Patrik Martinsson

Linux System Administratör

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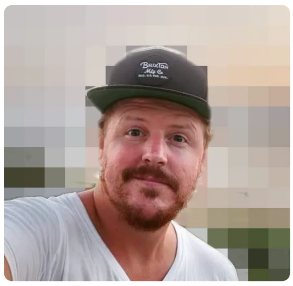
Linkedin Github Stackoverflow Red Hat Certified Engineer | Ceph



Jag heter Patrik Martinsson och arbetar som Linux Systemadministratör. Jag är en Linux entusiast som är aktiv i olika open source-projekt, mestadels via olika buggrapporter, patchar, diskussioner etc. Jag strävar alltid efter att lära mig nya saker och anpassar mig snabbt till olika situationer. Jag driver även mitt egna företag RedLin, där vi specialiserar oss på Red Hat produkter.

KOMPETENSER

Linux
Mästare

containers | red hat | bash | docker | podman | grafana | prometheus | nginx | apache | kerberos | rpm | systemd

DevOps CI / CD
Avancerad

argocd | tekton | helm | gitlab ci | bitbucket | pipelines | jenkins | maven | nexus | buildconfigs | deploymentconfigs

Moln
Mästare

openshift | kubernetes | openstack | ceph | terraform | aws | red hat director | objectstorage s3 / swift

Automation
Mästare

ansible | puppet | foreman | ansible tower | anaconda | kickstart | pxe

API / Integration
Mästare

vmware vsphere | openshift | jira | servicenow | infoblox | cisco ucs | op5 monitor | ldap | checkmk | active directory | single sign on

Programmering
Avancerad

perl | python | php | go | c / c++ | javascript | regular expressions

ARBETSLIVSERFARENHET

OpenShift Specialist / DevOps Engineer | Arbetsförmedlingen
https://www.arbetsformedlingen.se

August 2020 - Current

openshift | kubernetes | cloud | argocd | containers | devops | infrastructure as code

På arbetsförmedlingen har mina huvudsakliga arbetsuppgifter bestått i att designa, konfigurera samt installera deras nya molnmiljö baserad på OpenShift 4.6. Underliggande storage är byggd på Ceph och nätverksintegrationen är gjord med hjälp av Cisco's ACI-CNI plugin. Jag har lagt mycket fokus på självadministration där Oauth2 används för autentisering samt Servicenow för projekthantering. Klustret är installerat på Cisco UCS hårdvara som i sin tur är spridd över flera datacenter för att uppnå högtillgänglighet.

Jag har även hjälpt olika utvecklingsteam att containerisera deras applikationer, detta i form av Java (Spring Boot / Jboss EAP), Angular, Python, NodeJS, etc. Utöver det har jag även tagit fram pipelines i Jenkins (Groovy) åt olika team för att underlätta processen vid driftsättning av ny kod.

Jag har också arbetat med att installera olika produkter för att demonstrera fördelarna med en molnmiljö, exempel på applikationer är PostgreSQL, MongoDB, Jira, Mattermost, Rocketchat, Element Matrix, Pastebins, osv.

Linux System Administrator and Founder | RedLin PM AB **May 2020**
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