**SWANAND PATHAK +91 900460 2258** **swanandp@gmail.com**

**SUMMARY:**

* RHCE – Red Hat Certified Engineer with 15+ years of experience on production and development systems as Linux/UNIX System Administrator.
* Adoption and Migration to **Hybrid Cloud, In-premise and AWS** etc
* **Scripting in Shell, Perl and Python for automation tools**/scripts development.
* Extensive experience in administering, installing, managing, and troubleshooting on Linux and UNIX Servers[ 1500+ server Environment / Server farms].
* Linux - RedHat [6.2, 7, 7.1, 7.3, 8, 9], RHEL 2,3,4,5 RHAS 3, 4,5, Debian 3, SUSE 8,9,10, Fedora core 2-9, CentOS, Ubuntu etc.
* Solaris – 8,9,10 and Databases - Oracle [9i,10g,11g] MySQL, DB2
* Rigorous knowledge in the field of Open Source technology implementation
* Extensive experience over various domains including Mail Solution, Proxy/Gateway, Linux Firewall
* Rigorous experience in Complete Mailing soultion using SendMail, Qmail[2+ yrs]
* Implementation and Maintenance and troubleshooting of 25+ live servers
* Installed/Configured various services NIS, NFS, DNS, MTA’s, LDAP, IDS, tomcat and Apache on Linux operating systems
* Firewall rules setup with IPCHAINS , IPTABLES, forwarding, Redirecting, Masquerading, Stateful firewalling.
* Web admin experience for Apache/Tomcat, JBoss, WebLogic and WebSphere servers.
* Advanced scripting experience with BASH and PERL.
* RPM Packaging done for Linux and pkg for Solaris.
* Installation and configuration of Oracle 9 and 10G, RAC, MySQL etc.
* Maintaining DRBD clusters, Heartbeat , RH cluster and RH Satellite.
* Installation and Implementation of VMWare ESX Server [2.5 & 3.x], Bash Script written to automate the live backup of virtual hosts
* Implemented OpenSource PBX – Asterisk [VoIP] server
* Working experience on Opsware SAS – for managing package deployments on server farms , Oracle RAC, GFS etc.
* Configuration of LVM’s in Linux, Veritas Cluster, Veritas Volume Manager.
* Administration of core servers for Parallels System Automation.
* Strong problem-solver who can design and implement solutions. Ability to work under minimal supervision. Excellent written and oral communication skills.

**TECHNICAL SKILLS:**

***O/S:*** Linux ( 16+ Years ) [ RH 7.1,7.3, 8, 9, RHEL 2-8, Fedora 2-6, RH AS 2,3,4], Solaris(8,9,10), Debian 3.0, SUSE [SLES 8,9,10], Ubuntu ,Windows[98 – 2k3], BeOS, QNX

***Cloud:*** Hybrid on premise Cloud solution + Public Cloud , Legacy apps migration

***Virtual Servers:*** Vmware ESX/VSphere , Live backup and restore of Virtual Machines using custom script written.

***Applications:*** Email Administration (Qmail /Sendmail), Web (Apache/Tomcat) Administration, DNS [Bind], Squid, NFS, LDAP, Ipchains, Iptables , Samba Asterisk [Open Source PBX] VoIP server Opsware SA – Server Farm Administration , Weblogic, Websphere, Jboss, RH Satellite, Pulp, Access Control tools like A2P.

***Security:*** Ipchains/ Iptables based stateful firewall, SSH, Tcpwrappers, Snort, IPAudit, Ethercap, Tripwire, chkrootkit

***Languages :*** Perl, PHP, Shell [Bash] & Python Scripting.

***Networking:*** Linux based gateways, routers, Firewals [IPCHAINS, IPTABLES], CISCO switches and router configuration, IPSec tunneling setup

***Storage*:** IBM System Storage [DS4800, DS4300], Sun StorEdge, HP Storage, NetAPP.

***Hardware:* AMD / Intel based Servers -** IBM x-Series Servers for **Linux**, IBM Bladecentes, IBM Console, HP Blade centers and HP DL hardware, iLO devices, Intel Family, HP OpenView. , Dell servers , VMWare virtualization, Cisco UCS.

**Education: Bachelor of Engineering in Electronics**

#### *Mumbai University, Mumbai, India*

**TRAINING: Perl** Advanced Programming, Shell Scripting, Big DATA, VCP etc.

#### Certification: RHCE - Redhat Certified Engineer [RHEL 4]

 **VMWare VCP 5.1**

 **ITIL Certified** [2011 Syllabus]

 ECCOUNCIL’s **CEH** - [Certified Ethical hacker]

**EXPERIENCE:**

**Tech Leader[Associate] ( Linux/Unix SA team Led for Asia/India)**

***08/11 – Current*** ***Nomura Services Pvt. Ltd.***  *Mumbai, India*

Nomura is a investment bank with its origin from Japan.

* Linux/Unix SA for all stages of banking divisions.
* Leading global teams for Unix Packaging and Access Control Support.
* Managing Hybrid Cloud based infrastructure - Unix/Linux server farm[Physical + Virtual] of 10K hosts.
* Scripts for automation using bash, Python and Perl.
* RedHat Satellite, Ansible & RH Cluster Suite
* Support for custom/third-party Java Based applications.
* VMWare virtualized environment administration.
* HP & Cisco UCS Hardware
* Unix Support for Middleware tools, Apache/TomCat, Databases, network etc.
* Veritas VxVM and VCS administration.
* Managing HP-SAS[Opsware] infrastructure.

**Environment: Hybrid Cloud -Private and Public AWS, UCS, Linux**, **RedHat**, **Satellite, Ansible, Docker, RH-CS, DevOps[Git/Jenkins/Nexus],** Soalris, Apache, DNS/LDAP/OpenDJ, Vmware ESX 6, ESXi 6, vSphere 6.5, Veritas VxVM and VCS,HP-SAS[Opsware] ,Shell scripting, HPOV/Sentinel.

**Sr. Linux SA - [Contract for IT Solutions]**

***05/10 – 07/11 VMWare Inc.***  *Palo Alto, CA*

VMWare Inc. is growing exponentially, with the product line such as ESX servers, taking the world to a new virtual level.

Role: Senior Linux SA – ITOPS

* Linux SA for all stages of VMWare product development.
* Building Linux VM’s for Dev, stage, prod. Etc.
* Puppet design change and implementation for all stages of SDLC.
* VM creation and OS install through kickstart, RedHat/Ubuntu etc.
* Coordinating with storage, network,DB and application teams to build the complete system.
* Linux troubleshooting for DNS, Apache, Puppet, LDAP and other issues.
* Participating VMWare product testing, such as vSphere 4.0, 4.1 and ESX 4.0.

 **Environment:** Linux, Vmware ESX, ESXi, RedHat, Ubuntu, Apache, DNS, vSphere, Puppet, LDAP, DNS,shell, ruby.

**Senior Engineer –[Linux system design/architecture] - [Contract for IT Solutions]**

*03/10 – 04/10* ***Soundbite Communications*** *Bedford MA*

SoundBite's on-demand, integrated multi-channel communications solutions

 enable clients to achieve superior business results. They have built on their foundation of

 leading-edge automated voice messaging services to offer integrated voice, text, and

 email messaging solutions that are delivered through a Software-as-a-Service model.

Role: Senior Engineer – OPS

* Architect for complete Linux based environment for a web based product.
* Building custom HP servers, racking and OS install.
* VMWare ESX server install and VCenter etc. configuration.
* VM creation and OS install through kickstart, RedHat/CentOS etc.
* Coordinating with storage, network,DB and application teams to build the complete system from scratch.
* Linux troubleshooting for DNS, Apache, JBoss, Firewall and other issues.
* JBoss, Apache, DNS, weblogic configuration for new environ ment.

 **Environment:** Linux, Vmware, Shell, HP, Apache, DNS, JBoss, vSphere, Visio, HP

 DL360,385,585, G4,G4P,G5,G6.

**Senior Engineer –[Linux/Unix/Mac] - [Contract for IT Solutions]**

*10/09 – 02/10* ***Vertex Pharmaceuticals*** *Boston MA*

Vertex Pharmaceuticals Incorporated is a global biotechnology company committed

 to the discovery and development of breakthrough small molecule drugs for serious

diseases.

Role: Senior Engineer – GIS

* Administration and maintenance of Linux/Unix based servers.
* Building new physical/virtual servers.
* Unix support for Oracle DBA’s for Oracle 10g and 11g.
* Shell/Perl scripting for daily administration and automation.
* Hardware maintenance for SUN Servers, HP/Dell servers
* Mac servers basic administration, compiling custom scripts for monitoring.
* Working with RedHat/ Sun etc. vendors.

 **Environment:** Linux, Solaris, Vmware, Shell, Sun Sparc, Nagios, Groundworks., SUN

 v240, v440, 280R etc.

**Sr. Linux Engineer/Admin - [Contract for IT Solutions]**

*06/08 – 10/09 NYC Gov - DOITT Brooklyn, NYC, NY*

 The New York City Department of Information Technology and

 Telecommunications (DoITT) oversees the City's use of existing and

 emerging technologies in government operations, and its delivery of services

 to the public. DoITT works to improve the government's efficiency through

 technology, and to make communication with the government straightforward

 and clear.

 Lead Linux Engineer [Linux/UNIX Servers, Migration,

 VMWare, Parallels System for Automation]

* Design, buid and maintenance of RedHat and SuSE Linux servers[Server environment **600+**]
* Migration of servers to new hardware [Blade Center] and new OS version.
* Responsible for all UNIX related troubleshooting including OS, device drivers, OS tuning, Kernel tuning, environment setup for applications etc.
* Maintaining VMWare Linux cluster environment, troubleshooting ESX and Linux Virtual Machine issues.
* Creating Linux virtual machine’s on ESX Server 3.x.
* Assist VMware admin to configure Virtual Infrastructure Management software to create ESX cluster, configure Networking and Storage for Virtual environment.
* Migration of physical server to VM and vice versa.
* Maintaining Mysql DRBD cluster server and RH Cluster.
* Maintaining SUSE Update server[YUP] and RedHat Satellite Server [5.3] and YUM for OS updates.
* Writing Perl/bash scripts for automation and better administration.
* Linux OS support provided to storage[NetAPP], DBA[MySQL , MSSQL] and web application [Apache/Tomcat/JBoss] teams.
* Apache installation and configuration for agency websites.
* 3-tier lab environment built for testing of Parallels System Automation, using 4 linux servers acting as Router/firewall, DNS server.
* Handled support issues with vendors like RedHat, VMWare, Parallels etc.
* Maintaining the Linux Lab environment.
* Troubleshooting of Linux, UNIX network, boot related issues.

 **Environment:** 600+ Servers , Linux Red Hat EL AS 3, 4& 5.4, Suse [9,10], Vmware

 ESX 3.x, Fedora, Ubuntu, Solaris 10, DRBD cluster, Squid reverse proxy, Control

 Panel [Parallels System Automation], MySQL clustered server, LDAP, SSL, IPTables

 firewall, NetAPP, AMD based HP Blade centers and HP DL hardware iLO devices,

 Intel Family, HP OpenView. ,Dell servers , VMWare virtualization, VMware-Linux

 related issues, BASH Scripting. SCSI/Sata/HBA drivers, Multipathing.

**LINUX EXPERT - [Contract for IT Solutions]**

*11/07 – 06/08 IBM – NYPD NYC,NY*

 Lead Linux engineer of **IBM** Infrastructure team at New York Police Dept.

 Headquarters. The **New York City Police Department** (**NYPD**), which was

 established in 1844, is currently the largest police force in North America, with

 primary responsibilities in law enforcement and investigation within the five

 boroughs of New York City. The NYPD is considered to be one of the first "modern"

 style police departments in the United States along with the Boston Police

 Department.

System Engineering and Maintenance [70+ Linux/UNIX Servers, Shell/Perl, Migration]

* Design, build and maintenance of SuSE Linux servers [**70+**] for maintaining packages [system/application] on server.
* Design and Migration of servers to new hardware [Blade Center] and new OS version.
* Responsible for all UNIX related issues troubleshooting including OS[ SuSE , RedHat ], device drivers, OS tuning, environment setup for applications etc.
* Build of standard BLAST IMAGE of Suse Linux ES 10 [Compiled kernel, Device drivers, performance tuning for OS and application , customization as per requirements, security patching].
* Web server administrator for Apache/Tomcat, WebLogic and WebSphere, running critical web portals for NYPD.
* Creating and maintaining Logical volumes on Linux servers.
* Fiber Channel HBA device drivers and RDAC failover drivers installation for SAN storage mounts.
* Boot from SAN [IBM storage] used with SUSE Linux.
* Work with RAID configuration-RAID 0,1,5, 0+1
* Writing Perl/bash scripts for better administration.
* Linux OS support to application teams such as DBA [DB2], Portal [WebSphere, Tomcat], Weblogic, Cognos, and Informatica teams.
* Monitoring of the servers with Nagios.
* Maintenance of BLADE CENTER HS20, 21, IBM 3850 servers.
* Troubleshooting of Linux, UNIX network, boot related issues.
* Handled support issues with vendors like SuSE, IBM etc.

**Environment:** SuSE Linux 8, 9 & 10, RAID, HBA-qlogic-RDAC, DB2, WebSphere, Tomcat, Nagios, Kernel compile, Java apps, Blade center, Bash/Perl, IBM x-Series Servers for Linux, IBM Bladecenters[AMD/Intel], IBM Console, Dell servers. SCSI/Sata/HBA drivers, Multipathing, 800+ servers.

**Sr. SYSTEM ENGINEER**

*09/06 - 10/07 Lehman Brothers Mumbai, India*

Opsware & Unix Administrator [Linux/UNIX, Shell/Perl]

* Administration and maintenance of Opsware for maintaining packages[system/application] on server farms[**10000 +** servers]
* Building and testing RPM packages of custom applications for Linux as per RPM standards. Troubleshooting RPM install/deploy issues/conflicts etc.
* Packaging custom applications for Solaris[pkg format]
* System administration and production support of Linux and Solaris systems
* Solving Opsware agent issues on UNIX machines
* Deployment of patches/applications on multiple servers using Opsware
* On call Support of Opsware CORE servers for US, London and Tokyo region
* Training On-site system admins for troubleshooting opsware/UNIX related issues
* Working with UNIX SA team for mass deployment of patches, networking/firewall issues.
* Worked with Grid team, for Linux RPM package / patch install related issues, Oracle on GFS, and basic linux OS support.
* Worked on jumpstart/kickstart installation for Linux.
* Writing Perl/bash scripts for better administration
* Perl/shell scripts with SQL queries to monitor and perform operation on database
* Perl scripting - Adding features/bug fixing for custom interface developed for package creation.
* Custom java based application/weblogic components packaging and deployment support.
* Escalation of major Opsware issues to Opsware Support

**Environment:** Linux Red Hat ES, AS 2, 3 & 4, Solaris 8, 9 & 10, Creating RPM and pkg [Solaris] packages. Opsware Automation [5.x,6.x], Bash/Perl/Python scripting.

**TECHNICAL CONSULTANT**

*11/05 - 09/06 Lanware Mumbai, India*

Responsible for Linux Administration [VMWare, Asterisk (Open -PBX)]

* Linux Administration (VMware servers), Perl scripting, DNS routing for Mail, Proxy server, Asterisk VOIP server.
* Installation of ESX VM ware servers and maintenance on Linux Debian servers.
* Patching required for ESX server on Linux.
* Online backup of virtual server using vmsnap.pl and vmres.pl. Bash script written for Automation of backup of live virtual hosts.
* Troubleshooting of OS and network issues on ESX VMWare server.
* Creation of Virtual Machines, OS installation etc.
* Asterisk [Open PBX] – Installation of Asterisk and related packages on Debian Linux.
* Design and Configuration of SIP for communication using SIP IP phones.
* Administration of the VoIP server for call handling and proper functioning
* Successfully configured Cisco IP phones 79xx series for VoIP
* Installation and admin for Oracle 10G R2 RAC servers.
* Working knowledge on Veritas Cluster, Veritas Volume Manager.
* Working with Windows Admins for mail route configuration on Exchange servers
* Control mails routing for virus/spam scanning using MX settings on the Host server[control panel]
* Writing Perl/bash scripts for better administration.

**Environment:** Linux – Red Hat [RHEL/RHAS 2,3,4 ], Debian 3, Windows 2000 and 2003, Oracle 10g, VMware ESX 2.5,3 servers, Shell scripting , Perl scripting

**Solaris Admin Support**

*08/04 – 10/05 EDS – Electronic Data Systems*

 *Client: Sun Microsystems*

* Maintenance of Solaris based NFS, Mail servers located all over the world.
* Admin support for Sun data center with EDS for **1000+** Servers.
* Other Solaris server maintenance tasks depending on CPU and memory load related issues.
* Maintaining user and group accounts through NIS.
* Account creation on Home dir server and Mail account on Mail server.
* Resolving mail routing issues
* Monitoring daily backups and their status.
* Restoration of the data from backup drives.
* Terminals [SunRay] and Printer Management
* Member of Sendmail to EdgeMail Migration support team
* Handling Escalations on mail, data loss issues
* Escalation of Solaris system/kernel/hardware issues to solaris support team
* Writing Perl scripts for better administration.

**Environment:** 1000+ Servers,Solaris 8, 9, NFS, Sendmail, EdgeMail, NIS, SunStorage, Data backup, RBAC, SunONE Servers, Autosys.

**SENIOR SYSTEM ADMINISTRATOR/DEVELOPER (PERL, MYSQL, PHP)**

*10/03 – 07/04 Brisk Infotech Mumbai,India*

* Administration and Maintenance Of Live servers [3 Live Server- Mail and Web]
* Installation of Linux OS, Hardening of the OS.
* Deciding packages required for software/application.
* Mail : Installation and configuration of Qmail for multi-domain Mail Server, more than 50 domains having around 3000 Mail boxes and 10000 mail transfer/hour.
* Web: Installation and configuration of Apache and Tomcat for more than 30 domains for the website hosting with virtual host.
* Administration and Maintenance of Local servers at the client side
* Implementing Linux based servers (Mail,Proxy,Firewall etc.).
* Configuring servers for local users.
* Implementing qmail and sendmail based mail servers, Ipchains/ Iptables based firewall, DNS [Bind], Apache, LDAP, Squid- Proxy servers.
* Configuring Local gateways for Internet, Mail, and to connect other locations over the leased lines.
* Implementation of Oracle on linux .
* Custom software development lead.
* Software designed – QMAIL LOG ANALYSER - Perl program parses the log file and generates the log for mail transferred by qmail and dumps in mysql database. A PHP page gives an interface to view the maillog in database in a user friendly format.
* Development using Perl, PHP for better server control and feature enhancement.

**Environment:** Linux 6.2, 7, 7.1, 7.3, 8, 9, RHEL 2, 3, Fedora core 2, Sendmail, Q-Mail, NFS, Samba, Squid-PROXY, Ipchains, IPTables, Apache-Tomcat, LIVE WEB and MAIL server, Oracle 9i, MySQL, PHP, Perl, Bash scripting.

**SYSTEM ADMINISTRATOR – LINUX** [Part Time]

*2001 – 2003 DM College of Engg. Mumbai, India*

* Administration of Linux in college Lab with approval from Electronics department head
* First to implement Linux in college[DMCOE, NEW MUMBAI] computer labs
* Configured terminals using LTSP – Linux Terminal Server Program
* Replaced Novell based terminals with Linux terminals
* Awareness of Linux through college events, seminars and technical festivals
* Designed and programmed website for awareness of Linux and other computer related issues - <http://techieinfo.freeservers.com>

**Environment:** Linux Installation and configuration, LTSP, tftp, telnet, gcc, g++ compilers