

NORYVEXA BIOLABS

Research Infrastructure Overview — 2026

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1. Executive Overview

Noryvexa BioLabs operates a fictional research environment designed to support interdisciplinary work in computational biology, molecular diagnostics and scientific data management.

The organization combines traditional IT systems with cloud-based applications and reproducible scientific workflows.

2. Technology Environment

The simulated technology environment includes:

- **Operating systems:** Ubuntu Server and Windows Server.
- **Web infrastructure:** Nginx, HTTPS and TLS.
- **Application development:** Python, FastAPI and .NET.
- **Database systems:** PostgreSQL and SQL-based research catalogues.
- **Containers:** Docker and Docker Compose.
- **Cloud services:** Microsoft Azure and Oracle Cloud Infrastructure.
- **Infrastructure automation:** Terraform.
- **Source control and delivery:** GitHub and GitHub Actions.
- **Network analysis:** Wireshark and TShark.

3. Organizational Responsibilities

Lucas Neirin coordinates bioinformatics engineering and scientific data workflows.

Adam Verne oversees the simulated IT systems administration function.

Adrien Valmont coordinates information security, access control, monitoring and risk management.

4. Research Programs

NX-RD-041 — Atlas Bioinformatics: Computational research pipelines and molecular datasets.

NX-RD-052 — Helix Diagnostics: Analytical methods supporting molecular diagnostic research.

NX-RD-063 — CellTrace Data: Research data governance and reproducibility.

5. Security and Operational Principles

The organization uses role-based access control, encrypted communication, infrastructure documentation, patch management, audit logging and backup procedures.

Research databases and administrative interfaces are not intended for unrestricted Internet access.

6. Document Control

Prepared by: Lucas Neirin

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Reference: NX-DOC-2026-014

Related program: NX-RD-041

This document is entirely fictional and was created for an educational cybersecurity and OSINT laboratory. It contains no real corporate secrets, credentials or operational infrastructure information.