

# Rob Hutten

High Performance Computing  
Unix · Linux · Web

5528 Stanley Pl, Halifax NS B3K 2E7  
902.717.3456  
rob@hutten.org  
<http://ca.linkedin.com/in/robhutten/>

## Profile

A senior systems administrator with over 20 years of experience in industry, government and academic operations, often in team-lead roles. Strong knowledge of a range of UNIX/Linux platforms and related software, storage and networking, with a demonstrated history of responsibility for data management and user support. Possesses excellent interpersonal skills and is recognized as an effective communicator and educator.

## Technical Skills

**Operating systems:** Linux (RHEL, CentOS, Ubuntu), Solaris, FreeBSD

**HPC:** ROCKS Cluster Distribution, moab / maui schedulers, torque, Sun GridEngine, Infiniband

**Storage:** SAN, NAS, Ibrx, ZFS, Raid Manager, Veritas Volume Manager, Solstice DiskSuite

**Virtualization:** VMWare configuration and administration

**Web:** LAMP (Linux / Apache / MySQL / php) configuration, development and support; HTML & CSS authoring, CGI, various CMS (WordPress, MediaWiki, etc.)

**Shell scripting:** bash, Bourne shell

## Other Professional Skills

**Training:** Acted in leadership role initiating, planning, staffing and assisting in content creation and delivery for a cross-country series of bioinformatics workshops. Consistently received excellent client feedback for content and presentation.

**Technical writing:** Strong competency in explaining complex systems. Two decades of excellent feedback for providing clear, concise documentation for various systems.

**Team dynamic:** Strong interpersonal skills. Excellent history of compatibility with colleagues. Enjoys contributing to a positive, amicable work environment.

## Professional Experience

### Flagstone Management Services, Halifax, 2008 - 2013

#### Consultant, IT Services (April - June, 2013)

Assisted with transitioning of Linux clusters & related services to new parent company's infrastructure. Decommissioned older gear and provided documentation and inventory management. Acted as intermediary for communication between teams within both companies throughout the transition.

## **Senior HPC Systems Engineer (January 2008 - March 2013)**

Responsible for the day to day running, administration and support of several Linux clusters, as well as the daily operation and maintenance of an automated numerical weather forecasting system.

### **Accomplishments:**

- Designed and built processes and software for automating in-house weather models which generated forecasts for catastrophic events.
- Administered and supported a 1024-core cluster with infiniband interconnect and lbrix parallel file system which enhanced predictive accuracy and speed of weather and other catastrophe models.
- Deployed fully virtualized cluster environments for several development and disaster-recovery platforms.
- Managed production, quality assurance and development environments for in-house and third-party applications, ensuring shared resources were effectively assigned to priority processes.
- Participated in the installation, integration, acceptance testing and on-going maintenance of HPC systems to ensure high-availability for all applications.
- Planned and documented upgrades of various components of the HPC systems, effectively communicating with users to minimize disruption of development and production work.

## **National Research Council of Canada Institute for Marine Biosciences, Halifax, 1997 - 2007**

### **Research Informatics Systems Administrator, 2005 - 2007**

Handled all aspects of UNIX system administration and support for a high-performance research informatics environment.

### **Accomplishments:**

- Provided UNIX system administration, maintenance, security and support to over 1000 users to provide them with day to day support for all computer related issues.
- Produced and presented workshops and training courses to provide staff with relevant computer knowledge.
- Provided data protection, recovery and business continuity and tested and performed disaster recovery in a UNIX environment to ensure data integrity and security.

### **Operations Co-ordinator, 2004 - 2005**

Responsible for the technical supervision of a high performance distributed bioinformatics network with nodes across Canada and across the world.

### **Accomplishments:**

- Produced, organized and presented a cross-country series of workshops which taught informatics techniques to life sciences researchers, providing them with relevant and advanced computer skills relating to UNIX principles.

- Provided direction and technical support to the system administration and application / database teams to ensure quick resolution of service-related problems.
- Wrote and edited all end-user support documentation which provided all users with updated on-line technical guidance.
- Provided UNIX systems administration support and assisted the systems administrators in the architecture, operation, configuration and management of UNIX systems which resulted in more knowledgeable technical staff.

### **Unix System Administrator, 1997 - 2004**

Responsible for UNIX systems maintenance, administration, security and support.

#### **Accomplishments:**

- Provided system administration for a network of UNIX systems
- Developed and presented workshops and training programs to users which provided them with relevant training and experience in a UNIX environment.

### **Acadia University, Wolfville, 1992 - 1997**

#### **Unix System Administrator**

Provided operating system maintenance, administration, troubleshooting and emergency response for several academic and administrative platforms.

#### **Accomplishments:**

- Completed software development, installation and support, user support and consulting. Also handled network administration and system security ensuring that all user problems were solved quickly and efficiently.

## **Education**

Acadia University, NS: Bachelor of Computer Science program, enrolled 1988-1992

## **Certifications and Training**

Cluster Administration using ROCKS(Basic & Advanced), 2009

Sun Microsystems Fire High-End Server Administration, 2004

How to be a Better Trainer, 2003

Sun Microsystems Advanced System Administration, 2003

High Impact Presentation Skills, 2001

Sun Microsystems Storage Management, 2001

Sun Microsystems Solaris NIS+ Administration, 1998