**Name: Nischal Nepal**

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**SUMMARY:**

* **10+ years in IT industry with active OPM Security Clearance.**
* Experience as a System Administrator and Production Support of various applications on Sun Solaris, Red Hat Enterprise Linux, and Windows environment.
* Experience configuring and managing Puppet master server and also experience in updating and creating modules and pushing them to puppet clients.
* Proficiency in writing automation scripts using Chef, Puppet, Shell, PowerShell to support infrastructure as code and continuous deployment.
* Experience in Installing, configuring and maintaining Samba, Web Sphere & Web Logic Application Servers, Nagios and Chef.
* Strong proficiency in supporting Production Cloud environments (AWS, Azure, VMWare) as well as traditional managed hosted environments.
* Understanding of ITIL framework and methodologies
* Good understanding of Virtualization and Cloud computing concepts
* Hands on experience on Azure services (viz. Azure Monitor, Security and Compliance, Protection and Recovery, Storage, Operations Management Suite, Application and VPN Gateways, Active Directory)
* Experience with Azure Resource Manager portal
* Experience in setting up and configuring site-to-site virtual networks
* Configuring storage accounts, backup vaults at VM level
* Provisioning environments and server administration on Azure
* Ability to work with application teams and understanding the requirements on capacity, performance and deployment architectures
* Experience on networking aspects like IPs, subnets, inbound and outbound ports and firewall rules
* User management and security aspects
* Proficiency in PowerShell scripting
* Ability to effectively articulate technical challenges and solutions
* Deal well with ambiguous/undefined problems Supported AWS Cloud environment with 200+ AWS instances and configured Elastic IP & Elastic Storage and also experience working on implemented security groups.
* Knowledge of Big data and Hadoop ecosystem and its components like HDFS, Hive, Pig, Scoop and HBase.
* Experience in software Build tools like Apache Maven, Apache Ant to write Pom.xml and Build.xml respectively
* Efficiency in installing, configuring and implementing the LVM, and RAID Technologies using various tools like Veritas volume manager, Solaris volume manager.
* Experience in Installed and configured Apache/Tomcat/Java/MySQL.
* Experienced in Amazon EC2 setting up instances, virtual private cloud (VPCs), and security groups.
* Configuring and Administering DNS, NIS, NIS+, LAMP and LDAP on Sun Solaris server environment.
* Hands-on experience in implementation for Automated Environment Provisioning using open source tools like chef and vagrant.
* Strong experience with CI (Continuous Integration) and CD methodologies with Jenkins
* Experience in Install and configuration of Web hosting administration HTTP, FTP, SSH.
* Experience in Installing, upgrading and configuring SUSE, SUN Solaris 9 and 10 on Sun Servers Using Jumpstart Servers, Manual installation as when required.
* Experience in Installation of VMware ESX server and creation of VMs and install different guest OS.
* Established capabilities in application design, implementation, and troubleshooting, monitoring, maven improvement and change controls. Enhances and automates internal processes to generate efficiency
* Experience in Installation and configuration of Zones and Containers in Solaris 10 environment.
* Experience in Creating and maintaining user accounts, profiles, security, rights, disk space and process monitoring.
* Experience in Veritas Volume manager (VxVM), Mirroring, and striping, Parity, New File Systems, Mounting and Unmounting File Systems.
* Resolving system errors and crashes, huge file sizes, file system full errors.
* Experience in Package management using RPM, YUM and UP2DATE in Red Hat Linux.
* Worked on Firewall implementation &Load balancer between various Windows servers.
* Ability to write Shell&Perl scripting and worked on Splunk for generating various metrics
* Excellent analytical, problem solving, communication and interpersonal skills.

**PROFESSIONAL EXPERIENCE**

**Client: USAID, Crystal City, Arlington VA (For DMI)**

**Duration: October 2016 – Till Date**

**Role: DevOps/Configuration Manager**

**Responsibilities:**

* Configured and administrated different App Services, Including Web Jobs and various instances of Databases in Microsoft Azure.
* Implemented new projects builds framework using Visual Studio IDE.
* Various configurations created of Traffic manager and Load Balancer in Azure.
* Creation of B2C as a multi-factor Authenticator for the DIS Application (including Facebook and LinkedIn)
* Created and maintained different independent environment using the App service environment for Dev, Test and UAT.
* Introduced different and independent branching and merging strategies for each environment so that more stable code could be deployed to Production.
* Created and Maintained different and independent Azure SQL Databases pointing towards each environment, making sure there were no cross-connections.
* Created Technical Documentation including the Build, Deploy and Release Documentation at end of every Sprint of work.
* Experience on networking aspects like IPs, subnets, inbound and outbound ports and firewall rules.
* Implement and maintain internal systems key to **DevOps** operations such as database servers, continuous integration, and QA/Test servers
* Resolving assigned remedy tickets and remedy tools in Development/QA/Staging/Production.

**Environment:**Microsoft Azure, VSTS using both Git and TFVC as the code repository, Azure SQL,

**Client: Social Solutions, Middle River, Maryland**

**Duration: August 2015 – Till Date**

**Role: Sr. DevOps Engineer**

**Responsibilities:**

* Installed, configured and Administrated of all **UNIX/LINUX** servers, includes the design and selection of relevant hardware to Support the installation/upgrades of **Red Hat (5/6), Centos 5/6, c** operating systems.
* Implementing new projects builds framework using Jenkins & maven as build framework tools
* Implementing a Continuous Delivery framework using Jenkins, Github, Docker, CHEF, Maven in Linux environment
* Provided development support for creating a website using Java, Groovy & Grails, framework utilizing agile methodology and MySQL database
* Responsible for managing the **Chef client nodes** and upload the cookbooks to chef-server from Workstation
* Installed and configured of hardware and OS (Redhat, SUSE ) on x86 servers and Solaris
* Used **Agile/scrum** Environment and used **Jenkins**, **GitHub** for **Continuous Integration** and **Deployment**
* **AWS** server provisioning using Chef Recipes
* created **ODI** interfaces for various source and target technologies.
* Configured **ODI** topology (Physical architecture, logical architecture, and context)
* Debugged **ODI** 12C log to edit code and restart the error session to start from where it failed
* Used **Perl, Python**,**Ruby**, **Bash, Powershell** to automate the tasks
* Detecting System Failure, Resource Failure and hardware failure on **SUSE** Linux platforms.
* Troubleshooting and analysis of hardware and software failures for **SUSE** Linux servers
* Experience in testing for the new features release.
* Experience in App / Web servers BEA Web logic and Tomcat 5.5.
* Automated the Wordpress and MySQL container deployment in **Docker** using **Python** and monitoring of these containers using uptime robot and **Nagios**
* Created **Docker** images from scratch and customized and modified base images from existing environment configurations and maintaining the image repo for development teams
* Lots of experience with Linux/UNIX systems and the best practices for deploying applications to those stacks
* Media based installs on several hundred **Cisco UCS B200 /B250** and BM Blade Centers as required for UAT/Production Oracle Web logic. Red hat JBoss, Oracle Enterprise Database and MySQL Database Server requirements.
* Installing and updating packages using YUM (custom YUM servers/repositories) and Red Hat Satellite Server.
* Configured and Administered **Apache, VSFTPD services, MYSQL** and **Tomcat.**
* Participating in 24x7 production on-call support of Linux and provided technical support to users.
* Implemented rapid provisioning and life cycle management for **Redhat LINUX** using kickstart
* Expertise in security hardening (iptables/selinux) major Production Servers, and compiling, building and installing web server based Linux tools.
* Experience in performing, uploading and upgrading new firmware on the Interconnects and Chassis
* In-depth knowledge of RHEL 5.x/6.x
* Experience migrating traditional data-center applications and databases into public clouds like AWS, Azure server, Rackspace etc.
* Experience in new builds in RHEL 5.x/6.x, Physical server and Virtual Server
* Implement and maintain internal systems key to **DevOps** operations such as database servers, continuous integration, and QA/Test servers
* Proficient in providing support on the deployed **Red Hat Enterprise Linux & Sun Solaris servers** from both operating system level and application Level.
* Created cloud service using **Microsoft Azure.** Managed Virtual machines and websites using Azure Monitoring Tools **Azure CLI.**
* Expertise in configuring **Red Hat Cluster Nodes** for any legacy applications and verified the daily health check on the Cluster Nodes utilizing clusters.
* Analyzed and resolved conflicts related to merging of source code for **SVN** and **GIT**
* Expertise in creating **VM Templates, cloning and managing Snapshots.**
* Troubleshooting performance or configuration issues with MySQL and Oracle.
* Designing and Implementing Cloud Orchestration Solution (AWS/Azure)
* Expertise in hardening, Linux Server and Compiling, Building and installing Apache Server from sources with minimum modules.
* Monitoring and troubleshoot backups and schedule Cron jobs.
* Experience in scripting using **BASH & PERL, Mail Server, Samba Server, Apache Server.**
* Worked on configuring **NIS, NFS, DNS, DHCP, FTP, FSTP, Telnet and RAID levels**.
* Experience in database replication using **OCFS2 file system** with **oracle 10g** and **11g database**
* Experience in deploying several sets of Linux guest builds from **VMware** templates using **PowerCLI**as well as **Red Hat Satellite Server.**
* Patch management of servers and maintaining server's environment in Development/QA/Staging/Production.
* Experienced in building private, public and community clouds for Oracle applications
* Resolving assigned remedy tickets and remedy tools in Development/QA/Staging/Production.

**Environment:**RHEL 5/6, Solaris 9,10&11, HPUX, .Net, Centos, Java,Maven,SUSE,AWS,Amazon, Cloud, SUSE 10, 11, VERITAS Volume Manager 3.x/ 4.x, VERITAS Storage Foundation 5, Redhat Cluster, VERITAS Cluster Server 4.1,Qlikview, Tripwire, NFS, DNS, SAN/NAS,ODI,puppet, Docker, Rundeck, chef, splunk,GIT, Vagrant.

**Client: Progressive Insurance, Mayfield Heights, Ohio Duration: July 2013 - July 2015**

**Role: Linux Admin / Devops Engineer**

**Responsibilities:**

* Worked on variety of Linux platforms **Red Hat Linux**,**Solaris** which includes installation, configuring and maintenance of applications on this environment.
* Works with **Symantec** and **BSC** team to setup the Symantec O3 IDLINK Open VPN Servers.
* Build servers using **Kick Start, Red Hat Satellite Server**, and **VSphere**Client.
* Implemented automations tools **puppet**, **splunk**,DevOps
* Extensively worked with **Version control Systems, CVS, SVS, GIT, Perforce**
* Migrated to Red hat satellite server 6 version.
* Implemented **Bash**, Perl,RubyPython, scripting.
* Creating and modifying the **manifest** as per the requirement on **puppet**
* Established Chef best practices approaches to systems deployment with tools such as **vagrant**
* Created cloud service using **Microsoft Azure.**Managed Virtual machines and websites using Azure Monitoring Tools **Azure CLI.**
* Designed and implemented tools and methodology to automate the provisioning of systems compliant with IBM Cloud security controls in Softlayer, Amazon and **Azure** cloud and hybrid environments
* Created complex process with ease to load complete legacy SQL Server database data to Oracle via **ODI** 12C.
* Created **ODI** packages for success and failure sessions with odisendmail alert
* Created **ODI** project variables (set, declare, refresh, and evaluate)
* Replicated the Jenkins build server to a test VM using Packer, Virtual Box, Vagrant, Chef.
* Wrote **Ruby** script to consume logs.
* Implemented Automate the Environment provisioning Using **Chef**& **Docker**.
* Tested reports and uploaded Tableau dashboards on to server and provided production support for **Tableau** users
* Application development using **Informatica** logic and Unix shell scripts codes
* Developed parameter and dimension based reports, drill-down reports, matrix reports, charts, and Tabular reports using **Tableau** Desktop
* Worked with **Docker** container snapshots, attaching to a running container, managing containers, directory structures and removing **Docker** images
* Parameterize all **Informatica** codes and create Autosys jobs to run through Autosys scheduler
* Provide support for customers in resolving technical issues with the design, deployment, and use of **Ansible**'s.
* Contribute to the **Ansible** Galaxy role-sharing service with roles, pull requests, and reviews.
* Contribute to the **Ansible** support knowledgebase.
* Developed scripts in **Ruby** to package log files and send them to a remote server
* Supporting 24/7 for all web-hosting applications ETL application and on Solaris and **SUSE** Linuxserver.
* Written complex expressions using Set analysis and various **QlikView/Qliksense** functions.
* Implemented Actions/Triggers in the **QlikView** interface.
* Handled the end-to-end implementation of **QlikView /Qliksense** dashboard deployment.
* Involved in Performance Tuning & Deployment of **QlikView** Applications.
* Implemented Clear Case and Subversion branching and merging operations for Java Source Code.
* Implemented code builds and automated deployment procedures.
* Written make, Maven and Ant build tools for application layer modules.
* Experience on Java Multi-Threading, Collection, Interfaces, Synchronization, and Exception Handling.
* Involved in building security model, VPC, Elastic IP for databases on Cloud platform
* Developed build and deployment scripts using **ANT** and **MAVEN** as build tools in Jenkins to move from one environment to other environments.
* Using Cloud Trail, TESSA, CloudPassage, CheckMarx, Qualys Scan tools for **AWS** security and scanning
* Designing architecture and deployment of www.Treasury.gov on the Amazon Cloud
* Updating patches to keep servers updated against bugs present in the operating system using **Red Hat Satellite** Server, yum, etc.
* Troubleshooting Web service Integrations by co ordination with 3rd Party
* Good Knowledge of Linux Operating and commands.
* Good Knowledge of Web logic Clustering.
* Worked exclusively on VMware virtual environment.
* Worked in infrastructure team on installation, configuration and administration of CentOS 5.x/6.x/7, Red Hat Linux 8/9, RHEL 5.x/6.x/7, Red Hat Satellite 6, Windows Server […] and SUSE Linux 10.x/11
* Experience with Java Enterprise Application Servers such as **IBM Web Sphere, Oracle Application Server (OC4J), BEA Web Logic, JBOSS,** and **Tomcat.**
* Experience in using VMware vMotion to move VM’s from One Datacenter to another datacenter.
* Involved in installation and configuration of various Third party software onto servers.
* Installed, configured and provided support for Tivoli Monitoring software across various OS platforms like **RHEL**, **AIX** and **Solaris**.
* Installed packages using YUM and Red hat Package Manager (RPM) on various servers.
* Troubleshooting network administration, **IIS configuration**, **DNS setup** and modifications, firewall rule sets, local and **distributed director**, connectivity, and supporting applications.
* Performed the daily system administration tasks like managing system resources and end users support operations and security.
* Responsible for independent support of Tier 2 issues: reboots, **start/stop services, reset Terminal Service** and pc anywhere connections, and administrative server maintenance. Daily follow up with clients to ensure resolution of all issues.
* Provide support to Account Managers, UNIX and Windows technicians, and other departments.
* Involved in **ILMT Agent Deployments** and **Oracle/SQL** Upgrade project which includes various UNIX builds of different OS platforms across various data centers.
* Used **Logical Volume** Manager for the management of Volumes including creation of physical and logical volumes on Linux.
* Coordinated with various cross functional teams across IT operations to make sure smooth functioning of projects.
* Worked closely with DBA Team in order to adjust kernel parameters as per requirements.
* Day to day resolution on Linux based issued though **SMS ticketing** system in compliance to **SLA cycles**.
* Performed application installation and management on IBM AIX and Linux servers for applications like Web Sphere Application Server (WAS) 7, JBoss 4.2.x, 5.x, Sun JES Web Server 6.1, Oracle 10g, Sybase 12.5 etc.
* Automating many day to day tasks through Bash scripting.

**Environment:** Red hat Enterprise Linux 4.x/5.x/6.1, AIX 6.x, Solaris 8/ 9/10, GIT, Tivoli Storage Manager, Java, .NetMaven, Docker,Vagrant,AWS,Qlikview,VMware ESX5,ODI, Tivoli Net backup, and Web sphere. Windows 2012 servers, Windows 2008, IIS 7.0 & 7.5.

**Client: N-Cell, Kathmandu, Nepal**

**Duration: May 2011 – April 2013**

**Role: DevOps/Configuration Consultant**

**Responsibilities:**

* Supported **Solaris/Linux** servers in production / stage / development environment.
* Used splunk to monitoring/metric collection for applications in a cloud based environment.
* Deployed **Puppet, Puppet Dashboard, and Puppet DB** for configuration management to existing infrastructure.
* Used **Python** and **Perl** as scripting language
* Involved in managing Cloud platforms such as **AWS**
* Converted and automated builds using **Maven** and **Ant**. Scheduled automated nightly builds using **Jenkins**
* Configure and administrate database cluster using **VERITAS cluster.**
* VERITAS Volume Manager **3.x/4.x** and **Solstice Disk suite (SVM) RAID configuration**, troubleshooting, maintenance, disk management & space allocation etc.
* Migrated **Sun** Server (Around 1000) and **HP** Servers (Around 300) Lift and Shift from Old Data Center to New Data Center on a Weekly Basis.
* Installation Configuration troubleshooting & maintenance of VERITAS cluster.
* **Solaris** **7, 8 & 9, 10** OS configuration, performance tuning, patching and maintenance.
* **Sun** Servers Hardware, **OBP** configuration & troubleshooting
* **REDHAT Enterprise Linux 3, 4** Installation on various servers using Kick start and configuration & support for various applications run on Linux environment.
* Performed Mechanization **Puppet and Chef.**
* Utilized **Ansible**, **Puppet**, **Git** and **Rundeck** to install and confgure Linux environments with successful production deployment.
* Exclusively done **Oracle Migration** from 4 Node Cluster to 4 Cluster and also 6 Node to 2 Node.
* Performed **SRT** testing before bring the Cluster into the Production.
* Migrated VERITAS Disk Groups using Deport and Import Techniques.
* Day to day duties for **UNIX/Linux** server Maintenance and Support to developer's team for their issues with application, tuning, troubleshooting, software running on UNIX/Linux Servers.
* Disaster Recovery operation setup & checkup at contracting facility
* Performed e in installing, configuring and trouble-Shooting web servers like IBM **HTTP Web Server**, **Apache Web Server**,**Web sphere Application Servers, and Samba Server** on Linux (Redhat&CentOS)**.**
* Automation scripts for weekly and monthly backups in **Perl and shell**
* UNIX Server monitoring for maximum availability using BMC patrol and other monitoring tools and taking steps to keep servers up and running under 24x7 environment for maximum uptime.
* **24x7 support** for the UNIX servers. Rotating on call pager responsibilities for Production environment.

**Environment**: Solaris 8/9 with NFS and NIS, Linux RHEL 3,4, Java, .Net, Sun Ultra Sparc60,SunE220, E250, E450,E3500, E4500, VMware, Solstice Disk Suites, Volume Manager (VxVm) 4.1,Veritas Cluster server (VCS), VMware.

**Client: Nepal Telecom, Kathmandu, Nepal Duration: November 2009 – May 2011**

**Role: Unix/Linux Admin**

**Responsibilities:**

* Supported **Solaris/Linux** servers in production/QA/ Development Environment, including **Solaris** Zone and RHEL VM's.
* Created several **cookbooks, recipes** using Ruby as scripting language
* Involving in installing **chefnode, workstation and server**
* Installed and Configured **Solaris** zones: whole, sparse, branded on **Sun** Hw (x4140,x4170,T5240.T3-1,T3-2)
* Installed **ESXi 4.1** Hypervisor on HP Servers.
* Installing, configuring and maintaining **apache, samba,** **Web Sphere& Web Logic Application Servers and Nagois**
* Worked on **VMware, VMware View, vSphere 4.0**. Dealt with ESX, ESXi servers.
* Enhanced and simplified vCenter server 4.0.
* Installation of systems using **Jumpstart** for Sun Servers and **Kickstart**for **RHEL** on HP Hw.
* Configure, support and perform routine maintenance of hardware and software for Linux and **Solaris** servers.
* Involved in Hardware and software evaluation, recommendation and vendor management.
* Resolved config issues and problems related to **OS, NFS mounts, LDAP** user ids DNS and issues.
* Experience in creation and maintenance of **ZFS** file systems / set quotas.
* Regularly applying patches for **Redhat Linux**, **Sun** and HP systems.
* Develop **Unix Shell scripts** for regular and periodic jobs and also for sysadmin jobs.
* Extensively worked with Business, Application, Database, Network and SAN Team for project requirement.
* Manage and co-ordinate **Unix and Linux administration** tasks
* Ensure Data Center operation meets required **service levels**
* **24x7 support** for the UNIX servers. Rotating on call pager responsibilities for Production environment.

**Environment**:  Solaris 9& 10, RHEL 4.X,5.x: Sun Ultra Sparc T5220,T5240, T3-1,2,M5000,X4140,x4170; HP DL360, 380 & 580; VMware, Solstice Disk Suites, ZFS; Volume Manager (VxVm) 4.1, Veritas Cluster server (VCS), VMware.

**Client: Bharatpur Animals and Birds Farm, Bharatpur, Nepal Duration: June 2006-Oct 2009**

**Role: Linux Admin**

**Responsibilities:**

* Managing **UNIX Infrastructure** and **EMC storage** involving maintenance of the servers and troubleshooting problems in the environment.
* Installing operating systems **Solaris, Linux** and **HP** according to business requirements.
* Trouble shooting the issues ranging from **Solaris**, **Linux** and **SAN** environments.
* Created and Maintained **Solaris** **10 zones/containers.**
* Experience in creation and maintenance of **ZFS** file systems.
* Regularly applying patches both for **SUN** and Linux systems.
* Installed and Configured **Jumpstart and Kickstart Server.**
* Working with **VERITAS Volume Manager** for creating volumes and file systems for various applications and databases.
* Experience with Java Enterprise Application Servers such as **IBM Web Sphere, Oracle Application Server (OC4J), BEA Web Logic, JBOSS,** and **Tomcat.**
* Creating and maintenance of Virtual machines in **VMware ESX.**
* Worked on different VMware products like **VMware workstation, GSX/VMware server, VMware player, VMware Converter** and **ESX server 3.X.**
* Installed **Web Logic 8.1** with **SP5 Server** and configured domains, **Admin** and managed servers for Applications to be deployed.
* Configured, Installed **LDAP** **Solaris** and Linux server.
* Connecting to **ESX** server by using **VIC, putty and Web access.**
* Installed and configured Send mail on **Solaris** Linux and **AIX servers.**
* Experience in working with **Hitachi Storage navigator.**
* Migrated central send mail server to Postfix and Installed and Migrated SAP from Linux to **Sun** servers.
* Involved in SAN migration project to migrate the data across the storage arrays.
* Established end-to-end software development process using shell on top of BO, including automated builds of Rhapsody models.
* Implemented security policy and managed **firewalls/IDS**. Managed **DNS, send mail, IP space, and co-location facility transition.**
* Providing **24/7** on-call support on rotation basis.
* Assembled, Replaced and Handled  **Sun**, Linux and AIX Hardware problems in Data Center.
* Developed **Korn and Bash** shell-scripts to automate routine activities
* Installation and Configuration of Windows Active directory server 2000 and citrix servers. Administration of applications via Citrix MetaFrame.

**Environment:** SUN E10K, M4000/M500, E4500/5000, E35000, Hitachi 9980v. Solaris 8/9/10, RHEL 3/4, ESX 3. solstice disk suite (SDS),SUN UCE, Jboss, Veritas Volume Manager (VxVm),VMware, Veritas Cluster server (VCS).

**EDUCATION**

**BS Degree in Information Technology from Pokhara University, Kathmandu, Nepal.**