

★ WEB SERVER

How to work with web server

This documentation outlines the key aspects of managing web applications hosted on the Scibiome infrastructure. It includes information on virtual machine (VM) control, application deployment, and available support tools.

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1. Infrastructure Management: Virtual Machines via Proxmox

We provide each user with a **dedicated virtual machine (VM)** using **Proxmox**, a robust virtualization management platform.

What You Get:

A dedicated VM instance

Access to Proxmox UI: Proxmox Interface

Basic controls: Start, stop, restart, and adjust some resources

🔧 Editable Options in Proxmox:

Username & password (via CloudInit)

VM Name

Memory and processor (notify IT if changes are made)

Snapshots: **Enabled by default**

🚫 Do Not Modify:

Disk size (request IT for resizing)

Other CloudInit parameters

2. Application & Software Management

🧠 Skills Required:

Basic understanding of **Nginx reverse proxy**

Familiarity with folder-level app deployment

:undefined: Deployment Guidelines:

Upload your app files to the VM

Configure reverse proxy rules in Nginx

Support for modern frameworks like Laravel, Next.js, etc.

Test apps locally using subdirectory paths (e.g., <http://localhost/your-app-folder/>)

:undefined: Folder Structure Example:

To host multiple apps under one subdomain:

bash

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example1.scibiome.de/app1/ example1.scibiome.de/app2/

Each app must be configured to work within its base path using environment variables or config files.

3. CloudPanel (Web Application Panel)

For managing applications, Nginx virtual hosts, and SSL:

Access: [CloudPanel](#)

Suggested for experienced users or those needing regular updates

4. Domain & Networking Options

 Default:

Subdomain provided: example1.scibiome.de

Managed internally via reverse proxy

 Optional:

Custom domain support

Point your domain to: 134.169.129.160

Public IP (on request)

Request **at least 10 days in advance**

Full server management responsibility transfers to the user

Domain can still be managed by us

5. Database Access

 Available DB Services:

MySQL / MariaDB: Full access

PostgreSQL: Limited access

 Provided Credentials:

DB Name

Username

Password

Host details

6. Role Clarification

 Your Responsibility:

Application configuration and deployment

Nginx config for reverse proxy (link: [Nginx Basics](#))

Ensuring local and production path consistency

:undefined: Our Role (IT Team):

Provide VM access and Proxmox interface

Set up subdomains and SSL

Assist with infrastructure issues only—not app-level debugging

7. Advanced Options (Optional)

Option	Description
Dedicated IP	Full control, own control panel (e.g., CloudPanel)
Own Domain	Fully supported; route your DNS to our IP
Snapshots	Enabled by default
Cockpit Panel	Used internally for container-based services

8. FAQs

Q1: Can I host multiple apps under one subdomain?

Yes, by using folder-based Nginx config.

Q2: Can I use my own domain?

Yes, update your DNS to point to our IP: 134.169.129.160

Q3: Can I get a public IP?

Yes, request it 10 days in advance.

Q4: Can I set up my own control panel?

Yes, especially recommended with a public IP.

Q5: What resources are available?

Flexible depending on your app needs. GPU not available.

