ENGLISH · IKFACE EDGE / SERVER

Prepare Ubuntu 24.04 LTS for IKFace Edge or Server

A practical guide for a dedicated physical or virtual machine

Download the official Ubuntu Server image, install the operating system, verify the network and hand over a machine ready for the official IKFace installer. The base operating system is the same for Edge and Server; the final configuration is defined for each project.

Mandatory: dedicate the machine exclusively to IKFace. Do not install or run unrelated applications, databases, web servers, containers or services on it.

01 Before you begin

- Prepare a clean Ubuntu Server 24.04 LTS installation (64-bit amd64), an administrator account with sudo rights, working network and time synchronization, and outbound HTTPS access to the authorized INFOKRAUSE repository.
- For a physical server, have an empty USB drive of at least 8 GB. For a virtual machine, mount the ISO in the virtual CD/DVD drive.
- Size CPU and RAM for the camera count and AI workloads in the project sizing guide. Use a compatible Intel processor, 8th generation or newer, for IKFace Edge.
- Provide at least 64 GB on SSD or NVMe for the operating system. Plan additional capacity for events, evidence, databases and backups according to retention needs.
- Record the IP address, subnet, gateway, DNS servers, camera/VMS VLANs and secure administrator access before installation.
- Do not preinstall Docker, MySQL, Nginx or other platform components; the official IKFace installer manages its own dependencies.

02 Download Ubuntu Server

- Get the latest approved Ubuntu Server 24.04 LTS amd64 ISO from https://ubuntu.com/download/server. The release archive is https://releases.ubuntu.com/24.04/.
- Choose Ubuntu Server, not Ubuntu Desktop. Confirm that the ISO is for amd64/x86-64 and the 24.04 LTS family.
- Optionally compare the image SHA-256 checksum with the value published by Ubuntu. On Windows use Get-FileHash; on Linux use sha256sum.

03 Create installation media: physical server

- Back up the USB drive: creating installation media erases it. Download Rufus from https://rufus.ie/ and select the Ubuntu Server ISO and the correct USB device.
- Use the recommended defaults. Prefer UEFI/GPT for modern hardware; use another boot mode only when required by the server firmware. If Rufus asks, use ISO image mode.
- Insert the USB drive into the server, open its boot menu (often Esc, F2, F10 or F12), and select the UEFI USB entry. Confirm the target installation disk before continuing.

04 Prepare a virtual machine

- Create a Linux / Ubuntu 64-bit VM with UEFI where supported. Assign CPU and RAM according to the project sizing guide.
- Provide at least 64 GB on SSD/NVMe-backed storage; add a separate data disk if the project design calls for it. Mount the Ubuntu Server amd64 ISO as a virtual CD/DVD.
- Connect the VM to a bridge or virtual switch and the correct VLANs. Verify reachability to cameras/VMS, DNS, NTP, the Internet and authorized HTTPS services. Internet access alone does not prove camera access.
- Configure GPU passthrough only if required by the project design. A snapshot before the IKFace installation may help with recovery.

05 Install Ubuntu Server

- Start the standard Ubuntu Server installer. Select language and keyboard; accept an installer update if available. Set the required network, proxy and package mirror.
- Choose the intended disk and a layout with at least 64 GB. Warning: selecting the entire disk erases existing data.
- Create a hostname without spaces or accents and a local administrator profile with a strong password. Enable OpenSSH only if remote administration is needed and authorized.
- Skip optional snaps and unrelated services. Complete the installation, reboot, and remove the USB drive or detach the virtual ISO.

06 Verify the installation

- Run the checks below. Expect Ubuntu 24.04 LTS, x86_64, a valid IP address, synchronized time and at least 64 GB of system storage.
- Confirm stable IP and DNS resolution, outbound TCP 443 to the authorized services, routing to cameras/VMS, NTP and the required time zone. Permit SSH only from approved administration networks.
- Update the operating system: sudo apt update && sudo apt upgrade -y ; then sudo reboot. Install curl if needed with sudo apt install -y curl (or use wget).
- Set the project time zone if needed with sudo timedatectl set-timezone AREA/CITY.

```
cat /etc/os-release

uname -m

hostname -I

timedatectl

lsblk -o NAME,SIZE,TYPE,MOUNTPOINTS

df -h /
```

07 Run the official IKFace installer

- Open https://www.ikface.net/download, register or sign in, request the trial and obtain the installation commands shown for your approved account and enrollment.
- Sign in to the prepared machine as its administrator. Copy the complete curl or wget command from the official portal, paste it into the terminal, review it and execute it. Enter the sudo password when prompted.
- The official installer downloads from the authorized INFOKRAUSE repository and needs administrator privileges. Verify the URL and network before execution. Do not close the SSH session, shut down the machine or interrupt connectivity while it runs.
- INFOKRAUSE provides the project, license and Edge/Server configuration details. The Ubuntu preparation steps are shared by both deployment types.

08 Final checklist and handover

- Dedicated physical or virtual machine; approved Intel CPU and sized RAM; Ubuntu Server 24.04 LTS amd64; at least 64 GB SSD/NVMe; administrator with sudo; hostname and stable IP; working DNS, gateway and NTP; HTTPS access to authorized services; route to cameras/VMS; official portal access and approved installer commands.
- Record for handover: hostname, IP/subnet, physical or virtual platform, Ubuntu version, CPU, RAM, disks, time zone, preparation date and technician.

09 Common problems and references

- USB will not boot: check firmware boot mode, UEFI entry and USB image. VM will not boot: verify the ISO is mounted and first in the boot order.
- Could not resolve host: check DNS, gateway and proxy; try getent hosts repo.infokrause.com. Connection timed out: check outbound HTTPS/TCP 443 and firewall rules.
- curl or wget missing: install the client from Ubuntu repositories. No camera access: check VLAN, routes, firewall and VMS permissions independently of Internet access.
- References: https://ubuntu.com/download/server ; https://ubuntu.com/server/docs/installation ; https://ubuntu.com/tutorials/create-a-usb-stick-on-windows ; https://www.ikface.net/download. Also consult the IKFace sizing guide for project-specific capacity.