**Leela Girish S**

 

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**Professional Summary**

* Dynamic IT professional with over 7 years of industry experience in **Cloud** Infrastructure like Amazon Web services (AWS), Google cloud (GCP) and Microsoft Azure services. Working on Agile DevOps life cycle such as on **Build** and **Release** **Management**, **Configuration** **Management**, **Continuous** **Integration, Continuous Deployment, Linux Administration** with Various tools.
* In depth understanding of the principles and best practices of Software development Life cycle (**SDLC**), software configuration management (**SCM**) in **Agile**, **Scrum, Kanban,** and **Waterfall** methodologies.
* Experienced in working on Amazon Web Services like **IAM, VPC, EC2, RDS, S3, AWS CLI, Route 53, SNS, AWS SQS, AWS Lambda, Elastic Load Balancing, Elastic Beanstalk, Elastic Cache, Amazon RedShift, Auto Scaling, CloudWatch, Cloud Front, CloudFormation, Dynamo DB** and **AWS Ops Works.**
* Experience in creating and **launching EC2** instances using **AMI's** of Linux, Ubuntu, RHEL, and Windows and wrote shell scripts to bootstrap instance. Ensured **data integrity** and **data security** on AWS technology.
* Hands-on experience using **AWS Code Deploy** for migrating application code and AWS snowball for migration of web applications from on- premise to AWS cloud platform with environment specific to the application.
* Experience in developing **AWS lambda functions** to automatically scale applications by running code in response to each event and trigger them individually to scale precisely with incoming traffic.
* Experience in **Azure Cloud Services** (PaaS & IaaS),Azure (**VSTS, TFS**), **VMs, Vnets, Azure Roles, App service, Azure Storage**, **Azure AD Licenses**, Caching, Azure SQL, NoSQL, Visual Studio Online (**VSO**), **OMS**, **Key** **Vault,** Network services, **Active Directory (AD)**, **API** Management, Cosmos DB, **Azure Auto Scaling**, Azure PowerShell Automation. Migrated on-premises to Azure ADR environment.
* Created Pipelines in **ADF (Azure data factory)** using Linked Services/Datasets/Pipeline/ to Extract, Transform, and load data from different sources like **Azure SQL**, Blob storage, Azure SQL Data warehouse, write-back tool and backwards.
* Experience in **Google cloud platform (GCP)** services like Compute engine, Cloud storage**, Cloud SQL** , Big Query**, GCS bucket**, G-cloud function, cloud dataflow, Pub/sub cloud shell, **GSUTIL**, BQ command line utilities, Data Proc, Stack driver, Sqoop and PySpark.
* Experience in designing Infrastructure as a code with **Terraform templates**, modules and deploying it using cloud deployment manager to spin up resources like virtual cloud networks, compute engine in subnets.
* Developed **Cloud Formation** scripts in **YAML** and **JSON** to automate entire **CI/CD pipeline** and maintain **autoscaling AWS stacks.**
* Experienced in authoring **pom.xml** files, performing releases with the **Maven** release plug-in and managing Maven repositories.
* Worked on Build tools like **Ant, Maven,** andautomation tools like **Jenkins, Hudson** to automate build triggers, scheduling Jenkins pipeline jobs, **SCM polling** and **Crontab jobs**, and involved in Repository Management tools like **Artifactory**.
* Build **Jenkins pipelines** integrating with version control tools like **Git/Bitbucket** with **Groovy** scripts for triggering builds and Crons.
* Developed **Docker containers** with docker images created by **Docker file** and utilized **Volume** concept to copy data from host. Stored Docker images in **Docker registry** for reusing them in future deployments.
* Experienced in installing and working with **Docker containerization** techniques to run different software packages on the containers to improve Continuous Delivery framework.
* Launched **Kubernetes** to provide a platform for automating deployment, scaling and operations of application containers, and configure web servers and required files in containers across clusters of hosts.
* Managed **Kubernetes**charts using Helm. Created reproducible builds of the **Kubernetes**applications and managed Kubernetes manifest files and releases of **Helm packages**.
* Worked with source code and version control management tools like **Subversion** and **GIT** and used Source code management client tools like SVN, Bitbucket, Git Bash, GitHub Desktop, GitLab and Git GUI.
* Experienced in setting up installation, configuration and security of **Jenkins, Harness, bamboo,** and **team city** for integrated automation of build and deployments.
* Extensively worked on **Jenkins** for Continuous Integration and Continuous Deployment methodologies for End to End automation for all build and deployments and integrated **SonarQube** for Code coverage.
* Used configuration management tools like **CHEF, Ansible** and **Puppet** in managing system configs. supporting large Environments.
* Experience in using **Ansible Tower**, writing **Ansible playbooks** to automate the build and deployment process on servers using **SSH**.
* Expertise in creating Domain names (**DNS**) for IP routes, Email Routing, **FTP**, secure **HTTP/HTTPS** and Secure SSH connections.
* Experienced in troubleshooting, Configuring, and deploying various enterprise applications in **WebLogic**, **WebSphere**, and **Tomcat**.
* Monitored **EC2** instances and several **AWS** services using **Nagios** and log monitoring tools like **Splunk**.
* Expertise in setting up **Splunk** to capture and analyse data from various layers Load Balancers, Webservers.
* Experience with ESM and monitoring tools such as **AppDynamics**, **Splunk,** & **Dynatrace APM** for monitoring and reporting.
* Hands on Experience with multiples databases like Oracle, **MongoDB**, MS SQL, NO SQL and worked with different states of **Enterprise data warehouses** like Offline, Realtime, and Integrated data warehouses.
* Worked Extensively on Messaging Queue tools like **RabbitMQ** and **Kafka** for real time streams and alerts.
* Expertise in setting up **JIRA** as defect tracking system and configuring various workflows, customizations like severity levels & priorities, and plugins for the JIRA bug/issue tracker.
* Knowledge in writing **Shell, Python,** and **bash** scripting throughout the DevOps Continuous integration- continuous deployment **(CI/CD)** Life cycle and worked in teams with **.Net**, **Java** and **JavaScript** for backend and front-end UI development.

**Certifications**

* AWS Certified Sys-Ops Administrator – Amazon Web Services.

**Technical Skills**

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| **Infrastructure as a Service** | AWS, Azure, Google Cloud Platform |
| **Containerization Tools** | Docker, Kubernetes, Docker Swarm |
| **Configuration Management Tools** | CHEF, Ansible, Puppet |
| **Build Tools** | Maven, ANT |
| **AWS Cloud Services** | EC2, VPC, S3, Route53, SNS, IAM, Cloud Front, EBS, ELB, ECS, Cloud Watch, Auto Scaling, SQS, Elastic Beanstalk |
| **Monitoring Tools** | Nagios, Splunk |
| **Scripts/ Languages** | UNIX, HTML, Shell Scripting, Ruby, YAML, Python, Java, Perl, .Net |
| **Databases** | Oracle, MongoDB, SQL Server, MS SQL, NOSQL |
| **SCM/Version Control Tools** | GIT, GitHub, SVN, Bitbucket |
| **Automation Container** | Docker, Kubernetes |
| **Continuous Integration Tools** | Jenkins, Bamboo, TeamCity, Harness |
| **SDLC** | Agile, Scrum |
| **Bug Tracking Tools** | JIRA, Remedy |
| **Operating System** | UNIX, Linux (Ubuntu, Debian, RHEL, Centos), Windows |

**Professional Experience**

 **KLA, Milpitas, CA**

**Sr Cloud DevOps Engineer Sep 2020 – Present**

**Description:** KLA works globally with diversified electronics and software services in semiconductor manufacturing ecosystem. I worked with Terraform templates, Azure and AWS services, for migration of Web applications from on-premise to Cloud environment. As a Senior DevOps engineer, I am responsible for migrating web applications and making them available in all regions and AZs of KLA.

**Responsibilities:**

* Migrated on-premise storage to Windows Azure using **Azure Site Recovery (**ASR**)** and Azure backups, migrated virtual environments **VMWare** to Azure cloud using **ASR** and **Azure Migrate** service to migrate servers**.**
* **Virtual machines (VMs)** are created using Terraform templates, Virtual private Networks (**VPN**) tunnel was created using **Azure express route** to migrate Legacy windows servers to Azure Infrastructure as a service (Iaas).
* Designed Azure Infrastructure **Azure Web Roles**, Worker Roles, **Azure SQL, NoSQL**, Azure Storage, **Azure AD Licenses**. Virtual Machine Backup and Recover from a Recovery Services Vault using **Azure PowerShell** and Portal.
* Managed **Azure ecosystem** and executed pilot migration of Dev/Test workloads via lift & shift to Azure using **Azure Site Recovery**.
* Deployed **Azure IaaS** virtual machines (VMs) and Cloud services (**PaaS** role instances) into secure **VNets** and subnets with Azure autoscaling and Application programming Interface (**API)** management (REST APIs).
* Experienced in deploying **Azure Kubernetes service clusters (AKS)** using **Azure portal** to run multi-container applications and monitored the health of the clusters and pods.
* Integrated **Azure Log Analytics** with Azure VMs, **Azure Monitor** for monitoring the log files, store, and track metrics.
* Designed and Configured **Azure Vnets, Azure Dashboards, Azure Active Directory, Azure DevOps agents (ADO), ADFS, Azure container registry,** Azure Active Directory Domain Service**, DHCP** address blocks**, DNS, SSO, MFA** and security policies.
* Configured and deployed **Azure Automation Scripts**, Azure resource management (**ARM**) templates, utilizing **Azure stack** Services.
* Built and Maintained business web applications that controls end to end KLA consumer site product test data, billing and quotes related data in **AWS cloud platform** in clusters via **Terraform/Cloud formation** with **helm packages** for application environments.
* Migrated process specific Product support applications into AWS using AWS snowball with individual product environment.
* Configured AWS services like **EC2 instances**, **S3 buckets, RDS, ELBs, Glacier, Route 53** for procuring and routing data and created security groups, **NACLs**, **NAT gateways** for security and used **AWS inspector**, **WAF** for maintaining firewalls.
* Used **RDS** to control and push data into central data warehouse, **Amazon RedShift** for data analytics conducted by analytics team.
* Managed and configured Cross-Account deployments using **AWS Code Pipeline**, **Code Build** and **Code Deploy** for migrating application code by creating Cross-Account Policies & **Roles** on **IAM**.
* Architected and Configured **Elastic Load Balancers (ELB)**, Routes, Internet Gateways**, EC2 Auto Scaling groups** and **OpsWorks**. Maintained volumes & mapping with multi AZ VPC instances
* Developed **AWS Lambda functions** to run code without provisioning servers/ serverless (code given in zip file) and to trigger scaling by creating workload-aware cluster scaling logic within the cloud.
* Deployed and **Configured ELK stack (Elastic search, Kibana** and **Logstash)** for log analytics and log management within EC2/ELB to monitor server logs, application logs and **click streams**.
* Created **reusable Terraform modules** in both Azure and AWS cloud environments and developed new plugins, **Infrastructure as a code**, Resource graphs to support change automation.
* Designed Terraform templates to create **custom sized VPC**, **subnets**, **NAT** and wrapped in **Terragrunt** and managed the back-end state in S3 Bucket.
* Deployed **Kubernetes Cluster** on **Azure cloud** with **master/minion architecture** and wrote YAML files to create **pods**, deployments, load balancers, labels, **health checks**.
* Worked on Kubernetes to manage **containerized applications** using its nodes, ConfigMaps, selector services, and deployed **application containers as Pods**.
* Integrated **Jenkins** with **Docker** container using **Cloud bees Docker**, Kubernetes pipeline plugin and provisioned the EC2 using Amazon EC2 plugins. **Docker container Orchestration** with **Kubernetes**
* Extensively used Docker Hub, **Docker-compose**, **Docker file**, created **bootfs (file system) docker Images** from **docker registry** primarily for middleware installations & domain configurations. **Docker for virtualization**, run, ship, and deploy the application securely for fasten the build/release engineering.
* Configured **Jenkins masters and slaves** on multiple machines and Integrated **Git, Bitbucket** with **Jenkins pipelines** to automate builds using **triggers** such as pull requests, tags and commits.
* Automated Jenkins build forge for Continuous Integration and deployment into **Tomcat Application Server** and maintained **JFrog Artifactory** to store binary **JAR, VAR files**.
* Automated the **Build Infrastructure** for deploying services in dockerized environment using Jenkins, **SonarQube** for **Code coverage**, **Code** **analysis**, Gradle, Groovy, Job DSL, Docker and **Splunk.**
* Deployed Jenkins/Plugins for GIT Repository and Setup **Crontab**, **SCM Polling** for Immediate build with Maven.
* Wrote **Ansible Playbooks** and ansible **ad-hoc commands** to configure AWS instances that are connected through SSH and Automated the provisioning of Tomcat & Apache instances with Ansible Roles.
* Wrote an Ansible roles to deploy an **Elastic Beanstalk application** and to deploy Datadog agent on group of hosts.
* Implemented Ansible Tower for complex network deployments by adding control and triggered Ansible playbooks from the **Terraform instance.tf file** as a local-exec call. Wrote Ansible Playbooks using Python **SSH** as Wrapper for Managing Configurations of my servers, Nodes, Test Playbooks on Azure instances using Python.
* Designed and Implemented automation process for build and deployment of various .**net** & **Java** based applications using various tools involving **Jenkins, Git, Maven** for development of build artifacts on the source code by developing **POM.xml** file from scratch to control **dependencies** for both **parent and child nodes**.
* Managed the source code with Bitbucket, Git, GitHub version control tools for branching, Merging, check-ins, adds, commits, push, pulls and to update and label developers code and snapshots with checksum **commitIDs**. Automated deployment from **GitLab-ci** to **OpenShift** and Created gitlab-ci.yml file to run builds in stages in docker containers.
* Ensured the security of Web applications by generating **SSL certificates** and accessed them securely.
* Unix SHELL scripts using **Awk, Perl,** and Se filters to perform **Oracle RDBMS** functions to bulk load data, provide. Worked with command line tool **Node package manager (NPM)** to install, uninstall Node JS packages in application.
* Configured **Splunk** in **cluster environment** to capture and analyze data metrics from various layers Load Balancers, Webservers for fixing patches. Set up **Instana** for individual microservices.
* Used **AppDynamics** for Business and Application monitoring by deploying **AppDynamics agents** throughout the environment for complete view of application topology and through **AppDynamics controller**, performance baseline is monitored.
* Performed test case execution using JAMA and documenting defects using **JIRA** bug tracking tool.

**Environments:** AWS, Azure, Git, Maven, Jenkins, SonarQube, Nexus, Docker, Kubernetes, Ansible, ELK, Lambda, Terraform, GitHub, Jira, Blue Green deployment, Apache, Oracle, Tomcat, EC2, ELB.

**Verizon, Irvine, CA**

**DevOps Engineer Oct 2019 – Aug 2020**

**Description:** Verizon is amongst Industry leaders in the US in Wireless Network Operators providing 5G technology. I worked with 60- 70 cloud services to secure Billing and Payment service build on Cloud infrastructure with real time alert system. As DevOps engineer, I am responsible in provisioning the cloud infrastructure with Cloud formation templates to maintain and manage the billing and payments process.

**Responsibilities:**

* Configured and managed various **AWS cloud IaaS** Services including **EC2 instance** creations using **AMIs** (Machine Images) in a **VPC, RDS, S3 buckets, Glacier, Cloud Watch, Cloud trail, Cloud Front, SQS, SNS,** and **Route 53**.
* Configured **IAM roles** for EC2 instances with **subnets** & assigned **policies** granting specific access levels to **S3 buckets** in various regions for archival data and used AWS cloud formation templates for **high availability** and **disaster recovery**. Migrated legacy applications and underlined platforms from data centers to AWS cloud. Used **Stack Driver** and **AWS** cloud watch to monitor and debug instances within the infrastructure.
* Worked in Billing and payments team to set up live alert systems with messaging queue tools like **Kafka**, providing **streams API** for real time & **Connectors API** for easy integration within **AWS cloud environment**.
* Developed **AWS** Virtual Private Cloud (**VPC**) with advanced security features including security groups Network access control lists **(NACLs)**, **NAT gateways** to enable inbound and outbound filtering.
* Implemented **AWS Lambda functions** to run scripts in response to event in **Amazon Dynamo DB table**, copying files in between S3 buckets or to **HTTP** requests using Amazon **API Gateway**.
* Infrastructure is built on **GCP** using services like **cloud Engine**, Cloud Load Balancing, cloud storage and cloud deployment manager to migrate on Premise files into web servers.
* Experience in GCP, Big Query, **GCS bucket**, G-cloud function, cloud dataflow, **Pub/sub cloud shell**, GSUTIL, BQ command line utilities, Data Proc, **Stack driver**, Sqoop and PySpark.
* Developed g-cloud function with Python to load bound and unbound Data from google pub/sub to Big query for on arrival csv files in GCS bucket.
* Worked on Google Kubernetes Engine (**GKE) topology diagrams** including master, slave**, RBAC, helm, kubectl, ingress controllers** and created **Azure Blob** for storing unstructured data in the cloud as blobs.
* Build data pipelines in airflow in **GCP for ETL** related jobs using different **airflow operators** and to load CSV files into GS from SQL server and **Oracle database**.
* Developed Terraform templates for **google compute instances** with custom sized VPC, subnets, created base images with Packer.
* Built and Maintained Docker container clusters managed by **Kubernetes**, Linux, **Bash**, GIT, Docker, on GCP and Orchestrated runtime environment of CI/CD pipeline to build, test and deploy.
* Used Docker, **Kubernetes**, and Open Shift to manage micro services for development of continuous integration and delivery.
* Worked on Configuring and managing **Docker** containers, container storage, Images for Microservices, web server applications, Implemented Docker-maven plugins, and docker files to build custom images using minimum layers for **Java JAR files.**
* Configured **Chef** for managing **Chef Client nodes** and uploading **cookbooks** to chef-server from Workstation.
* Written templates in JSON format for cloud formation and **Ruby Script** for **CHEF** automation and contributed source code to the GitHub repository.
* Configuration of nodes for **Jenkins** to customize builds for different operating systems, optimize and smooth running of builds jobs. Automated Junit tests in Jenkins and test cases in **GitLab Runner** as a part of Build.
* Created **CHEF** Cookbooks and **Recipes** to automate the deployment process and integrated with Jenkins jobs for Continuous Delivery (CD) **framework**. Deployed centralized log management system and integrated into **CHEF** to be used by developers.
* Administered in **migration** of Jenkins server, **Sonatype Nexus repository** for maintaining libraries and Configured Jenkins-Sonatype nexus plug-in to upload the Nuget packages on to Nexus after successful build.
* Build and Release software baselines, code merges, branch and label creation in Subversion and GIT, worked on migration from Subversion to Git with GitLab Runner in both **Linux and windows**
* Supported application development team in setting up the automation environment for the successful execution of **build and release** of the application.
* Wrote **Python** scripts for pushing data from **DynamoDB** to **MySQL** Database. Also created and maintained the Python deployment scripts for Web Sphere web application server.
* Expertise in using **Microsoft IIS Web Server**, Tomcat, **Web logic** and **WebSphere Application** servers for deployment.
* Developed **Cron jobs** and Shell Scripts (**Bash, Perl, Python**) for automating administration tasks like file system management, process management, Server reboots etc.
* Monitored the Application and Infrastructure health by analyzing the logs and observing the user dashboard using Splunk.

**Environments:** AWS, GCP, Java, Maven, Jenkins, GIT, GCS buckets, CHEF, Docker, Kubernetes, Helm, Splunk, Python, Ruby, Dynamo DB, SQL.

**BYJU’S- The learning app, Hyderabad, India**

**Build & Release Engineer Sep 2015 – Nov 2018**

**Responsibilities:**

* In-depth understanding of the **Software development life cycle** starting from **building,** **releasing** and **deployment** including Experience working directly with multiple developmentandproduction teams.
* Designed and deployed **AWS** solutions using **EC2, EBS, Elastic Load Balancer (ELB)**, Auto-scaling groups and OpsWorks. Worked on AWS Auto Scaling for providing high availability of applications on EC2s based on the load of applications with AWS Cloud Watch.
* Created new machines and managed the website and Mobile apps **on Amazon Elastic compute cloud (EC2)** instances.
* Worked with **Amazon Relational Database service (RDS)** for **PostgreSQL** as primary database and stored educational content and presentations in **S3 buckets**.
* Expertise in **Amazon Redshift** fully managed data warehouse to analyze app, website user data and evaluate feedbacks.
* Extensively worked with version control systems like **GIT, SVN** and used concepts of branching, forking, merging, and monitoring versions of source code pushed and pulled by development team into the **GitHub repository**.
* Developed build and Deployment Scripts using **ANT** and **Maven** as build tools in **Jenkins pipeline** to move from one environment to other environment and to connect with slaves for Continuous integration.
* Experienced with the process of deploying EAR, WAR, JAR files to application servers like **Apache Tomcat & Web sphere.**
* Expertise in managing large volumes of **POM.xml** files in Maven from the multi-level environments where there are dependencies for both the parent and the child nodes.
* Created and Organized **artifactories** to manage and reuse Binary artifacts using **JFrog** **Artifactory.**
* Expertise in writing **Shell and Python scripts** used by several tools to automate the process of build and release process.
* Experience with setting up **CHEF** Infrastructure, bootstrapping nodes, node convergence in **CHEF** SCM. Utilized configuration management service **AWS OpsWorks** to handle CHEF to automate how servers are configured, deployed, and managed across EC2.
* Experience configuring and managing **Puppet** master server, creating modules for **MySQL server 5.7** and pushing them to puppet clients and managed **Tomcat** and **IIS web server** puppet module.
* Configured and developed **Puppet manifests, Puppet Master server,** Puppet Console and **Puppet Agents**, Created Puppet modules & Classes and pushed them to **Puppet clients** and built a load-balanced, version-controlled, **Hiera/r10k-enabled Puppet environment**. Promoted Puppet modules with Puppet Promo and Ingrown tools.
* Expertise in writing Bash, PowerShell, and **Python scripts** for the automation of the CI/CD workflows using **Jenkins.**
* Worked together with the development and the testing teams to schedule and execute builds and troubleshooted build failures occurred during the execution.
* Provided support to **Production**, **Staging**, **QA**, Development environments for code deployments, changes, and general support.
* Worked with the release and deployment of the web applications in the **Java/J2EE** based applications environments.
* Installation of **JIRA**, and customization of JIRA for workflow, look & feel, fields, user & group management.

**Environments:** AWS, Subversion/GIT, ANT/MAVEN, Jenkins, Puppet, Nexus, Artifactory, Shell script, JIRA, PostgreSQL, Tomcat, Python Java.

**AHEX technologies, Hyderabad, India**

**Linux Administrator May 2013 – Aug 2015**

**Responsibilities:**

* Handling the day-to-day Operations, install software, apply patches, manage file systems, monitoring performance and troubleshoot alerts.
* Installation and administration of Linux based operating systems like **RHEL 6.0 and SUSE 10.x.**
* Experience in Installation, configuration, tuning, security, backup, recovery, and Operating System upgrade on Red Hat Linux (RHEL 5, 6), Unix, Centos and Ubuntu.
* Support Apache web application and configuration, troubleshooting with script for modules on all the testing servers.
* Production support for installation, configuration, management and troubleshooting of CoreOS, **Apache, My SQL DB, Tomcat server** engines, RedHat Cluster Suite.
* Experience in creating Domain name System (**DNS**) for IP routes, Email Routing, **SSH** connections, File transfer protocols (**FTP**), Secure Protocols (**HTTP/HTTPS**).
* Performed physical server to **Virtual server migration** P2V of Red Hat Linux servers onto **VMware ESX frames** ad Virtual Machines.
* Experienced in the installation as well as creating **master and the slave nodes** to implement simultaneous builds through a build process in a Linux based environment.
* Implemented additional layer of security by executing programs like **SUDO, SSH** to establish secured connections and followed the security compliance as per SOX Act.
* Experience in Linux and using **Shell, Perl, Python** scripting to automate processes. Worked on **RPM** package manager to **install, update, verify, query** and erase software packages on **Linux Servers** and worked on automation of activities using **bash** scripting.
* Shared files between Linux boxes and windows using the **WinSCP**, a secure **FTP, SCP** client for Microsoft Windows.
* Experience in creating, deploying, and managing Linux and Windows workloads using **Red hat Enterprise Virtualization** manager for enhanced performance.
* Used **Nagios** to monitor the day to day performance and maintenance operations throughout the client’s network.
* Responsible for configuring and connection to SSH through SSH clients like **Putty** and **Cyber duck**.

**Environments:** Red Hat Linux, Unix, CentOS, Autosys, VMware ESX, VMware vSphere, GIT, Putty, Shell Scripting, MySQL, Tomcat, Nagios.