

Nihal Castelino                                           nihalcastelino@gmail.com 07585853235

SUMMARY

# 8+ years of excellent experience in System Administration on RedHat Linux AS 2.1/3 /4 / 5 EL 3 /4 /5 CentOS 4/5/6/7, Ubuntu & Windows 2000, Windows 2003, Windows 2008 and Windows NT.

# Production Environment support comprising of Windows/ Linux / UNIX servers.

# Proficient in various tools like RSA, ILO, RILO, Altiris, Putty.

# Proficient in configuring Redhat Linux Clusters, Creating Users, Groups, Crontab, File Permissions, Volume Management, OS hardening, customer support, backup and restore, performance tuning, configuring printers, configuring X servers, rdesktop, routing.

# Linux patch management, debugging Perl and Python scripts and configured open source monitoring tools like Zenoss, Nagios and Cacti.

* Configured Linux servers like DNS, DHCP, Samba, NFS, Sendmail, httpd, daemon, FTP, Telnet, SSH, Firewalls & Package Management using RPM and Yum.
* Troubleshooting, Debugging, Disaster recovery planning and implementation and product research/new release evaluation.
* Installed Red Hat Linux, created using Kickstart respectively.

# Have a good knowledge in VMWARE, installed and configured ESX3.5 Servers, workstation,Virtual Infrastructure client and vSphere client.

# Administered VMware using vCenter and vSphere

* Troubleshooting different HP/DELL Servers & monitoring the servers. Worked on KVM switches & F5 Load Balancers.
* Configured and Installed Altiris Deployment Console for the deployment and installation of custom components.

# Wrote BASH Shell and Python Scripts and used String Processing tools (GREP, CUT, SED) for day to day administration, monitoring and deployment.

* 5+ years of excellent experience in Cloud administration on AWS and Rackspace and Azure.

TECHNICAL SKILLS

Hardware: Sun, Dell, IBM, HP, Acer and Compaq Compatible Machines, IBM,Cisco:- 800 1600 1701 2500, Cisco & 3com L3 switches, Repeaters, Wi-fi ,F5,Cisco Blades

Operating Systems: Redhat Linux AS & EL 2.1, 3, 4 & 5.1,5.3,5.4, Suse Linux 9, Fedora 4, 5,6 Sun Solaris 8/9/10, Windows 2003 / 2008, Vista, VmWare, Ubuntu, Win XP ( Professional &Home) ,MacOSX,CentOS 4/5/6/7

Scripting: BASH Shell, Python and Perl.

Tools:  Putty, WinSCP, Rsync,fabric.

Virtualization: VMware ESX,Workstation, Sun Virtual Box, vCenter, vSphere.

Network Analyzer: Sniffer, Lanalyzer. AngryIP, Nimsoft.

Mail: Sendmail, Microsoft Exchange Server, LotusNotes.

Webserver: Apache, Tomcat, Nginx.

Software Load Balancer: Nginx

RDBMS: Oracle, MS SQL, MySQL

Storage: Veritas Volume Manager (VxVM), NAS, SAN, iSCSI

Software Packages: Remedy, Putty, RSA, RILO, ILO, Altiris, Vintela, Bladelogic, Parity, SRM, VSA,Citrix, Vmware, WinSCP, HummingBird Exceed, MS office 97/2K/XP/2K3, Visio,  CuteFTP, Webmin, Siteminder, PC Anywhere, RAdmin. Platespin,Comvault,Opsware.

PROFESSIONAL EXPERIENCE:

Infrastructure and Cloud Architect

Intechnica May2015-Present

* Architect and Implement PCI compliant Infrastructure for TrafficDefender([trafficdefender](http://www.traffic-defender.com/about/what-is-trafficdefender/))
  + Setup LDAP, HIDS, Spacewalk software repository,Proxy and Monitoring and Logging.
  + Define Roles for Employees working for PCI Compliance.
  + Setup Change Request Process and Audit procedures.
* Implement AWS Best Practices with regards to infrastructure, HA and security.
* Setup and Implement Best practices for Development.
* Setup Infrastructure as code.
* Automate Deployment procedures.
* Automated AWS cost reports for Management.
* RFP for customers.
* Architect HA solutions for Customers.

Sr.Cloud Operations Engineer:

Appsense Jan2013-May2015

* Provision and manage AWS infrastructure for SaaS Platform.
* Deployment automation using python. Deploy code to servers and AWS Beanstalk.
* Setup Juniper for Lab DMZ.
* Setup F5 Software appliance for app level VPN.
* Provision and deploy mac mini’s with proprietary software.
* Setup separate DR infrastructure.
* Setup Opsview monitoring server with DR. Write custom plugins for monitoring.
* User Management and provisioning on AWS using IAM.
* Setup ESXi on HP Blades for Internal Labs.
* Create custom AMI’s for automation.
* Setup and Install SumoLogic and Sumo Logic agents for log management.
* Interfacing with AWS architects on Best Practices and architectural reviews.
* Evaluate New technology and present POC,
* Part of 2 person weekly on-call rotation responsible for after-hour issue management.
* Assist dev and support with problem diagnosis.

Cognizant Technical Solutions:

Client:Cloud360 Nov2011-Dec2012

Cloud360 is Cognizant’s cloud initiative that provides provider agnostic cloud management solutions

Operations/QE:

* Provision and manage Cloud360 Lab infrastructure hosted on Vmware ESX 4/5 and EC2.
* Setup iscsi storage for the ESX datastores.
* Create/package VM images/clones/templates.
* Create test cases for the specific functionalities related to Monitoring,Business Policies .
* Test remote agent installation for Linux and Windows instances.
* Write Python scripts for new app user setups.
* Write Python scripts for auto LVM based root partition extension and partition and create file system on newly added disk for Vmware.
* Write Python script for partition and create file system on newly added disk for AWS instances.
* Setup and test AWS VPC.
* Create and package VMDK’s for test purposes.

Cognizant Technical Solutions:

Client: Ask Sponsored Listings/Sendori AdServing Platform Oakland CA. Apr2010-Nov2011.

Site Operations:

* Production support for Sendori platform.
* Launch and Provision EC2 instances having CentOS 5.4 base OS.
* Create EBS snapshots and AMI’s for backup and recovery.
* Wrote Python and BASH shell scripts for automated application deployment and administration.
* Setup Hadoop, Hbase Clusters, Hive, Zookeeper and Memcache in Dev, QA, Staging and Production with High Availability solution using DRBD.
* Setup MySQL DB servers for production.
* Setup Raid 0 and LVM using EBS volumes to dynamically increase the storage.
* Defined DB backup process and automated backup to S3 bucket.
* Wrote python provisioning script to automate environment provisioning by launching, configuring and adding basic OS monitors to EC2 instances.
* Wrote init scripts that would install the application on instance boot and attach the instance to the ELB once the application is running.
* Converted Instance store backed EC2 instances to EBS backed instances for backup solution.
* Configured Auto Scaling of adservers based on “Request count” threshold measured in ELB via Cloudwatch.
* Setup RDS for MySQL DB to leverage on AWS multi-AZ mode redundancy.
* Setup and configured Zenoss for OS base monitoring and application monitoring using Zenoss JMX plugins.
* Wrote shell scripts to monitor Database replication delays.
* Capacity assessment for the various application clusters.
* Setup FTP and Rsync server and wrote custom rsync script to copy logs from 3rd party source.
* Wrote python scripts for application restart that detach and attach EC2 instance from ELB before and after the restart.
* Co-ordinated and delegated work to off-shore team for project related work.
* Created post-mortem reports for production site incidents.

Optimus Systems Inc,

Client: Symantec Corporation (Norton range of Anti-virus), Mountain View,CA.  Oct 2009-March 2010

Systems Administrator/Application-Operations

* Installation and configuration of RedHat OS Ver. 4.4,4.6,5.3,5.4,  etc.
* Installation of VMware ESX servers and creating new Virtual machines, deploying templates and cloning VMs.
* Installation and configuration of monitoring software including Nagios and Cactii.
* Troubleshooting network related issues including routers, firewalls, and load balancers.
* Scripting and automation for Linux and Unix servers.
* Testing and deployment and debugging of Red Hat Linux packages in production as well as Beta,ET and UAT environments.
* Cross functional team coordination for issues related to production support ,upgrade , backup , storage , networking.
* Raise Remedy tickets for change requests and Incident management and assign it to the teams concerned.
* Setup and configuration of F5 load-balancer for QA test environment.
* Creating and deploying jobs for deploying components using Altiris Deployment Console.
* Maintaining QA environment by deploying custom OS and maintenance of hardware.
* Installed RHEL 5.4 on test and Beta servers for dev team upgrade feasibility tests.
* Provide weekly status reports to the management.

XTS-Group                                    Oct2007-Oct2009

System Analyst/Administrator

* Level 3 Production Support of Windows, Unix and RedHat System.
* Configured for Kickstart Servers and kicked 400+ servers comprising of Physical servers, Virtual Servers and blade Server. Interacting with various departments for problem resolution and worked closely with many application owner across the globe.
* Was a part Data Center Transformation project and successfully transformed all the servers and coordinated with Application owners for the requirement and documented the entire process.
* Installed Redhat Cluster Server  and written cluster scripts for GFS File System.
* Configured Oracle RAC Servers. Scripted the entire Oracle RAC installation. Configured Oracle ASM and OCFS FileSystem.
* Created new Virtual Servers and cloned many virtual servers.
* Platespin for Linux Server  like Virtual 2 Virtual , Physical 2 Virtual & Physical 2 Physical.
* Configured TSM / RMAN Backups and installed all the application agents.
* Configured Satellite servers installed application in accordance with the standard procedure of the company and always updated the server from the satellite.
* Troubleshooting the UNIX / LINUX production system.
* Worked closely with many Hardware Vendors for hardware upgrades and support.
* Installed Apache servers, SSL Keys, Configured LDAP, Installed Monitoring, Installed Tripwire.
* Configured Bonding on all servers and configured the Storage according to requirement.
* Wrote scripts to day to day administration and automation of the server builds.

# EDUCATION

B.E in Instrumentation Engineering

CERTIFICATION

AWS Solutions Architect Associate