# rhyzome networks

| Job Title | Linux Systems Administrator |
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| Department | IT |
| Reports to | Manager of IT |

**Job Purpose**

This role is responsible for interacting with internal and external clients and vendors of Festival Hydro and Rhyzome Networks to ensure servers and end point devices are operational, optimized, and secure. The key focus of this role is overseeing operational infrastructure with a specific focus on Linux OS, although as a member of a small team there are requirements to support many other points of infrastructure and project support. Day to say responsibilities include the maintenance, configuration, and reliable operation of workstations, servers, virtualization, storage, and databases on a Tier 2/ Tier 3 basis.

Responsibilities

The below are the essential functions and responsibilities of this position:

➢ Install, maintain, monitor, and support physical and virtual Linux servers and related software

➢ Installation of software, upgrades, security patches, and system drivers of servers and third-party software packages adhering to our internal patch policy and performing quality assurance of all updates or changes before they are approved for production.

➢ Assume ownership and respond to incidents, problems, and changes; perform root cause analysis and implement preventative measures to maintain service performance for all users, participating in incident, problem and change management processes as appropriate.

➢ Provide expert knowledge of server-based computing, virtual environments, and cloud-based infrastructure and serve as a subject matter expert to peers and management.

➢ Evaluate new and evolving technologies, proposing solutions, and providing recommendations for maintaining, improving, and deploying infrastructure (servers, SAN, virtualization, cloud) in a high-up time environment.

- Conduct complex technical evaluations, analyze complex-business needs, and recommend proposed physical and logical designs for new and existing infrastructure based on business requirements.

- Produce infrastructure-related scripts to automate manual tasks plus streamline operational activities and make recommendations for solutions where internal automation is not cost-effective.

- Maintain and evolve our backup and disaster recovery strategy.

- Develop, implement, maintain, and oversee the enforcement of policies, processes, and associated plans for the system operation and security based on best practice and NIST standards.

- Work with other IT personnel, vendors, and users to plan, coordinate, and implement system maintenance and security measures;

- Perform other IT tasks as assigned.

**Required Skills Technical/Professional Abilities**

- Post-secondary education in the field of IT (Computer programming, Computers systems Technician, Computer Science, IT Infrastructure).
- 2-3 years demonstrable experience in the administration of Linux OS (Ubuntu, Debian, CentOS), Unix/Linux File Systems and volume management, and the Ceph storage platform.
- 2 -3 years experience working with virtualization platforms (ProxMox, KVM, QEMU, Hyper-V) as well as a good understanding of industry trends including I/O virtualization and clustered storage.
- Experience with Web servers (Apache, Tomcat, HTTP, SSL) is required.
- Experience with cloud platforms such as AWS, Azure,  and Google Cloud is an asset.
- Proven experience with Linux monitoring systems (checkMK, LibreNMS, GrayLog)
- Experience with enterprise-level network/system security, like pfSense.
- Strong experience with scripting, automation, and orchestration technologies and languages such as Bash, PowerShell, Python, Ansible, Perl, Python, Chef, Puppet, Github etc.
- Experience with databases considered an asset (SQL, MySQL, Postgres).
- Experience with enterprise-level network/system security, like pfSense.
- The ability to learn new domain specific knowledge quickly and accurately.
- A Project Management, Information Security, or other technical certifications would be viewed favorably (PMP, SANS GIAC, CCNA, RHCSA, LPIC, CompTIA, etc.).

Other:

- ➤ Excellent communication with non-technical peers.
- ➤ Strong interpersonal skills; ability to effectively communicate with team members to derive problems and determine needs;
- ➤ Ability to show versatility and resourcefulness when problem solving;
- ➤ Ability to work independently and effectively as part of a team;
- ➤ Ability to work in a fast paced, demanding, challenging, multi-tasking environment and organize priorities based on deadlines and importance of tasks;
- ➤ Attention to detail, willingness to learn/self teach with good analytical skills;
- ➤ Ability to effectively work within a small group of professionals to achieve shared and personal goals;
- ➤ Sense of creativity when developing solutions to deal with multiple types of issues from team members;
- ➤ Detail oriented, ensuring accuracy of information, and diligence in documentation.

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Interested candidates may apply by emailing their resume and cover letter to **dcampbell@festivalhydro.com** by Feb 8, 2021. Please reference "Systems Administrator" in the subject line.

We thank all applicants for their interest but advise only those selected for an interview will be contacted.

Accommodations are available during the recruitment process. Applicants contacted for an interview are asked to make their needs known in advance.