ·layout:
                  ·name: direct
                 swap: II
                  ·size: 0 · ·
                               * prevent curtin swap bug; we create swap in postinstall
                 overwrite: true
               ·packages: [] ·
                           ····· # offline: do not apt install anything during install
                 disable_root: false
                late-commands:
                · # · 1) · Copy· + · chmod·inside· the· target · (never· fai
                                                        cp -f /cdrom/media/postinstall.sh /root/postinstall.sh && chmod +x /root/postinstall.sh
                 - curtin in-target -- target=/target -- bash --
                     Run Phase 1 work INSIDE target, but never fail curtin (log rc)
                 - curtin in-target -- target -- target -- bash -c 'set +e; /root/postinstall.sh > /var/log/postinstall.log 2>61; echo "[INFO] postinstall.sh (in-target) rc=$?" >> /var/log/postinstall.log; exit 0'
                 . # . 3) . Schedule - reboot - from - the - LIVE - environment - (outside - chroot)
                  # 4) Failsafe: ensure GDM autologin even if postinstall.sh didn't run
                  --curtin in-target --target --target -- bash -c "mkdir -p /etc/gdm3 && printf [daemon] \nAutomaticLoginEnable=true \nAutomaticLogin=ubuntu \n' > /etc/gdm3/custom.conf || true "ma
     set default=0
                                                               menuentry "Kiosk Ubuntu AutoInstall" {
    set timeout=10
                                                                   set gfxpayload=keep
     set timeout style=menu
                                                                   linux ·/casper/vmlinuz ·autoinstall ·ds=nocloud;s-/cdrom/autoinstall ·quiet ·text ·--
                                                                  linux /casper/vmlinuz autoinstall 'ds=nocloud; s=/cdrom/autoinstall quiet splash ---
     loadfont unicode
                                                                   ·initrd·/casper/initrd
     set menu color normal=white/black
                                                               menuentry . "Ubuntu . (safe . graphics) " . {
     set menu color highlight=black/light-gray
                                                                   set gfxpayload=keep
                                                                   ·linux ·/casper/vmlinuz ·nomodeset ·autoinstall ·'ds=nocloud; s=/cdrom/autoinstall · quiet ·splash ·text ·---
    # · Optional: · show · a · warning · banner · on · the · menu
                                                                    initrd /casper/initrd
     insmod gfxterm
     terminal output gfxterm
    echo
    echo.'*** WARNING: AUTOINSTALL WILL ERASE THE INTERNAL DISK ***
    echo 'Use "NO AUTOINSTALL" if you do NOT want to wipe the disk. IM
16 echo 'Pressee on an entry to edit and remove autoinstall if needed.'
   echolle
    sleep.3
    # Autoinstall (destructive)
    # Ensure the USB has /autoinstall/user-data and /autoinstall/meta-data.
    # Keep your helpers in /media/ (postinstall.sh, VMware bundle, 7-Zip tar, win10.7z)
    menuentry "Auto Install Ubuntu with VMware Workstation Pro in Kiosk Mode" (
       echo 'Autoinstall starting... internal disk will be overwritten.'
       ·sleep·3
        ·set ·gfxpayload=keepIF
        ·linux··/casper/vmlinuz·autoinstall·'ds=nocloud;s=/cdrom/autoinstall' quiet·text·---
·initrd · /casper/initrd
    LF
```

Data Flow:

- UEFI will load grub.cfg / loopback.cfg first.
- These files will load the /autoinstaller folder.
- The "meta-data" and "user-data" will be referenced.
- The user-data's "late-commands" will then call
- "postinstall.sh" script.
 - The "user-data" file must be a YAML / UTF-8 / UNIX LF Return format.
- postinstall.sh (chroot env) will set a few configurations, then set postinstall2.sh to run on next reboot.
- postinstall2.sh will install software and desktop links

Boot USB via UEFI



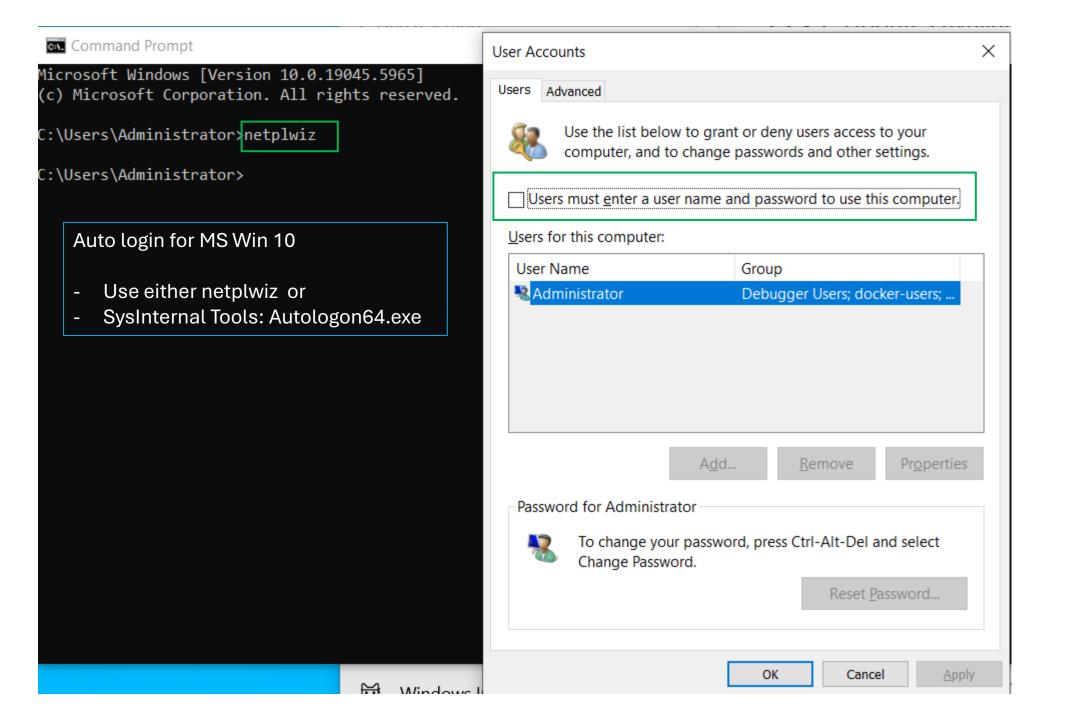
Autoinstall starting… internal disk will be overwritten.

Timing: Dell Precision 7510 Laptop

- 1st boot: 12-15 min from UEFI Boot, to the installation of Ubuntu OS & install of offline deb files & copy of /media folder & auto-reboot.
- 2nd reboot: 15-20 min, install Vmware Wk pro & extract Vmware image, configurations & request for reboot.
- 3rd reboot: 1-3 min, auto load Vmware WK image.

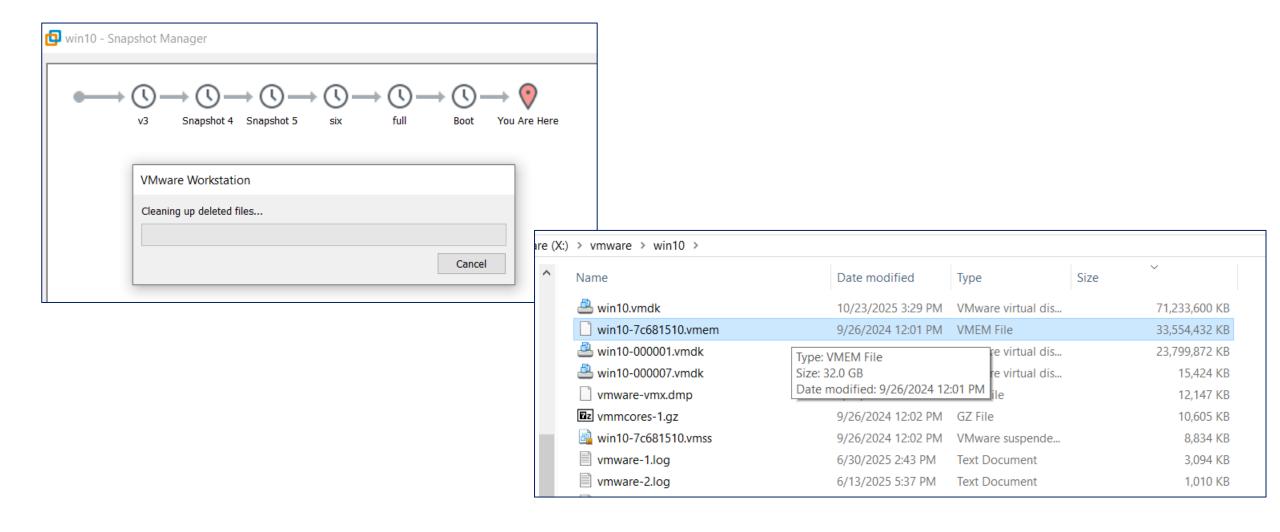


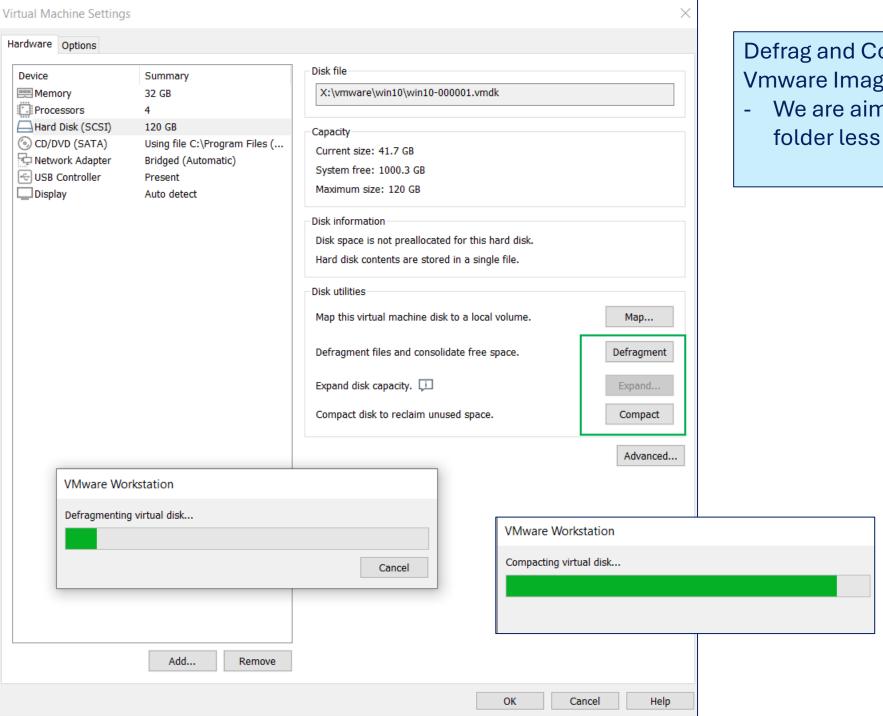
Prepare the MS Windows Vmware Image



To reduce size:

- If there are any VMware SNAPSHOTS, please delete them prior to defrag/compression efforts.
 - Optionally: Clone current version to a new deployment with no snapshots.
- Delete any "old" suspended memory files (.vmem) (back up prior to any deletion)

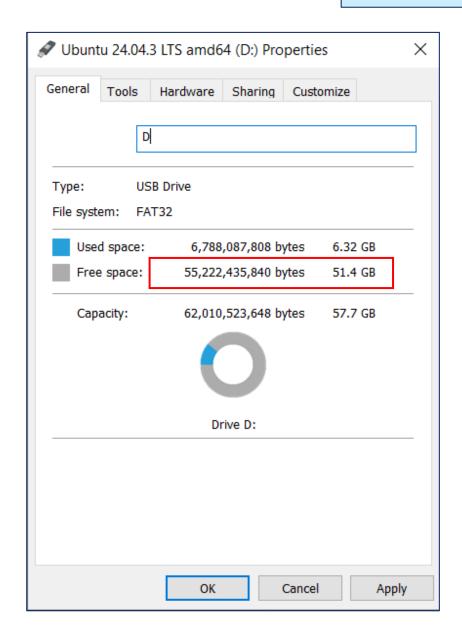


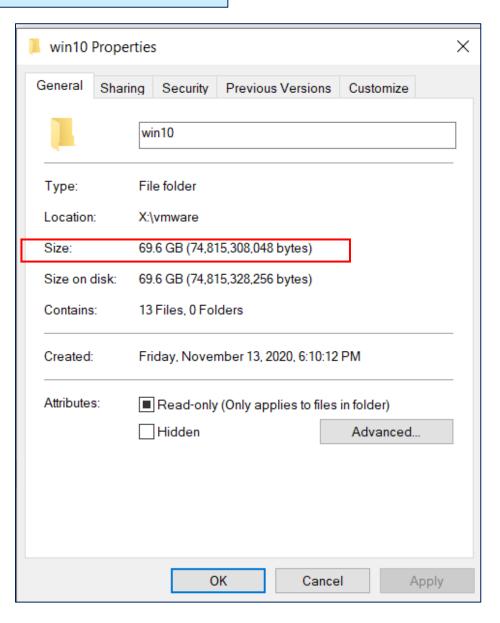


Defrag and Compress the Hard Drive for Vmware Image to fit on USB stick

- We are aiming for a compressed image folder less than 50 GB

Ubuntu UBS 64 GB Boot has 51 GB free space. Current Vmware Image Folder size is greater.

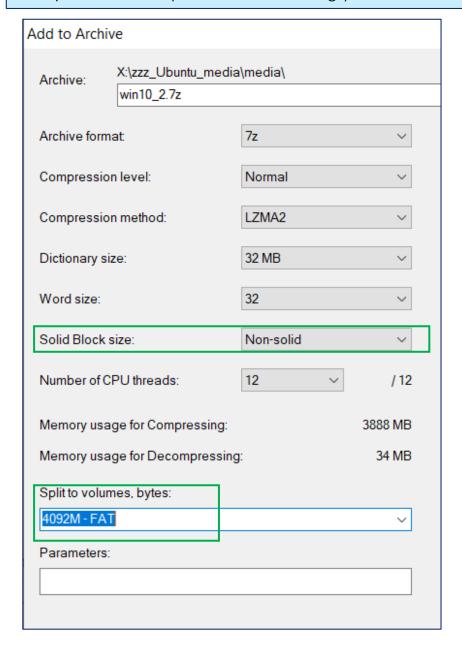


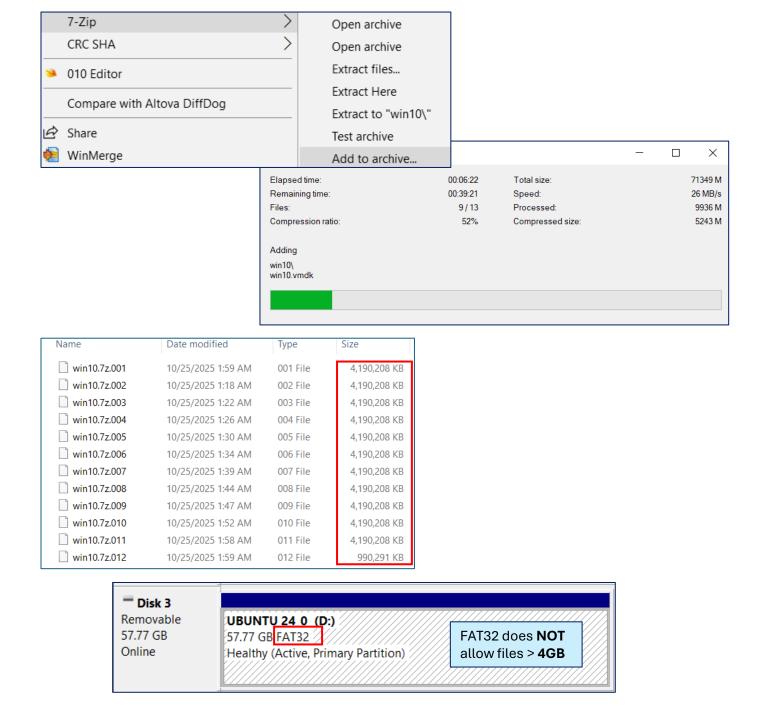


7zip notes

Use 7zip & adjust settings -

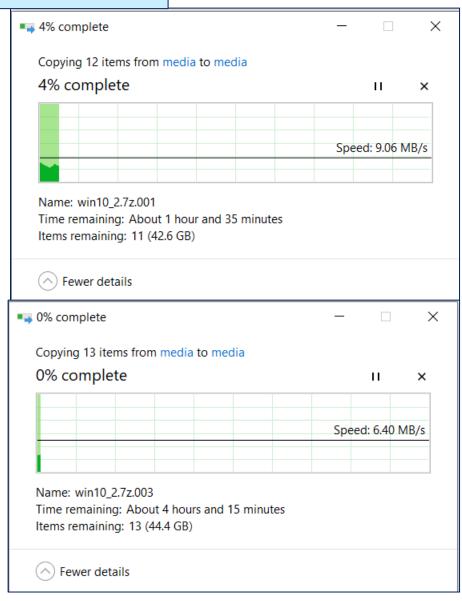
- Select "Non-Solid" for speed on extraction
- Spilt to 4 GB Files (to avoid FAT32 challenge)



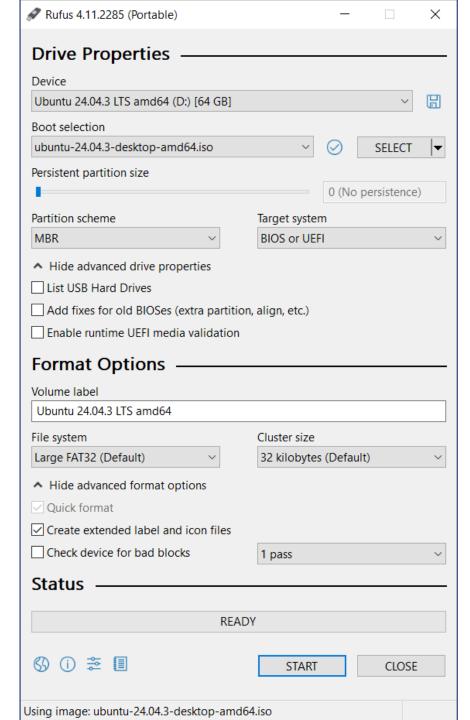


Final media folder state & test of media copy process speed. - Use USB specs 3.1/3.2 for performance for the USB stick.

Name	Date modified	Туре	Size
7z2501-linux-x64.tar.xz	10/23/2025 1:31 PM	XZ File	1,535 KB
gueststore-vmtools-13.0.5-0.24916190.tar.gz	10/23/2025 1:29 PM	GZ File	100,057 KB
☐ VMware-Workstation-Full-25H2-24995812.x86_64.bundle	10/23/2025 1:28 PM	BUNDLE File	302,273 KB
win10_2.7z.001	10/23/2025 5:16 PM	001 File	4,190,208 KB
win10_2.7z.002	10/23/2025 4:48 PM	002 File	4,190,208 KB
win10_2.7z.003	10/23/2025 4:51 PM	003 File	4,190,208 KB
win10_2.7z.004	10/23/2025 4:54 PM	004 File	4,190,208 KB
win10_2.7z.005	10/23/2025 4:57 PM	005 File	4,190,208 KB
win10_2.7z.006	10/23/2025 5:00 PM	006 File	4,190,208 KB
win10_2.7z.007	10/23/2025 5:03 PM	007 File	4,190,208 KB
win10_2.7z.008	10/23/2025 5:07 PM	008 File	4,190,208 KB
win10_2.7z.009	10/23/2025 5:10 PM	009 File	4,190,208 KB
win10_2.7z.010	10/23/2025 5:13 PM	010 File	4,190,208 KB
win10_2.7z.011	10/23/2025 5:16 PM	011 File	4,190,208 KB
win10_2.7z.012	10/23/2025 5:16 PM	012 File	935,489 KB

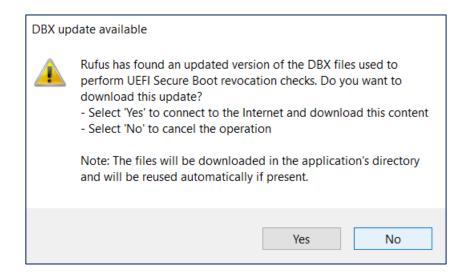


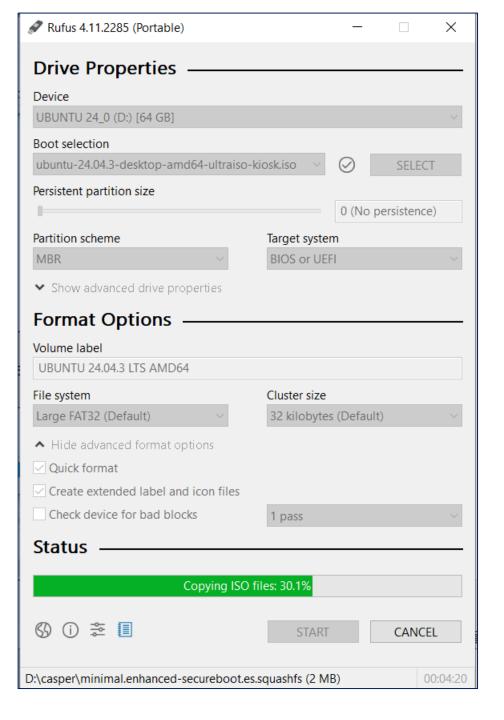
Rufus notes

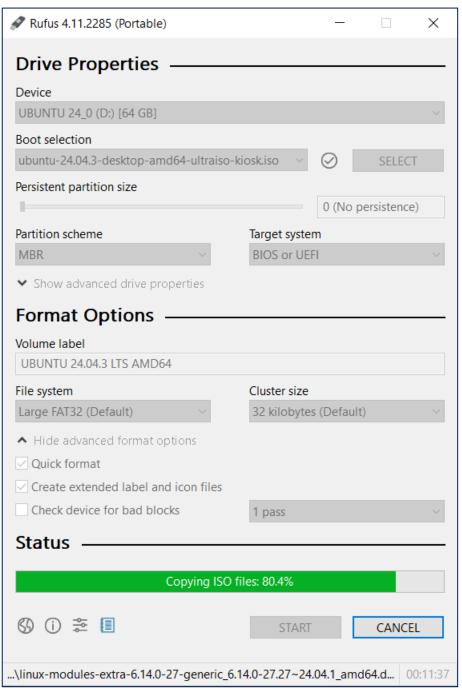


Use Rufus executable to create bootable USB stick.

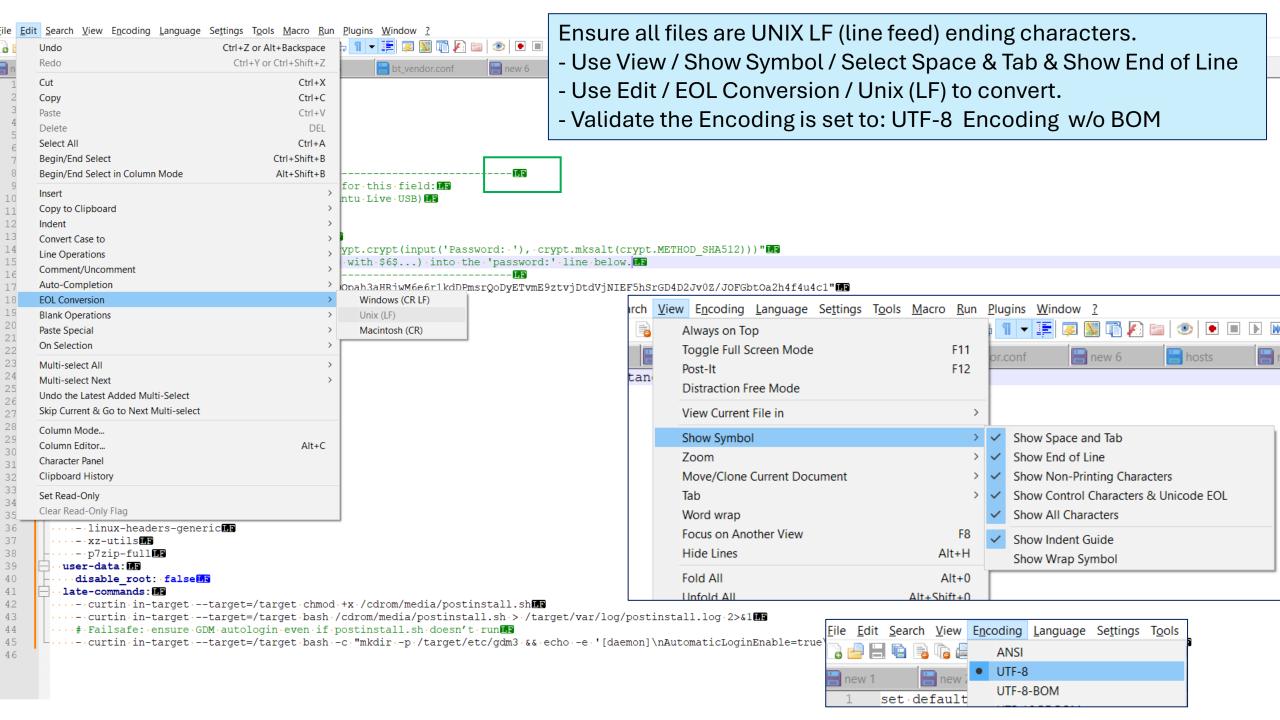
- Rufus allows NTFS file system type, but it is not 100% for all newer BIOS UEFI to boot correctly, so we selected standard FAT32 file system.
- Avoid updating the DBX files for "secure boot" not required for the kiosk architecture.







Format Notes



postinstall.sh & postinstall2.sh

postinstall.sh (runs in a chroot env - so we can only do selected updates)

```
# kiosk postinstall.sh -- Phase 1 (always executed inside curtin chroot)
# - Stages offline media to /opt/usb-seed
# -- Installs any .deb payloads (best-effort)
# --- Creates - swapfile ...
# -- Enables GDM autologin + disables lock screen
# -- Registers Phase 2 systemd oneshot
# -- Always exits 0 so Subiquity never fails (reboot handled by user-data)
BUILD_DATE=2025-10-29
# relaxed error handling inside curtin chroot
set +e +o pipefail
umask 022
 trap - ERR # disable ERR trap completely
LOG=/var/log/kiosk postinstall phase1.log
 exec > > (tee -a - "$LOG") -2>&1
 ts() { date + "%F %T"; }
msg() - { printf '[%s] %s\n' "$(_ts)" "$*"; }
warn() -{ -printf - '[%s] - [WARN] - %s\n' - "$(_ts) " - "$*"; -} []
msg "==== kiosk postinstall.sh start (v$(VERSION) -$(BUILD_DATE)) -===="
# basic config
USB_MEDIA=
SEED DST=
DEB DIR=
USER NAME=
SWAP GB=5
for v in USB MEDIA SEED DST DEB DIR USER NAME SWAP GB; do
done
# stage offline media LF
msg-"Staging offline media from $USB_MEDIA → $SEED_DST"
install -d -m 0755 "$SEED DST"
rsync -avh --delete --info=NAME, STATS "$USB MEDIA/" "$SEED DST/" -2>61
if [[.$? -ne -0 -]]; then[]
 warn "rsync failed, trying cp -- a fallback"
  -cp -a - "$USB_MEDIA/. " - "$SEED_DST/" - | | -warn - "copy -fallback -failed"
files
ls -- la - "$SEED_DST" - | | trueLF
# install offline .debs (best effort)
if compgen -G "$ (DEB DIR) /" '* . deb' >/dev/null 2>&1; then 15
  -msq-"Installing .debs-from .$DEB DIR"
  apt-get update | | warn "apt-get update failed (expected offline)"
```

```
apt-get·update·||·warn·"apt-get·update·failed·(expected·offline)"
  ·dpkg·-i·"${DEB DIR}"/*.deb·||·warn·"dpkg·-i·non-zero"
  apt-get --f · install ·-y · | | · warn · "apt-get ·-f · install · non-zero"
 ·msg·"No·.deb·payloads·under·$DEB DIR"
file
 # · create · swapfile EF
msg."Creating.${SWAP GB}.GB.swapfile"
SWAPFILE=/swapfile
if ·! ·grep ·-q · 'swapfile' ·/etc/fstab ·2>/dev/null; ·then
 ·fallocate ·-1 · "$ (SWAP GB) G" · "$SWAPFILE" · 2>/dev/null · | | · \ | | - |
  dd if=/dev/zero of="$SWAPFILE" bs=1M count=$((SWAP GB*1024)) status=progress
  chmod · 600 · "$SWAPFILE"
 ·mkswap · "$SWAPFILE" · && · swapon · "$SWAPFILE"
  echo '/swapfile none swap sw 0.0' >> /etc/fstab
 ·msg·"Swapfile·already·present"
files
swapon --- show - | | - trueLF
# · GDM · autologin LF
msg."Configuring.GDM.autologin.for.${USER NAME}"
install -- d -- m · 0755 · /etc/gdm3 LF
cat >/etc/gdm3/custom.conf <
# · disable · lock · screen · / · idle
msg. "Writing.dconf.defaults"
install -- d -- m · 0755 · /etc/dconf/db/local d
cat >/etc/dconf/db/local.d/00-kiosk <
   rg/gnome/desktop/sessi
  lle-delay=uint32 0
   rg/gnome/settings-daemon/plugins/p
   ra/anome/desktop/lockdownl
dconf update | | warn dconf update non-zero
# register phase 2 systemd oneshot
msg."Registering.kiosk-postinstall2.service"
UNIT=/etc/systemd/system/kiosk-postinstall2.service
```

```
register phase 2 systemd oneshot
UNIT=/etc/systemd/system/kiosk-postinstall2.service
WRAP=/usr/local/sbin/kiosk-phase2.sh
install -d -m0755 /usr/local/sbin /var/lib/kiosk
cat > "SWRAP" < 'WRAP' #
LOG=/var/log/kiosk_postinstall_phase2.log
echo "$ (date +%F\ %T) phase2 start"
  -f /opt/usb-seed/postinstall2.sh ] && bash /opt/usb-seed/postinstall2.sh
date > /var/lib/kiosk/postinstall2.done.
systemctl disable -- now kiosk-postinstall2.service || true
    "$ (date +%F\ %T) phase2 done"
chmod · 0755 · "$WRAP"
  scription=Kiosk Phase 2 (VMware + VM extraction + tweaks)
After=network-online.target systemd-udev-settle.service
Wants=network-online.target
 ConditionPathExists=!/var/lib/kiosk/postinstal12.done
 ExecStart=/usr/local/sbin/kiosk-phase2.sh
StandardOutput=journal+console
systemetl --no-reload enable kiosk-postinstall2.service || warn "systemetl enable non-zero"
# completion stamp
mkdir -p /var/lib/kiosk
date -Iseconds >/var/lib/kiosk/postinstall1.done
msq "Phase 1 complete; reboot will be invoked by user-data."
udevadm settle -- timeout=30 - | | true | 1
msg " ---- kiosk postinstall.sh end (exit 0) -----
```

postinstall2.sh (runs on 1st reboot. Install software as 'root' and as 'ubuntu' user

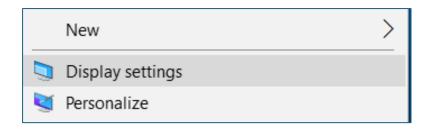
```
#!/usr/bin/env.bash
 # · postinstall2.sh · - · Kiosk · Post-Install · (Phase · 2)
# · Version: · 2.2.2025-10-29
# · Order · of · operations · (after · desktop · loads) : III
# ... · 1) · Close · Welcome/Tour · windows
#...2) .Open .terminal: .tail .-f .kiosk_postinstall_phase2.log
#...3) .Open.terminal:.top.for.VMware.processes
# · · · 4) · Update · sudoers · NOPASSWD LF
#...5) .Install.VMware.Workstation.Pro.(best-effort)
#...6) ·Extract ·VM · from · 7z
#...7) ·Flatten·nested·win10/
# · · · 8) · Locate · . vmx
# · · · 9) · Patch · . vmx IF
# . . 10) . Create . autostart . helper . + . desktop . entries
# . . 11) . Trust . desktop . entries . (gio) . in . user . session
# · · 12) · GNOME · lock/idle · settings
# . . 13) . Disable . Phase . 2 . service
# · · 14) · Print · reboot · banner
L<sub>f</sub> .-----
 set -- Eeuo pipefail
# .Logging . / .Tracing
 mkdir -p . "$ (dirname . "$LOG") "IF
 exec -> -> (tee --a - "$LOG") -2>&1
 _ts() - { -date - + "%F - %T"; - }
log() · { · printf · ' [%s] · %s\n' · "$ (_ts) " · "$ *"; · }
PS4='+.$(date."+%F.%T").[${BASH_SOURCE##*/}:${LINENO}].'
# · Auto-enable · DEBUG
#DEBUG=${DEBUG:-1}
 DEBUG=${DEBUG:-0}
 [[."$DEBUG".==.1.]].&&.set.-x.||.true
 trap.'rc=$?;.log."[ERROR].rc=$rc.at.line.$LINENO:.$BASH COMMAND";.exit.$rc'.ERRIB
 hr; ·log · "==== ·Phase · 2 · start · (v2.2) ·==== "
# . Configuration . (override . via . env)
 USER HOME=$ (getent passwd "$USER NAME" | cut -d: -f6 | | true); :: "$ {USER HOME:="/home/$ {USER NAME}"} "IF
 USER_UID=$ (id -u . "$USER NAME")
 VM ROOT=${VM
 VMX PATH DEFAULT=${VMX PATH DEFAUL
 SPLIT DIR=${8
 VM ARCHIVE=${VM ARCHIVE:-"${SPLIT DIR}/win1(
 VMRUN BIN=${VMRUN BIN:-/usr/bin/vm
 VMPLAYER BIN=${VMPLAYER BIN:-/usr/bin/vmplay
 SYS AUTOSTART DIR=${SYS AUTO
 USR_AUTOSTART_DIR="${USER_HOME}/.config/autostart"
 USR APPS DIR="${USER HOME}/.local/share/applications" IF
 USR DESKTOP DIR="${USER HOME}/Desktop"IF
```

This file will likely be changed the most to fit your needs and customizations.

Example:

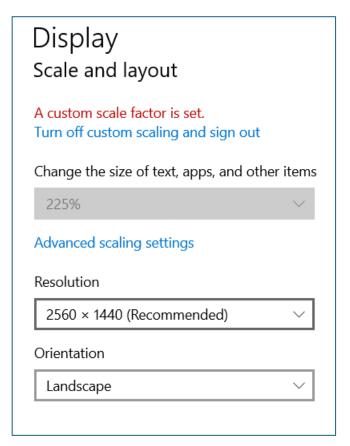
Variables have been defined early in the script to allow changes for file names and folders, e.g. 7zip file names for VMware images.

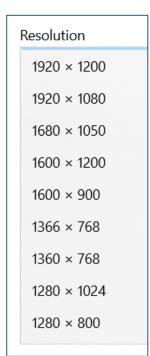
Resize MS Windows Screen



Resize as needed, depending on the monitors being used.

- Suggest 100% or 125% as needed





Monitoring Commands

Phase 1 - Initial Boot - Operating System Install

sudo tail -f /var/log/installer/subiquity-server-debug.log

top-c

sudo tail -f /target/var/log/kiosk_postinstall_phase1.log

Purpose	Log file	Notes		
Main installer log	/var/log/installer/subiquity-debug.log	Shows all actions and Python tracebacks.		
Installation progress	/var/log/installer/subiquity-server-debug.log	Real-time output during partitioning, package install, user creation, etc.		
Autoinstall (cloud-init)	/var/log/cloud-init-output.log	Contains autoinstall status and errors after first boot.		
Kernel messages	/var/log/kern.log Or dmesg -w	Hardware or driver events.		
To follow during install (in a shell, like Ctrl+Alt+F2):				
bash				
tail -f /var/log/inst	taller/subiquity-debug.log			

Phase 2 - 1st Reboot - Software Install

tail -f /var/log/kiosk_postinstall_phase2.log

top-c

cat /var/log/kiosk_postinstall_phase1.log