

# Systems and Network Administrator

(afjob-sna201007)

## Vacancy

We are looking to recruit an experienced Unix Systems and Network Administrator who is capable of research, design, development, testing, and documentation, whilst still being able to manage our LAN and WAN resources to maximum efficiency.

## About

AfriNIC is the Registry for Internet Number Resources for Africa, and the Indian Ocean region. AfriNIC is a non-governmental, and not for profit organisation registered in Mauritius to provide Internet number resource management and some coordination services to ISP in Africa and Indian Ocean.

## Applications

If you are considering applying for this position, please send a letter of motivation accompanied by your CV, both in English to [jobs@afriNIC.net](mailto:jobs@afriNIC.net). To facilitate a timely handling of your application, please quote the relevant Vacancy Reference Number and your name in the subject line of your email or letter of application.

**Application Deadline: Friday August 6th 2010**

Start Date: As soon as possible

Interviews will be held at the AfriNIC office in Ebène.



## Primary Duties & Responsibilities

- Install or supervise the installation, upgrading and maintenance of hardware, peripherals, and software to support AfriNIC's mission.
- Work actively to maintain AfriNIC's services to 99.999% uptime.
- Monitor systems' performance, identifying problems and making corrections or recommendations to resolve problems and/or improve performance.
- Perform preventive maintenance as and when necessary.
- Maintain software to an up to date version to handle security holes and bugs as announced by vendors or users.
- Effective management of AfriNIC mailing lists.
- Manage user access to various internal and external systems.
- Establish, manage, and supervise backup storage processes, including full simulations to continually test and improve these.
- Establish, document and maintain best practice system and network security practices and policies. Monitor system security and provide reports on all security violations.
- Train and provide ongoing support to the rest of the Organisation in the proper operational procedures regarding backups, system security, and other related computing operations.
- Evaluate and make recommendations on new hardware and software products, based on assessment of system requirements. Perform preliminary tests and product evaluation to support recommendations.
- Recommend, design, construct, test, and implement application and systems programs as needed.
- Work to extend AfriNIC system availability through the design, and implementation of redundant and resilient services.
- Establish project timelines with management for project milestones and completion dates.
- Periodically perform training as part of the AfriNIC training program.
- Perform troubleshooting for users to solve day-to-day operating problems.

## Skills Required

- 4-year university degree preferably in an information systems or computer science related discipline OR equivalent combination of education and experience.
- Proven track record of at least 4 years of job-related experience supporting both Linux and/or FreeBSD as a system administrator.
- Excellent knowledge of Internet Protocol (IP), network security issues and open source security tools.
- In-depth familiarity with common Internet protocols such as WHOIS, DNS, SMTP(S), POP(S), HTTP(S).
- Experience managing MySQL databases.
- Ability to understand complex instructions, and work independently, quickly and accurately.
- Ability to learn and fill knowledge gaps quickly.
- Knowledge of programming; able to write scripts to automate processes.
- Ability to travel to various locations to work on AfriNIC infrastructure and attend industry related conferences.
- Good interpersonal skills. Strong verbal and written skills.

## Skills Preferred

- Familiarity and/or experience with the RIR system, or previous relevant experience within an ISP environment.
- Experience with multiple site DNS Anycast.
- Experience with DNSSEC and PKI environments.
- Production experience with Open Source virtualisation tools.
- Experience using BGP and/or OSPF.

## Additional Duties

- Production experience with Open Source virtualisation tools.
- Experience using BGP and/or OSPF.