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OBJECTIVE

Find a role in a reputable organization where my DevOps automation, system and database administration, cloud computing and virtualization skills can be useful to take its systems to the next level of automation and at the same time allow me to expand my knowledge in these technical domains. I have experience designing, building and deploying systems aligned with DevOps good practices in the UK regulated Financial Services industry.

PROFESSIONAL EXPERIENCE

GkBk Limited (Startup)

DevOps Consultant(Contract)

(Sept 2018 - To Date)

Technologies Using: Amazon AWS, RedHat/CentOS 7, Firewall, Ansible, Terraform, Docker, Kubernetes

Responsible:

- Create AWS infrastructure using terraform.
- Using Ansible to configure applications/services like nginx, tomcat, sonarqube, nexus, jenkins and deploy kubernetes resources using jenkins pipeline.
- Implement AWS EKS service using terraform.
- Create reusable terraform modules which are used to create multiple environments.
- Deploy and configure Spring cloud data flow services in kubernetes which is used for data integration and real-time data processing pipelines.
- Deploy and configure Istio for managing microservices mesh.

Project:

- Started GKBK project from scratch

OakNorth Bank Plc

Systems/DevOps Engineer

(June 2015 - Aug 2018)

Technologies Using: Amazon AWS, RedHat/CentOS 6 & 7, Ubuntu 12.04, Firewall, Ansible, Terraform, Docker, Kubernetes

Responsible:

- Designing, building, automating and managing Financial Service Systems for OakNorth
- Start and implement a **DevOps** culture at OakNorth.
- Managing Docker based web applications for production environment.
- Managing AWS Infrastructure for OakNorth Bank
- Managing infrastructure (Firewalls and switches) of 3 offices (Manchester, London, India)
- Configure and Deployed AWS Infrastructure using Terraform
- Monitoring AWS using cloudwatch and alert management via Pagerduty
- Monitoring Application logs using Kibana, fluentd and Elasticsearch
- Monitor Docker containers using cAdvisor and AWS Cloudwatch
- Configure AWS RDS with Multi-AZ and failover in other region
- Configure WAF to protect public facing apps
- Install and Configure Jenkins for CICD pipeline
- Providing oncall support.
- Installing/configuring/Managing web application services like apache httpd and Tomcat.
- Administering Active Directory server
- Create and implement Kubernetes controllers (with autoscaling) like deployment, statefulsets for different application with configurations in configMap and credentials/secrets in Kubernetes secrets.

- Create and implement Kubernetes services with internal and external services like ClusterIP, AWS ELB and Azure load balancer.
- Creating Linux based shell scripts for managing system specially cronjobs Activities
- Implementing OS security/hardening and designing system architectures with CIS best recommendation
- Create python based Ansible's custom modules just for OakNorth systems.

Project:

- Migrated OakNorth's Financial Services Systems to AWS and automate the deployment process from infrastructure to application configuration using terraform, ansible and Jenkins. – OakNorth became the first UK bank fully hosted on the cloud.
- Migrated application platform from normal (VM based) to Docker based platform.

Connexity

System Administrator (Linux)

(Dec 2014 – May 2015)

Technologies Using: RedHat/CentOS 5,6 & 7, Ubuntu 12.04, Load Balancers, puppet, chef, Cloudstack

Responsible:

- Managing Cloudstack based private cloud
- Install Redhat/Centos Enterprise Linux 4, 5, 6 & 7 servers by using Kickstart/satellite & Cobbler servers
- Configure Space walk and satellite servers package repositories for linux boxes.
- Providing Oncall support.
- Installing/configuring/Managing web application services like apache httpd and Tomcat.
- Administering and monitoring outages by using Xymon/Hobbit Monitoring tool
- Administering LDAP directory server
- Administering Xymon/Hobbit for monitoring Linux servers in production environment
- Performing MySQL Replication and performance tuning
- Providing Disk management support through physical RAID, LVM & Disk Quota Utiliy
- Using ILO/DRAC utility to administer and manange Dell,HP and Rackable servers
- Using Grafana and wrpm Graphs to check the load on the boxes over the network.
- Creating Linux based shell scripts for managing system specially cronjobs Activities
- Implementing OS security/hardening and designing system architectures with CIS best recommendation

Project:

- Implementing Bacula/Bareos OpenSource solution for enterprise backup.

MAFHH Network Ltd

Linux System/DevOps Engineer (Contract)

(Aug 2013 – Dec 2014)

Technologies Using: RedHat/CentOS 5,6 & 7, Vsphere & VCenter 5, puppet.

Responsible:

I have been working in the following areas;

- Troubleshoot and resolve Linux issues by telephone and e-mail
- Install Redhat/Centos Enterprise Linux 4, 5, 6 & 7 servers by using Kickstart/satellite & Cobbler servers
- Install and configure Debian 5 & 6 servers by using cobbler servers
- Configure Space walk and satellite servers package repositories for linux boxes.
- Providing Oncall support to customer on weekly basis when required
- Installing/configuring Tomcat Servers on all our Gala bingo games boxes
- Use Ant to Build code and deploy Java based web application on Tomcat boxes.
- Building Application Code and deploy on Apache cluster with the help of HAProxy
- Administering and monitoring outages by using Nagios Monitoring tool
- Administering Fedora LDAP directory server
- Administering Nagios for monitoring Linux servers in production environment
- Administering Linux on VMware Virtualization environment
- Running SQL scripts on MySQL and Oracle DB environment

- Performing MySQL Replication and performance tuning
- Providing automated configuration and maintenance of servers using Puppet policy based configuration management.
- Providing Disk management support through physical RAID, LVM & Disk Quota Utility
- Administering and Patching HP G5 and G6 servers
- Using ILO utility to administer and manage both HP and IBM blade servers
- Using Cacti Graphs to check the load on the boxes over the network.
- Install SSL certificate on Apache and F5 Apache load balancer
- Patching Redhat/Centos Linux OS by using Redhat and Spacewalk Network Portal
- Creating Linux based shell scripts for managing system specially cronjobs Activities
- Implementing OS security/hardening and designing system architectures with CIS best recommendation
- Involved in on going Bingo migration project from its old hardware to new VMware
- Use Space walk and Redhat network portal to patch all are Linux boxes.
- Performing MD5 checks across all our web boxes to maintain integrity across similar Web platforms
- Working on Puppet based environment for Infrastructure Automation.

Funcity Pakistan (Project of 101asi Group)

(Jan 2014 – Mar 2014)

IT Executive

Technologies Used: Windows Server 2008 R2, RedHat/CentOS 6, VSphere & VCenter 5, Load Balancer.

Responsible:

- Providing Oncall support to customer on weekly basis when required
- Maintaining Gaming System installed in Funcity.
- Maintaining Linux/windows based computer network setup in the office. Various services provided by this network are: web services, Web caching and content control through SQUID, Traffic / bandwidth control using "iptables" firewall, FTP server, File sharing and printing using Samba
- Configure and Manage web services.
- Creating Linux based shell scripts for managing system specially cronjobs activities
- Deployment of technical support resources to various in-house problems
- Network Monitoring through Nagios.
- Maintaining CCTV camera setup.
- Installing, configuring and troubleshooting front and backoffice gaming software (Intercard software)
- Assist network technicians in network cables layout, connector attachments, etc.
- Trouble-shoot hardware and software issues of customer's PCs, including data recovery operations.

Hamdard University Islamabad Campus

(Feb-2009- To Dec-2013)

System/Linux Support Engineer

Technologies Used : Red Hat/Centos 5 & 6, Windows Server 2008, TMG 2010, VMware VSphere 4 & 5, VCenter 4 & 5, Load Balancer.

Responsible:

- Maintaining Linux/windows based computer network setup in the office. Various services provided by this network are: web services, Web caching and content control through SQUID (or TMG), Traffic / bandwidth control using "iptables" firewall, FTP server, File sharing and printing using Samba.
- Deployment of technical support resources to various in-house problems
- Network Monitoring through Nagios.

- Linux PXE Boot installation with Kickstart templates.
- Storage Management through software RAID, LVM 2.0 and Quota Implementation.
- Designed, Implemented and managed Active Directory Tree, DNS infrastructure using RedHat Linux Enterprise v6 and Windows 2008 Server.
- Managing, Configuration of HP and Dell servers
- Assist network technicians in network cables layout, connector attachments, etc.
- Trouble-shoot hardware and software issues of customer's PCs, including data recovery operations.

PROFESSIONAL COURSES/ CERTIFICATION

- CISCO Certified Network Associate (CCNA)
 - **Certificate Verification Number** : 408464174300ANYN
- Red Hat Certified System Administrator (RHCSA)
 - **Certificate Number:** 140-176-520
- Red Hat Certified System Engineer (RHCE) training
- Red Hat Certified System Administrator (RHCSA) training
- VMware Certified Professional – Datacenter Virtualization training
- Advanced AWS Architect – Training

EDUCATION

***BS in Electronics Engineering (Spec. in Computer Engineering) 4 Years (CGPA 3.29/4.0)**

KEY SKILLS

AREA OF EXPERTISE:

OPERATING SYSTEMS:	Red Hat Enterprise Linux (6 7), Centos 6,7, Fedora, Ubuntu, Window Server 2008/2012
SERVICES:	BIND 9 DNS, SQUID with Caching and DMZ, DHCP, Apache, Tomcat, IIS, NTP, Sendmail, Postfix, VSFTP, SCP, sFTP, ,NFS, SSH, Auto mount, Windows DC, SAMBA as Domain Controller, Cobbler
SECURITY TOOLS:	Fortigate 100D firewall, SELinux, Firewalls SSG20, IPTables, SSL, Security Services, Digital signatures / certificates, Public / Private keys.
NETWORK MONITORING TOOLS & REMOTE ADMINISTRATION:	Nagios, Cacti, SSH, Putty, telnet, VNC, Windows Remote Desktop. RANCID (backing up CISCO devices), Katello, spacewalk
STORAGE MANAGEMENT/ PROTOCOL :	Dell MD1000, MD3000i, SAN (iSCSI based configuration in Linux), NFS, CIFS.
CLOUD COMPUTING/ VIRTUALIZATION:	Amazon AWS, Docker, Openstack, Cloudstack, VMware ESXi Server 4 & 5, VCenter 4,5, KVM, oVirt, Openshift
HIGH AVAILABILITY/ CLUSTERING/FILE SYSTEM:	RedHat Clustering, Load Balancing, Disaster Recovery, High Availability, GFS 1 & 2, Cluster Logical Volume, Multipathing, Kubernetes
TROUBLESHOOTING:	Ability to troubleshoot major (almost all) computer problems on both hardware and software level (operating system especially and Linux rescue environment).

KNOWLEDGE:

DATABASE:	MySQL Replication, MySQL High Availability with DRBD, MySQL Disaster Recovery and MySQL Clustered
PROGRAMMING LANGUAGES:	BASH, C, Verilog HDL, Ruby for Chef automation scripting, python for ansible and scripting
Version Control:	Subversion, git
IT AUTOMATION TOOLS:	Puppet, Chef, Jenkins. Ansible, terraform

SKILL & ABILITIES

- Highly organized & dedicated, with a positive attitude.
- An enthusiastic and self-motivated individual with an ability to adapt very quickly to change
- A hard worker who does not measure the amount of effort but rather the progress made towards the achievement of both company and personal objectives
- Good oral, written communication and interpersonal skills

REFERENCES

References are available on request.