# Pradeep

# DevOps/SRE Engineer

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**PROFESSIONAL OBJECTIVE:**

A dynamic and self – motivated **DevOps Engineer**. I Aspire for a bright and challenging career in the field of Information Technology, where I can utilize my skills and knowledge to contribute to the growth of the company while also upgrading myself with emerging trends and technologies.

**EXPERIENCE SUMMARY:**

* Over 16 years of experience in Building, Installation, Administration, system monitoring, performance tuning, troubleshooting, maintenance of **Unix operating systems**, **24/7**

# on-call.

* Hands on experience working primarily with **Google cloud platform, Amazon AWS and Azure**
* Provisioning cloud infrastructure using **Terraform**
* Automation using **Ansible**
* Experience setting up open-source monitoring tools like **Prometheus**, **Grafana** and **InfluxDB**
* Install and setup **Mimir** to scale Prometheus
* Microservices administration experience in Kubernetes
* **ELK stack (elastic search)** installation and configuration experience.
* **Helm** package manager experience
* **Istio** experience for better routing and visibility
* Experience in monitoring of microservices using Prometheus and **Datadog**
* Helped Evernote move from physical datacenter to Google Cloud and also helped in decomposing monolith in to microservices on google **kubernetes** Engine (GKE).
* Installed **istio service mesh/istio multi cluster** for better visibility, availability and telemetry.
* Configured **SLO, SLI and SLAs dashboards** for microservices and monoliths and also did set up monitoring and alerting using **prometheus, datadog, Nagios, Pingdom, Thousandeyes, Splunk, BigQuery**
* Wrote automation scripts using **Bash shell, python**. Extensively used **Automation Tools like Ansible, Salt**, **Puppet and Terraform**
* Did set up **Jenkins build pipelines** to deploy to various environments such as dev, stage and production.
* Proficient in verion control tools such as **GIT, SVN** and also Installed and configured source code repositories such as **Bitbucket and github**
* **Django programming experience** - Worked on views, models, etc and **postgresql database**
* Experience on **Cloud based Big data solution** implementations and architecture with **Cloudera and** Strong **Hadoop Administration** skills**.**
* Excellent knowledge on **Oracle Database Administration, Mysql** and troubleshooting.

# Administered WebSphere application servers, Apache-Tomcat, Nginix, CA Siteminder.

* Strong **Network administration** skills - TCP/IP, HTTP, SSH, SSL, DNS etc

**PROFESSIONAL EXPERIENCE:**

# RADAR, DFW. May 2022 to Till Date

**DevOps Engineer**

* Implemented **ELK Stack (Elastic Search)** for comprehensive logging to enhance system observability and support data-driven decision-making within Radar’s tech ecosystem.
* Configured and managed **Prometheus** and **Grafana** for real-time monitoring, creating dashboards that deliver actionable insights into system performance, directly impacting operational efficiency.
* Utilized **InfluxDB** for efficient time-series data storage, optimizing data retrieval and visualization processes, thus enhancing data handling capabilities.
* Integrated Elasticsearch with existing applications to facilitate complex data queries, improving the speed and efficiency of data retrieval operations.
* Developed custom **Logstash** pipelines to parse, filter, and transform logs, ensuring data consistency and accessibility, contributing to system integrity.
* Automated continuous integration and continuous deployment pipelines using **Jenkins**, significantly reducing deployment times and minimizing human error across development operations.
* Conducted regular system audits to optimize **Jenkins CI/CD** processes, improving efficiency and team productivity, thereby boosting overall operational effectiveness.
* Monitored application performance metrics using **Grafana dashboards**, enabling quick identification and resolution of potential issues, thus maintaining high application uptime.
* Installed and utilized **Grafana Mimir** to scale Prometheus, employing GCP buckets as backends for scalable and efficient metric storage.
* Gained experience writing **Python** scripts to call various APIs, analyze the results, import them into InfluxDB, and set up alerts, enhancing operational monitoring.
* Experienced in setting up **Kubernetes** clusters in **GCP** and running Prometheus, Grafana, and Mimir within the cluster to ensure robust application monitoring.
* Utilized **Helm** to deploy key monitoring components, ensuring efficient management and scalability of monitoring infrastructure.
* Employed **Terraform** to set up an Elasticsearch cluster and used **Ansible** for configuration management, optimizing search and analytics capabilities.
* Created various dashboards in Grafana to monitor uptime, latency, error rates, and saturation, providing a comprehensive view of system health and performance.
* Established **alerts** for all critical metrics, ensuring prompt response to potential system issues and maintaining system performance standards.
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* Version controlled all the Grafana Dashboards and implemented CI/CD process to create the dashboards.
* Setup and configured GCP load balancers, configured routing rules and SSL.
* Solved several security vulnerabilities in the infrastructure for SOC compliance.
* Supported 24/7 on call and supported NOC teams

# Evernote, CA. May 2017 to April 2022 Date DevOps Engineer

* Wrote **Ansible playbooks** for production deployments and release process
* Wrote **Terraform** code for infrastructure provision in google cloud platform and also to provision Datadog monitors, SLO/SLA dashboards
* Provided configuration management and systems automation at scale using

**Puppet**

* conducted **production readiness reviews** with the product development teams ensuring proper monitoring, SLOs, errors budgets are set up before releasing the microservices to production.
* Defined **SLOs/SLIs** for microservices environments, making improvements to the system to maintain the error budgets.
* Managed **SSL certificates** throughout Evernote organization which includes, generate, renewal, installation and expiry monitoring using **Datadog Synthetics** monitoring and scripting.
* Automated various tasks using **shell scripting** and **Python**.
* Ensured proper security, monitoring, alerting and reporting for the infrastructure using **Datadog, Splunk, Nagios, prometheus, Thousand eyes, pingdom.**
* Provisioned **Google Kubernetes Engine (GKE) clusters** - configured networking,

DNS, config maps, secrets, **RBAC**

* Wrote **helm templates** and deployed helm charts to microservices.
* **Istio service mesh** setup for kubernetes for efficient networking, application

independence from network and better monitoring the cluster with istio metrics, telemetry

* **istio multicluster** setup for redundancy, high availability.
* Jenkins setup for the Kubernetes and monolith builds and deployments to support

**CI/CD pipelines**

* Extensive Google cloud platform experience - **VPC sharing, VPC peering, GCS, Load balancers, compute engine, SSL certificates, IAP (Identity aware proxy), pub/sub, BigQuery, dataproc** and more
* Used **Akamai to** configured routing rules, block attacks etc
* **Splunk and Big Query administration**
* Used **Monit** for managing and monitoring processes, programs, files, directories and filesystems on a Unix system
* **Sophos** email filtering for security risk assessment for incoming emails.
* **Shell, python** scripting to automate routine infrastructure tasks.
* **Debian** VM upgrades
* Production support **24/7 on call shifts**
* Tomcat, Apache, mysql, haproxy experience
* SSL certificate renewals, maintenance, alerting. Used **Digicert, Godaddy**
* DNS set up using local zone files as well as public DNS with **cloudflare, Dnsmadeeasy, DYN (Oracle)**
* External service monitoring tools experience - **pingdom and thousandeyes**
* **GIT, bitbucket, github** experience

# Apple, Sunnyvale, CA. Jan 2016 to May 2017 DevOps Engineer

* Implemented Cloud based Big data solution and architecture with **Cloudera** professional experience working with Hadoop (HDFS & MapReduce) and related technology stack.
* A deep understanding of Hadoop design principals, cluster connectivity, security and the factors that affect distributed system performance.
* configured flume - source, channel and sink.
* Experience with remote monitoring and event handling using icinga.
* Provisioning of new Hive/Impala databases.
* Provisioning of new folders within HDFS
* Setting up and validating Disaster Recovery replication of data from Production cluster
* Kerberized Hadoop – setting up kerberos, creating kerberos principals and kerberising various hadoop or cloudera services.
* Scheduling Oozie jobs and deployments.
* Administered and managed the hadoop linux server hardware and operating system
* Working on Cloud Technologies - **Amazon Web Services**.
* Configured **Azure DR site recover** and did set up **kusto query** alerts

# CA Technologies, Santa Clara, CA. Apr 2013 to Nov 2015 DevOps Engineer

* Linux Systems Administration, virtual server maintenance, troubleshooting and creation.
* Analyzed multiple configuration management tools (ansible, puppet, cfengine) and became sole implementer for ansible.
* Demonstrated proficiency with implementing and managing **AWS services via AWS Console or CLI of AWS accounts, IAM users, IAM roles, VPCs, load balancers.**
* Building and maintaining AWS infrastructure and services - **Lambda, API Gateway, IAM, Cognito, S3, VPC, Route53, CloudFront, CloudWatch and KMS**
* Extensive participation in successful builds deployment and maintenance for **java**

applications on Tomcat servers.

* Developed automation scripting in Python (core) using Ansible to deploy and manage **Java** applications across Linux servers.
* used python to automate deployments and OS upgrades.

# Bank of America, Jacksonville, FL Mar 2010 to Mar 2013 WebSphere Administrator

* Managed and Administered **WebSphere 8 and WebLogic 10.3** Environments.
* Responsible for installation, configuration and maintenance of J2EE applications on **Websphere Application Server, Tomcat, IBM HTTP Server** in a multi clustered high availability environments
* Developed many **JACL, Jython, Perl, WSCP scripts and shell scripts** to automate the maintenance process of the WebSphere and recovered the backed up WebSphere configuration using XMLConfig tool.
* Responsible for creating and deploying builds on various WebSphere environments, testing in build environment and release to test team on scheduled time.
* Configured SSL for IBM Http Server using Ikeyman utility provided with the Http Server.
* Created J2C authentication data entries for configured data source to test database connection from WebSphere administrative console.
* Involved in Installation and Configuration of **SiteMinder**
* Support Lead developers with Configuration Management issues
* Generating weekly reports and sharing with the Management about escalating tickets as per Project SLA’S, SLA Compliance, Ticket Volume and Escalation trends. And escalating tickets as per Project SLA’S.
* Responsible for the implementation, troubleshooting, and maintaining operations of network systems.
* Maintaining, monitoring and troubleshooting disk space, volumes, Https, site down, Load Average, free memory, CPU Usage, Processes etc. Alerts generated in monitoring tools.

# Symantec Corporation, MountainView, CA May 2008 - Jul 2009 Principal IT Infrastructure Specialist

* Supported Symantec Anti Virus software components on **Windows servers.**
* Automated daily tasks using windows power shell.
* 24/7 oncall rotation
* Configured **Nagios** alerts for the infrastructure.
* **SSL** certificate management
* Responsible for assisting Lead Engineer in areas of design, configuration and implementation.
* Maintaining, monitoring and troubleshooting disk space, volumes, Https, site down, Load Average, free memory, Processes etc. Alerts generated in monitoring tools etc.
* Creating Change Request in case of any changes/maintenance activity for the Existing Network.

**ACADEMIC QUALIFICATION:**

Bachelors in Computer Science and Information Technology