Patrik Martinsson

Linux System Administrator

Stockholm, Sweden

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in Linkedin   ⬤ Github   Stackoverflow   Redhat Certified Engineer

My name is Patrik Martinsson and I'm a Linux System Administrator from Stockholm, Sweden. I'm a Linux-enthusiast, active in the community with various bug reports, patches, discussions, etc. I'm always eager to learn new things and can adapt very quickly to various kinds of situations. I'm running my own company called RedLin, specializing on Red Hat products.
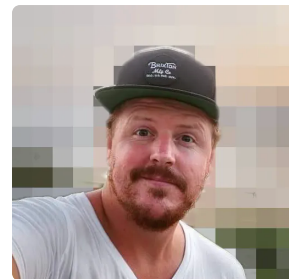
🛠 SKILLS

Linux
Master

red hat   bash   docker

podman   gnu tools   nginx

apache   kerberos   systemd

rpm packaging

DevOps CI / CD
Advanced

jenkins   gitlab ci   maven

nexus   bitbucket   pipelines

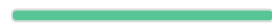buildconfigs   deploymentconfigs

Cloud
Master

openshift   openstack   ceph

terraform   aws   red hat director

infrastructure as code

Automation
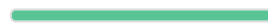*Master*

ansible   puppet   foreman

ansible tower   anaconda

kickstart   pxe

API / Integration
Master

vmware vsphere   openstack

jira   servicenow   infoblox

cisco ucs   op5 monitor   ldap

active directory   single sign on

Programming
Advanced

perl   python   php   go   c / c++

javascript   regular expressions

💼 WORK EXPERIENCE

System Administrator OpenShift / DevOps | Arbetsförmedlingen   **August 2020 - Current**
https://www.arbetsformedlingen.se

red hat   openshift   container   pipelines   kubernetes   infrastructure as code

My main responsibilites at Arbetsförmedlingen has been to operate and maintain their OpenShift clusters, this includes everything from gluster configuration, registries, metrics and monitoring, limit and quotas, as well as adding and removing nodes. Currently we are in the process of installing a new OpenShift 4.6 cluster, where Ceph will be used for storage and Cisco ACI-CNI integration for network integration. This will be installed on VMware for testing purposes and on dedicated Cisco UCS blades for production.

I've also spend quite some time with development teams, helping them containerizing their appliactions. Applications has mostly been written in Java (Spring Boot / JBoss EAP), Angular, Python, NodeJS, etc. On top of that I've also been working with development teams helping them creating pipelines in Jenkins (Groovy) and automating their process for releasing new code.

Linux System Administrator and Founder | RedLin PM AB

https://www.redlin.se

`red hat` `consulting` `linux system administrator` `automation` `standardize` `development`

RedLin is created and owned by Patrik Martinsson who has been in love with Red Hat for over a decade. We help our customers to automate, standardize and develop their infrastructure with the help of Linux and Red Hat products. At RedLin we can take on roles such as,

- Site Reliability Engineer
- Linux System Adminstrator
- DevOps Engineer

At RedLin we are used to tools such as Ansible and Puppet for automation and consistency. We also recognize the importance of having continuous deployment pipelines in place, not only for things like products and container images, but also for other parts of the infrastructure. Together with you, we want to build an fully automated, daily patched, high availability infrastructure.

We simply provide expertise and tailored solutions primarily built on Linux and Red Hat products.

Linux System Administrator | TriOptima   **April 2016 - November 2019**

https://www.trioptima.com

`openstack` `ceph` `red hat director` `ansible` `cloud` `terraform` `kerberos`

My main responsibilities at TriOptima has been the installation, configuration and design of their Openstack and Ceph platform. The setup spans over three data centers and is based on Red Hat Openstack Platform 13 and Red Hat Ceph Storage 3. The design includes everything from different availability zones, storage pools (both local and stretched between multiple data centers), and involves roughly 50 nodes. The deployment of OpenStack is done through the Red Hat Director, while Ceph is being deployed using the Ceph Ansible Playbook. We have chosen this configuration to get an environment that scales and fulfills our internal customers requirements.

During the implementation I've encountered quite a few bugs in various components (neutron, octavia, heat-templates, networkmanager) which have actively been reported upstream (also monkey patched a few things locally to work around numerous deployment issues).

On top of that I've also built our own internal portal where the users can create, delete and manage access to their projects. Authentication to the portal, and to the cloud, is done via Kerberos (Active Directory) and supports Single Sign On.

Linux System Administrator | SMHI   **May 2008 - January 2016**

https://www.smhi.se

`puppet` `foreman` `cisco ucs` `itrs op5 monitor` `automation` `vmware` `infoblox` `nfs`

My 'day-to-day'-tasks consisted of managing ~ 1000 Red Hat Enterprise Servers and ~ 150 Red Hat Enterprise Clients. Usually it involves making sure everything is up running and that the setups are consistent. This is essentially done by Puppet, Ansible and various automation-scripts (preferable in bash, perl or python). I've done a lot of scripting to various parts of our infrastructure, this includes Cisco UCS, VMware, Infoblox, HP iLO, Foreman, Puppet, ITRS OP5 Monitor, Cacti, Various CA technologies products, etc. As previously mentioned, my job often consisted of setting up, configuring, re-configuring, purging servers, so scripting is quite essential. I've been a key-player in SMHI's attempt to standardize their Linux Platforms (both for Servers and Clients). The goal was to make sure that every Linux Server and Client would be centrally managed and properly configured to SMHI's infrastructure and policies, that includes,

- Authentication (Active Directory, Kerberos, Smart Card, PKCS11, Cisco Anyconnect)
- File shares (NFSv3, NFSv4 + Kerberos, automount)
- Wireless 802.1x (Certificate enrolment through SCEP)
- Fully automated installations and configurations for both Servers and Clients (available for customers through self-service-portals)

🔁 VOLUNTEER

Linux System Administrator | SIDA   **October 2013 - November 2013**

`request tracker` `mediawiki` `virtualization`

On behalf of the SIDA-organisation I've been visiting the "Department of Meteorological Services" in Botswana two times. My workthere has mostly consisted of deploying Linux Servers and setting up a "Request Tracker" - system and a wiki. The Biggest challenges with these missions has been the lack of infrastructure, internet access and the fact that everything has to be done while being there, no remote work has been possible.

EDUCATION

Separate Courses | Umeå University, Linné University   **2009 - 2010**

- Linux as a developing platform c gcc make shell
- Structured Programming with C++ object oriented c++ classes boost

Linux System administration | Jensen Education   **2007 - 2009**

- Database Administration sql relational database theory database modelling normalization troubleshooting
- Network and computer communicationn inetd xinetd postfix bind apache nfs ldap
- The Operating System Linux gnu tools file system file permissions pipes regular expressions
- Programming in Linux compiling shell scripting perl python bash monitoring
- System Administration Linux user management logging backup kernel modules virtualization storage solution
- Web server administration virtual hosts server side includes cgi-scripts ssl logging