

# NICHOLAS HARRAS

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## EXPERIENCE

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### Institute for Genomics and Evolutionary Medicine – Temple University

Philadelphia, PA

*Technical Support Specialist*

*September 2020 - present*

- Administering all IT equipment across the lab, including 100 Windows workstations, six Ubuntu workstations, three Apache web servers, three NAS servers, and two HPC clusters
- Assisting 30 doctorate and post-doctorate and 40 undergraduate researchers with the use of our technology, including writing **SLURM** sbatch scripts, deploying **Ubuntu** workstations
- Responsible for the configuration and continuous uptime of a **SLURM** High Performance Computing cluster used for academic research
- Authoring documentation and guidelines for the administration of all IT devices in the lab
- Coordinating purchases for all IT equipment, ranging from cables to enterprise servers
- Leveraging my information security experience toward monthly internal penetration tests of our lab's network
- Investigating, resolving, and mitigating any security breaches of the lab's network, including the installation of cryptojacking malware, and generic brute-force scans against our infrastructure

### National Oceanic and Atmospheric Administration

Princeton, NJ

*Computer Operator*

*June 2019 - February 2020*

- Utilized **Slurm** and other command line tools to maintain various Federal **OpenSUSE Linux** HPC systems that scientists at NOAA's Geophysical Fluid Dynamics Lab rely on for their weather modeling
- Responded to or handed off approximately 10 tickets a day within **OTRS**, in a workplace of about 200 users.
- Answered phones and assisted climatologists and engineers with technical issues, often with **SSH** tunneling, **X2Go** connections, **Slurm** errors, and compiler issues
- Developed **Python** and **tcsh** scripts to automate various maintenance tasks

## PROJECTS

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### TimeTree 4 Server Deployment

Oversaw deployment, auditing, and maintenance for every step of the process for the migration of the evolutionary knowledge-base website [timetree.org](https://timetree.org) from a **Xen** High Availability cluster, to redundant, dedicated servers.

- Facilitated the exchange of information between the site's development team and hardware vendors to acquire the machines best suited to host the next iteration of the website
- Physically deployed all of the equipment, and configured all of the systems a secure, public-facing web server
- Collaborated closely with the security team to accurately model the attack surface of the server and develop a security policy to adhere to as I work to continuously maintain it

## SKILLS

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- **Operating Systems:** Windows 10, Ubuntu 16+, RHEL/CentOS 7+, OpenSUSE, Kali Linux 18+, ParrotOS Security 4.11, VirtualBox 6.1, Xen
- **Programming and Scripting:** Python 2.7/3, C, Java, Go, bash, PowerShell
- **Databases and Web Dev:** Apache 2.4, PHP 7/8, CodeIgniter, MySQL, PostgreSQL
- **Security Tools:** Nmap 7.8, Wireshark 3+, tcpdump, curl, wget, Metasploit Framework 6, Burp Suite Community Edition, John the Ripper 1.9+, hashcat 6+, DirBuster, Active Directory, LDAP
- **Clearance:** Public Trust
- **Certifications:** CompTIA Security+

## ORGANIZATIONS AND INTERESTS

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- **Organizations:** 2600, Hive76 Makerspace, The Open Organization of Lockpickers, West Philadelphia Tool Library
- **Interests:** HackTheBox.eu, CTFtime.org, VulnHub.com, OverTheWire.org, Pwnagotchi, LeanPub books

## EDUCATION

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### Rutgers University

*B.S. in Computer Science*

New Brunswick, NJ

*September 2014 - August 2018*