Service Inventory

Overview

Project Oyster runs a collection of self-hosted services on Proxmox VE. These services provide infrastructure management, network visibility, documentation, automation, and telephony.

The majority of services run as Docker containers on the `infra01` Ubuntu Server VM. FreePBX runs in a separate virtual machine.

Service Directory

Service	Hostname / URL	Address / Port	Purpose
Proxmox VE	`pve01.oyster.lab`	`192.168.90.2:8006`	Virtual machine and host management
Portainer	`portainer.oyster.lab`	`192.168.90.4:9443` backend	Docker management
NetBox	`netbox.oyster.lab`	`192.168.90.4:8080` backend	IPAM, infrastructure inventory, and documentation
Uptime Kuma	`kuma.oyster.lab`	`192.168.90.4:3001` backend	Service availability monitoring
Homarr	`homarr.oyster.lab`	`192.168.90.4:7575` backend	Central service dashboard
IT-Tools	`ittools.oyster.lab`	`192.168.90.4:8081` backend	Network and development utilities
NetAlertX	`netalert.oyster.lab`	`192.168.90.4:20211` backend	Network device discovery and visibility
Technitium DNS	`infra01.oyster.lab`	`192.168.90.4:53`	Internal DNS and DNS forwarding
Nginx Proxy Manager	`infra01.oyster.lab`	`192.168.90.4:80/81/443`	Reverse proxy and web access management
BookStack	`docs.oyster.lab`	`192.168.90.4:6875` backend	Technical documentation and runbooks
FreePBX	`freepbx.oyster.lab`	`192.168.90.7`	Asterisk-based PBX and SIP lab

Service	Hostname / URL	Address / Port	Purpose
NetBox Automation	`netautoserver`	Verify current IP	Ansible and Python automation

Note: Backend ports are included for administration and troubleshooting. Normal browser access should use the configured DNS name and reverse proxy where available. NetAlertX's reverse-proxy configuration has not yet been confirmed working.

Service Hosting

- **Proxmox VE:** Physical virtualization host.
- **infra01:** Ubuntu Server VM hosting Docker-based services.
- **FreePBX:** Separate VM for telephony experiments.
- **netautoserver:** Dedicated automation environment for Python, Ansible, and NetBox integration.
- **ca01:** Planned internal certificate authority VM.

Operational Principles

- Prefer internal DNS names instead of memorizing IP addresses and ports.
- Use NetBox as the source of truth for documented infrastructure.
- Monitor important services with Uptime Kuma.
- Back up virtual machines and important service configuration.
- Keep credentials, API tokens, and private keys out of documentation.
- Verify actual service status before making infrastructure changes.

Maintenance

Update this page whenever a service is added, removed, moved, or changes its address or access method.

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