

AWS CLOUD/LINUX ENGINEER

Summary

- Around 8 years of experience as Systems Administrator and DevOps engineer with solid experience in Compute, Network, Storage, Automation, Cloud and Virtualization areas of IT.
- Good experience with compute nodes on UNIX platforms such as Linux, CentOS, Solaris, Ubuntu in automated operating system installations using AWS console, Kickstart, Jumpstart.
- Identity and Access management to resources via IAM roles, policies and with Sun Directory Server as well.
- Well experienced in configuration management of various multi-tier applications using Puppet, Chef, AWS User data.
- Heavily worked on Bash scripting, also on Perl, Python to automate the tasks by using cron scheduling.
- Experience with Source Control Management - SVN, Github, Bitbucket in adds, commits, deletes of codes.
- Networking experience in configuration of physical and virtual components such as AWS VPC, ethernet bonding, VMware vSwitches, VMkernel ports, VM ports, traffic shaping, NIC teaming, load balancing & failover detection.
- Traditional and cloud storage experience with Amazon EBS, S3, iSCSI SAN, FC SAN, NAS, multipathing technologies on Netapp, EMC Celerra, Isilon storages.
- Good patch management experience on Linux, Solaris servers and also patching Solaris Zones, Linux physical and virtual servers.
- Virtualization experience with VMware ESX on different HW like HP Proliant, Dell Power Edge hardwares using vCenter server.
- Good hardware experience with HP Proliant, Dell, IBM, Oracle T series servers in asset management, RAID 0, 1, 5, 10 configurations, firmware upgradations, remote management of servers using Oracle ILOM, HP ILO, IBM IMM, Dell DRAC.
- Good working knowledge with the vCenter server features like vMotion, Storage vMotion, High Availability (HA), Distributed Resource Scheduler (DRS), Fault Tolerance (FT) and other products of VMware.
- Hands-on experience in physical to virtual machine (P2V) conversions and virtual to virtual machine (V2V) conversions as well as conversions between different virtual machine formats using VMware Converter and vCenter Guided Consolidation.
- Well experienced in provisioning machines/instances in a fly with Cloudformation, Autoscaling, VMware templates, clones, AWS snapshots.
- Worked with Oracle, HP, NetApp in data center activities such as part replacements, support cases.
- Monitoring of physical and virtual infrastructure using Nagios, Splunk, ELK stack, vCenter Operations Manager, and HP Insight Manager (HP SIM), SCCM.
- Involved in Linux and Solaris DR exercises to recover servers across multiple Sites.
- Active team player, self-motivated individual with good communication, interpersonal skills, fast learner and a good listener.

Experience

AWS Cloud/Linux engineer

April 2013 to Current Onemain (Formerly Springleaf & Onemain Financials). - Georgetown, TX

Responsibilities

- Managed physical and cloud infrastructure running Redhat/CentOS/Solaris on AWS cloud and x86, SPARC hardwares.
- Managed LDAP to add, modify, delete user accounts, group accounts, netgroups and service accounts across the regions globally.
- Used bash and perl scripting to extract, modify, update directory server (Sun) data.
- Configured/Integrated Jenkins with Git to poll codes and Maven to push artifacts to AWS S3.
- Source code management with Github, Gitlabs to add, commit, push codes to various branches and setup Jenkins for auto polling.
- Experience with Configuration Management - Puppet, which includes creating, modifying manifests for various applications. inside modules, cronjob setup, apache installation and configuration.
- Installed and configured Apache and MySQL database via Chef as per the requirements.
- Built Puppet environment inside AWS custom VPC and working knowledge of Chef.
- Day to day management/monitoring/troubleshooting of multi-tier applications using Puppet and Nagios in Dev, QA, Prod environments.
- Developed proof of concept (POC) for linux users home directory migration between data centers.
- Involved in development of AWS POC that includes creating VPC, IAM users, EC2 instances, EBS, S3 resources.
- Created Cloudformation templates to deploy resources in HA, FT, Autoscaling environments in labs.
- Actively involved in the design document of Continuous Integration Continuous Deployment project.
- Extensively used native unix commands like awk, sed, find, grep, cut, paste in bash scripting as per the requirement.
- Documenting project related, operational related procedures.

Environment: Linux, Solaris, Puppet, AWS, Github, Windows, Sun Directory Server, VMware, EMC VMAX, ISILION.

AWS Devops Engineer

January 2012 to March 2013 Company2 - City, STATE

Responsibilities

- Manage network security using Load balancer, Autoscaling, Security groups and NACLs.
- Support current migration of Data Center to Amazon Cloud.
- Focus on continuous integration and deployment, promoting Enterprise Solutions to target environments.
- Design roles and groups using AWS Identity and Access Management (IAM).
- Implement and maintain the monitoring and alerting of production and corporate servers/storage using CloudWatch.
- Document system configurations, Instance, OS, and AMI build practices, backup procedures, troubleshooting guides, and keep infrastructure and architecture drawings current with changes.

- Provide oversight and guidance for the architecture, development best practices for application hosting, and infrastructure deployment for each application.
- Utilize AWS CLI to automate backups of ephemeral data-stores to S3 buckets, EBS and create nightly AMIs for mission critical production servers as backups.
- Use puppet and Chef automation tools for configuration management in different systems.
- Write Puppet manifests in Ruby for deploying, configuring and managing collected for metric collection and monitoring
- Responsible for maintaining 4-5 Different Testing/QA Environments and erection of the PROD Environment in AWS
- Experience with analysis of logs and performing root cause analysis for various issues coming up on daily basis
- Monitoring Live Traffic, logs, Memory utilization, Disk utilization and various other factors which are important for deployment.
- Implement and Enhance the Existing Scripts which are developed in Shell, Perl, Ruby and Python.
- Manage SAN disks like EMC and VMAX using EMC PowerPath.
- Install EMC PowerPath and create Storage RAID groups, LUN's and assigning them to the servers.
- Troubleshoot and performance tuning issues with applications like Oracle 10.x, 11.x JBoss 5.x, WebLogic 11.x, 12.x. Installing and deploying Apache, JBoss 5.x
- Support of Applications like Apache Tomcat and Java based applications running on Linux machines for multiple clients.
- Installation, configuration and administration of Linux (Red Hat, Centos), Sun Solaris and HP-UX Servers.
- Storage Provisioning, Volume and File system Management using LVM/Veritas on HP/UX/Linux/Sun Solaris OS in a SAN environment
- Work with F5 load balancers to load balance and reverse proxy servers. Work with CloudTrail, CloudFront, and Glacier.
- Manage network using Security Groups, NACLs, and IAM. Use Amazon RD and, MySQL to perform basic database administration.
- Utilize Puppet for configuration management of hosted Instances within AWS. Configuring and Networking of Virtual Private Cloud (VPC). Utilize S3 bucket and Glacier for storage and backup on AWS.
- Develop CloudFormation scripts to automate EC2 instances. Design user's credentials and profiles using AWS IAM.

Environment

AWS EC2, VPC, Autoscaling, ELB, Red Hat EL 3/4/5/6, CloudWatch, EBS, Directory Services, Route53, MS SQL 2012, SQL Server Mirroring, Active Directory, DFS

AWS Cloud Administrator

January 2010 to March 2012 Company3 - City , STATE

Responsibilities

- Performed application server builds in EC2 environment and monitoring them using cloud watch.
- Creating Private networks and sub-networks and bringing instances under them based on the requirement.
- Creating Security groups for both individual instances and for group of instances under a network.
- Built DNS system in EC2 and managed all DNS related tasks. Managed the configuration of the applications using chef.
- Maintained all development tools and infrastructure and insure availability for a 24/7 development cycle with teams.
- Launching Amazon EC2 Cloud Instances using Amazon Images(Linux/ Ubuntu) and configuring launched instances with respect to specific applications.
- Creating snapshots and amazon machine images (AMIs) of the instances for backup and creating clone instances.
- Performed Server configuration management via Puppet. Transparent Data Encryption (TDE) implementation
- Database Encryption for mirrored Databases. SQL Web Replication implementation
- Migration of over 2500 Applications with 3000+ Databases
- Setting up private networks and sub-networks using virtual private cloud (VPC) and creating security groups to associate with the networks.
- Setting up scalability for application servers using command line interface for Setting up and administering DNS system in AWS using Route53 Managing users and groups using the amazon identity and access management (IAM).
- Install and configure Amazon command line interface tools Performed migrations of virtual servers from Ubuntu Open VZ physical servers to AWS EC2.
- Developing automation scripts using EC2 commands. Designing SQL Server Reporting Services (SSRS) High Availability
- Managed the configurations of the instances using Ops code Chef. Written and modified various Cookbooks/Recipes for better management of the systems.

Environment :

AWS EC2, VPC, EBS, Windows AD, MS WSFC, MS SQL 2012, SQL Server Always on Availability Group, SQL Server Reporting Services, SQL Web Replication, ELB, Route53, Windows Server 2008 R2, SQL Server Mirroring, Active Directory, DFS

Jr. WebLogic Administrator

January 2009 to January 2010 Company4 - City , STATE

Responsibilities

- Installing WebLogic 7.0, 8.1 and applied Service Packs in different environments.
- Installation, configuration and administration of BEA WebLogic in clustered and non-clustered environments.
- Monitoring tools/scripts to get important information from all of department's servers operating system and application patch level, disk space and memory usage users activities on day-to-day basis.
- Configuring individual servers for different environments.
- Deployed J2EE Web and EJB modules using WebLogic Command Line Deploy tool and WebLogic Admin Console.
- Worked in Java and programming in JavaScript, J2EE, JSR, JSF, AJAX, jQuery, JSON, RICH.
- Used MVC design pattern with JSP, HTML for front-end and Servlets and EJBs for Model layer.
- Implemented Session Beans for implementing Business Logic and Entity Beans to persist the data into the database.
- Used Java Message Service (JMS) for sending confirmations to the passengers about ticket purchases.
- Configured Database Support for WebLogic Application Server.
- Used Ant Build scripts for compiling and deploying the application onto Apache Tomcat Web Container.

Environment:

BEA WebLogic 7.x, Tomcat 4.x, Java 1.4, EJB 2.0, JSP, JMS, JDBC, SQL Server 2000, CVS, Windows NT/2000, LDAP.

Skills

- DevOps Tools: Chef (Intermediate), Puppet (Advanced), Jenkins (Advanced), Vagrant (Advanced), Docker (Intermediate)
- Cloud Platforms: AWS, VMware ESXi, Microsoft Azure, Rackspace, Open stack.
- Operating Systems: Red Hat Linux, Solaris, Ubuntu, openSUSE, Fedora, CentOS, Windows (XP, vista, 7, 8, 10)
- Hardware: Cisco Catalyst Switches / Router, Sun Fire [€] Cisco UCS Blades, Ultra Enterprise [€] F5 Load balancers, Dell R710, R720, R510 and R910, IBM Blade Servers.
- Network Protocols: TCP/IP, SMTP, SNMP, DNS, DHCP, ICMP, FTP, TELNET, SSH, UDP, RIP, OSPF.
- Web/Application Servers: Tomcat, Apache, Web logic, WebSphere.
- Database: Oracle 10.x, MySQL, SQL Server.
- Languages: Linux Shell Scripting, Perl, Python, Ruby, C, C++, Java.