**Zaheer Uddin - Sr. DevOps Engineer**

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**Professional Summary:**

* Around 8+ years of IT Industry Experience in Linux Administration, Configuration, Management, Continuous Integration, Continuous Deployment and Cloud Implementations.
* Over 2 years of experience in core AWS services (S3, EC2, ELB, EBS, Route53, IGW, VPC, Auto scaling etc.) and deployment services (Elastic Beanstalk, Ops Works and Cloud Formation) and security practices (IAM, Cloud watch and Cloud trail).
* Experience in Implementing Organization DevOps architecting and automating in various environment of Linux and windows servers along with adopting cloud strategies based on Amazon Web Services.
* Managed Linux and Windows virtual servers on AWS EC2 using Chef Server. Configured and monitored distributed and multi-platform servers using chef, defining Chef Server and workstation to manage and configure nodes. Developed Chef Cookbooks to manage systems configuration.
* Experience in managing Private Cloud and Hybrid cloud configurations, patterns, and practices in Windows Azure and SQL Azures and in Azure Web and Database deployments.
* Experience maintaining CI environments with build automation tools like Jenkins, Bamboo and TFS.
* Extensively used Jenkins to streamline CI/CD process, automated and architect several Master-Slave configurations using temporary slaves.
* Designed and Architected Cloud architectures for customers looking to migrate or develop new PaaS, IaaS, or hybrid solutions utilizing Microsoft Azure or Amazon Web Services (AWS).
* Experience with Configuration Management tools (Puppet, Chef and Ansible).
* Designed Rapid deployment method using Ansible to auto deploy servers as needed.
* Built a new CI pipeline. Testing and deployment automation with Docker, Jenkins, and Ansible.
* Experience in developing and implementing infrastructure as code, automated provisioning and configuring using Chef, Puppet and Ansible.
* Experience in DevOps Engineering in automating, building and deploying of code within different environments.
* Experience in Amazon EC2 setting up instances, VPCs, and security groups.
* Experience in managing AWS VPC (Virtual Private Cloud) environment with around 200+ Linux and Ubuntu instances.
* Implemented Spring boot microservices to process the messages into the Kafka cluster setup.
* Familiar with TCP/IP, HTTP, JavaScript, Web Services (RESTful), big data (e.g. HADOOP), caching mechanism, Load Balancing, multi-data center architecture.
* Installation of Web components like IIS 7.5, Apache Tomcat Servers, FAST Application Stack on the Windows 2008/ UNIX environments.
* Experience in analyzing the IIS logs to collect information about server events, server performance, and user activity.
* Monitoring Production operations like administration, configuring Hadoop, Debugging and Performance analysis.
* Worked on installation and migrating of MongoDB collections to new DynamoDB tables.
* Worked on creating various types of indexes on different collections to get good performance in Mongo database.
* Strong experience in analyzing chunk migrations, splitting and balancing across the cluster.
* Setting up databases in AWS using RDS, storage using S3 buckets and configuring instance backups to S3 bucket.
* Experience in Virtualization technologies like VMware, Vagrant and worked with containerizing applications like Docker, Kubernetes.
* Experience with container-based deployments using Docker, working with Docker images, Docker Hub and Docker registries and Kubernetes
* Extensive experience in working with Oracle, WebLogic, Apache Tomcat application servers.
* Expertise in implementing applications using, shell scripting and UNIX.
* Domain expertise includes, system developments using Core Java& J2EE Technologies such as JDBC, XML, ANT, Maven.
* Well Versed in developing applications using Struts, JSF, spring and hibernate.
* Used Spring Core Annotations for Dependency Injection Spring DI and Spring MVC for REST API s and Spring Boot for microservices.
* Experience in creating Docker images, Containers, push/pull and integrating with Spring Boot.
* Experience in handling messaging services using Apache Kafka, JMS and RabbitMQ.
* Experience in J2EE Application Development using Web/Application Server like IBM WebSphere, JBOSS Server and Apache Tomcat Server and Oracle Web logic.
* Experience in maintaining and executing build scripts to automate development and production builds.
* Experience in application development, debugging, implementation, supporting dev team, testing of Oracle based ERP using SQL and Database Triggers.
* Point in time Backup and recovery in MongoDB using onsite MMS
* Knowledge of databases like MySQL, Oracle, MongoDB, DynamoDB and Cassandra.
* Developed background process infrastructure on top of Windows Azure Queue.
* Knowledge of testing Web based applications, Mainframe applications, Mobile application and Web based service applications.
* Familiar in building a command line tool to interact with RESTful API using in Golang.
* Installed and created an automation interface between the mainframe and client servers.
* Preparation of Technical designs, Unit test plan & construct code as per technical /functional specifications on mainframe technology and setting up test environments.

**Technical Skills:**

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| --- | --- |
| Cloud Services | Azure AKS, Amazon EKS, Mirantis, Rancher,Openshift |
| Automation Frameworks | Terraform, Anible, Docker, Puppet, Chef, .NET Frameworks, and Vagrant. |
| Build Tools | Jenkins,Apache Maven and Apache Ant and Gradle. |
| Scripting | PERL, BASH, Python, JavaScript, spring framework (SQL, PL/SQL, Shell/Bash scripting, Golang, Core Java |
| Database & Servers | Cassandra, HBase DynamoDB, MongoDB,DB Maestro, Redshift, Oracle, MS SQL Server 2012, MySQL |
| Operation Systems  | Linux, Solaris, Microsoft Windows. |
| Web Servers | Apache Tomcat, JBOSS, WEBrick |
| J2EE Technologies  | JSP, Servlets, JMS, Web Services, Kafka, ActiveMQ |

**Professional Experience:**

**Abbott Labs – Lake Bluff, Illinois May 2021 – Till date**

**Devops/Cloud Solution Engineer**

* Responsibilities:
* DevOps and Agile Delivery and SLC methodologies adjusted for container service delivery and integration with Abbott DevOps organizations.
* Software life cycle methodology that we follow in order to test, release, deploy, monitor and maintain applications
* Development of Abbott It project to easily run and deploy their containers workloads.
* The system includes on premise and Azure/Amazon public cloud computing clusters, central management capabilities for security, compliance and policy standardization, CI/CD automation of builds and deployments, automated testing and operational capabilities.
* Uses Infrastructure as Code tools (e.g. Terraform and Packer) and techniques to deliver re-usable services for container and java server environments.
* Running the terraform scripts to spin up AKS/EKS Kubernates clusters and installing tools like Prisma, logic monitor after post creation of cluster.
* Accountable for Java application architecture and conversion into micro services to run as containers.
* Implements Continuous Integration and Continuous Delivery pipelines for the deployment of application and infrastructure stacks.
* Designing and implementation of continuous integration and delivery processes and systems for highly available and performance application stacks.
* Integrate shell scripts in Jenkins pipeline and automate the JVM’s (Java virtual machine), fetching logs and applications.
* Provides self-service capabilities to application and container teams.
* Automate container operations tasks including backups and patching.
* Automation of various windows applications using Docker Swarm and deploy to Kubernates.
* Automation of Linux based application using ingress services and deploying it to Kubernates.
* Using PowerShell, we configure the automated patching for SQL server in Azure Portal.
* Drives and aligns innovative enterprise-wide container solutions across Abbott IT, business management, enterprise vendors, and internal support organizations.
* Work with Proof of concepts for implementing CI/CD pipeline, Jenkins in the current infrastructure
* Integrate the python scripts with the Jenkins, to deploy the Jenkin jobs.
* Set up the Docker engine in the cloud EC2 instances, a and create Docker containers to build, ship and run the images to deploy the applications.
* Executed a Kubernetes POC (proof of concept) to demonstrate the viability of container orchestration
* Extensively worked on Jenkins by installing, configuring and maintaining continuous integration(CI) and for End to End automation for all build and deployments.
* Responsible for compliance to applicable Corporate and Divisional Policies and procedures.
* Serve as a technical contributor to Containers/Kubernetes team, and discover uses within Abbott.
* Create develop and test environments of different applications by provisioning Kubernetes clusters on AWS using Docker and Terraform.
* Work on creation of Amazon EC2 Cloud Instances using Amazon web services (Linux/ Ubuntu) and configuring launched instances with respect to specific applications.
* Set up the Docker engine in the cloud EC2 instances, an and create Docker containers to build, ship and run the images to deploy the applications.
* Recommend new software, utilities and tools related to container-as-a-service strategy.
* Implement application performance loading test performance tools using industry leading tool-chain.
* Work on several Docker components like Docker Engine, Docker-Hub, Docker-Compose, Docker Registry and Docker Swarm to build the application containers.
* Develops automation related to containers and Kubernetes environments, and provides top level support of IT solutions aligned with customer’s business objectives and other infrastructure technology disciplines within BTS-IS.
* Responsible for collaborating with the application owners and ensuring in getting clarifications on the final requirements before creating on- premise/cloud containers.
* Code Maintenance for the projects using GitLab, GitHub (Source, Document the process).
* Proactively asses the effectiveness of standards, methodologies and processes; driving change as appropriate for continuous improvement.
* Updating the status daily pertaining to the task assigned on the Jira board and documenting in both SharePoint and confluence.
* Participate in the daily scrum to analyze the development of the application and strategize in the meeting the projected deadline by working effectively with other Team Members.
* Design and maintenance of the source code Repositories and the access control strategies.
* Modernize Java Application Server environments and applications.
* Updated and containerized java application using kubernetes, deploy them to run on Docker containers.
* Maintained repository of Java codes performing all the Configuration management activities of the project.

**Bank of New York Mellon - Plano, TX/New York, NY Oct 2018 – April 2021**

**Devops/Automation Engineer**

**Responsibilities**:

* Expertise in writing Ansible Playbooks, modules and roles. Utilized Ansible for configuration management of hosted Instances within AWS.
* Extensively worked on Jenkins for continuous integration from pulling up the code from version control tools like GIT, SVN, CVS, IBM Clear Case and building Artifacts using build tools like Ant, Maven and Gradle. And deploying them into artifact repositories like Nexus and Maven.
* Automating the CICD pipelines using Azure DevOps Pipelines, Jenkins Pipelines and Octopus tools, configured TFS builds and Jira dashboards to automate the builds and Deployments for different environments like Training, SEC, INT, QA, MOCK, OS, and Production.
* Configured the SonarQube, Nexus, Coverity, Black Duck for Code vulnerabilities and code analysis.
* Writing the PowerShell scripts for automating the windows services and scheduling the task and automating through Jenkins and Azure Pipelines.
* Provisioned the highly available EC2 Instances using Terraform and cloud formation and wrote new plugins to support new functionality in Terraform.
* Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, IGW and RDS in Cloud Formation JSON templates.
* Proficient in writing AWS Cloud Formation templates to create custom sized VPC, subnets, NAT, EC2 instances, ELB's and Security groups.
* Knowledge on Kafka to build real-time data pipelines and to transform the data.
* Used Microservice architecture with Spring Boot based services interacting through REST.
* Involved in defining, developing, and maintaining an Application Release Road map over different environments to facilitate an agile development process which is automated and repeatable enabling teams to safely deploy code many times a day while ensuring operational best practices are supported.
* Configuration of certain IIS related settings are coded into the web.config file as part of the Web configurator utility effort.
* Managing Webservers and Troubleshooting the .NET applications thru Advanced IIS tracing techniques.
* Implemented Infrastructure automation through Ansible, for Auto provisioning, Code deployments, software installation and configuration updates.
* Managed Code Repository by, maintaining code repository in GIT, Improve practices of branching and code merge to custom needs of development team.
* Develop the Jinja2 templates and pushed into Artifactory to deploy on servers using automation tool Ansible.
* Responsible for developing the automated scripts, promote the scripts to various environments, functionally Test to specifications, coordinate with development team and architect per the plan.
* Used Ansible to configure and manage infrastructure, created Playbooks to automate the configuration setups, Established Ansible Best practices approaches to system deployment with tools with Vagrant and managing Ansible Playbooks as a unit of software deployment and independently version controlled.
* Extensively worked on Jenkins CI/CD pipeline jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the Jenkins build process.
* Implementing or exposing the Micro service architecture with Spring Boot based services interacting through a combination of REST and Apache Kafka message brokers.
* Implemented Kafka producer and consumer applications on Kafka cluster setup with help of Zookeeper.
* Expert in creating modular roles for Ansible modules which can be reusable to automate the deployment without errors.
* Managed Amazon Web Services (AWS) infrastructure with automation and configuration management tools such as Ansible.
* Extensive experience on configuring Amazon EC2, Amazon S3, Amazon Elastic Load Balancing IAM and Security Groups in Public and Private Subnets in VPC and other services in the AWS.
* Use CloudWatch to keep track of servers.
* Maintain GIT Repositories, Handled Releases and Branching activities for GIT.
* Used Ansible-Vault to Encrypt and Decrypt the file and Deployed on Client servers using AWX.
* Automated couple of workflows using PowerShell. Involved in writing background jobs using PowerShell.
* Build the RPM packages for Linux and Chocolaty packages for windows as per the requirements.
* Customize the Choco packages with using Power shell script.
* Expert in working with PowerShell, Shell scripting and Yaml for developing the customer requirements.
* Used Jenkins to automate most of the build related tasks.
* Deploy the packages and install the applications using the AWX as ansible tower in multiple servers at a time and troubleshoot immediately.
* Manage and migrate physical servers (Linux, Windows) to Cloud and VMware such as AWS, Docker and ensure they operate properly.
* Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test and deploy.
* Support designing and dev. groups with onboarding/sending cloud, virtualized administrations/or potentially empowering automation.
* Coordinate with Architects and Project Manager for the Build, Release and Operations of the Projects to maintain typical requirements.
* Experience in managing MongoDB environment from availability, performance and scalability perspectives.
* Worked on Software Development Life Cycle (SDLC) methodologies such as Agile and SCRUM.
* Develop and support the software Release Management and procedures.

**Environment & Tools**: Ansible, VMware, Putty, Mobaxterm, Linux Server RHEL-6,7, windows 2012R, Windows 2016, Power shell, GIT, Chocolatey Packages, RPM packages, AWS, AWX, MYSQL, App Engine,.Net, c#, Docker, Apache Tomcat.

**Kaiser Permanente, Pleasanton, CA Jan 2017 – Aug 2018**

**Cloud/DevOps Engineer**

**Responsibilities**:

* Manage all aspects of the end to end Build/Release/Deployment process for multi Project
* Was a part of DR exercise and actively involved in creating replica in another AWS AZ’s.
* Design EC2 instance architecture to meet high availability application architecture, deploying, configuring, managing servers in AWS, created monitors, alarms and notifications for EC2 hosts using Cloud Watch.
* Support, troubleshooting, problem resolution for the developed Cloud Formation scripts to build on demand EC2 instance formation.
* Continuous deployment, integration, and promoting Enterprise Solution deployment assets to target environments.
* Use Amazon RDS MySQL to perform basic database administration, set up DynamoDB for NoSQL data for other teams on lightweight Docker containers with elastic search and quick indexing.
* Migrating Services from On-premises to Azure Cloud Environments, collaborating with development and QA teams to maintain high-quality deployment.
* Designed and implemented by configuring Topics in new Kafka cluster in all environments.
* Wrote Kafka producers to stream the data from external rest APIs to Kafka topics.
* Worked on Continuous Integration CI/Continuous Delivery (CD) pipeline for Azure Cloud Services using chef.
* Worked on configuring Azure web apps, Azure App services, Azure Application insights, Azure Application gateway, Azure DNS, Azure Traffic manager, App services, Analyzing Azure Networks with Azure Network Watcher, Implementing Azure Site Recovery, Azure stack, Azure Backup and Azure Automation.
* Utilized Puppet for configuration management of hosted Instances within AWS.
* Elastic and F5 Load Balancer, and DNS services with amazon Route 53.
* Migrating a production infrastructure into an Amazon Web Services VPC utilizing AWS CloudFormation, EC2, S3, Chef/Ops Works, CloudWatch, CloudTrail, EBS, Route 53, IAM etc. This included migrating a number of production MySQL databases into RDS/ Elastic Cache, rewriting a large set of monolithic recipe-based cookbooks as Provider and Attribute-driven wrapper cookbooks.
* Implementing a Continuous Delivery framework using Jenkins in Windows & Linux environment.
* Set-up and maintain fully automated CI/CD pipeline for multiple Java using Git, Jenkins, Puppet / Chef.
* Optimized volumes and EC2 instances & created multi AZ VPC instance
* Installation configuration and administration of MongoDB databases
* Used IAM to create new accounts, roles and groups
* Automation of Redshift, EC2, RDS, Elastic Cache.
* Provide highly durable and available data by using S3 data store, versioning, lifecycle policies, and create AMIs for mission critical production servers for backup.
* Used Chef to configure and manage infrastructure. Written cookbooks to automate the configuration setups.
* Implemented Branching strategies using Git and responsible for creating branches and resolving the conflicts while merging in Git and performed migration setup from SVN to Git using bit buckets.
* Installed and configured Nexus for artifacts repository. Published snapshot and release versioned artifacts into Nexus repository.
* Ability to create scripts using Azure PowerShell during for automation and build process.
* Experience in automating day-to-day activities by using Windows PowerShell.
* Performed configurations from Jenkins to nexus and maintained Jenkins to implement the CI process.
* Performed configurations from Apache tomcat and web logic to Jenkins.
* Configured Developed build and deployment scripts using ANT/Maven as build tools and Jenkins as automation tool to move from one environment to other environments.
* Built and Deployed Java/J2EE to a web application server in an Agile continuous integration environment and also automated the whole process.
* Support development team for multiple scenarios for debugging and troubleshooting like internal code debugging of spring framework of restful web services by using tools like postman, swagger.
* Created Ansible playbooks to automatically install packages from a repository, to change the configuration of remotely configured machines and to deploy new builds.
* Worked with Ansible (automation tool) to automate the process of deploying/testing the new builds in each environment, setting up a new node and configuring machines/servers.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on AWS instances using Python. Run Ansible Scripts to provision Dev servers.
* Configured the Ansible playbooks with Ansible Tower so that other users can run them with just a push of a button.
* Experience in developing Chef cookbooks is and recipes from scratch and coding to manage system configuration.
* Experience in implementing Chef and Docker and used Chef Server and workstation to manage and configure nodes.
* Work on AWS Ops Works in integration with Chef Configuration management tool to maintain infrastructure.
* Responsible for implementation and coordination of the automated testing tool - Certify for the regression testing of the renewal cycles, batch jobs and various screens in the mainframe system.
* Created framework from scratch for TS2/TSYS (TSYS provides payment processing and is Mainframe application), PACER (Public Access to Court Electronic Record) and RECAP application with Ruby Cucumber.
* Preparation of Technical designs, Unit test plan & construct code as per technical /functional specifications on mainframe technology and setting up test environments.

Environment: AWS (IAM, EC2, S3, EBS, Glacier, ELB, CloudFormation, CloudWatch, CloudTrail, SNS, SQS, Route S3, RDS), Git, Chef, Splunk, Bash, Shell, Dynamo DB, RHEL 4/5/6, CentOS, Apache Tomcat, ActiveMQ

**State of AZ Dept, Phoenix, AZ Aug 2016 – Dec 2016**

**DevOps Consultant**

**Responsibilities**:

* Installation of Oracle on Linux and Solaris, creating database, creating Oracle users etc.
* Worked on User administration setup, maintaining account, monitor system performance using Nagios and Tivoli.
* Involved in installing Puppet client on Red hat & Solaris servers for Automation purpose.
* Monitoring day-to-day administration and maintenance operations of the company network and systems working on Linux and Solaris Systems.
* Involved in developing custom scripts using Python, Perl & Shell (bash, ksh) to automate jobs.
* Merged generated reports as per request, formatted data into required format using UNIX Shell Scripts, SED and Awk.
* Developed build and Deployment Scripts using ANT and Maven as build tools in Jenkins to move from one environment to other environments.
* Developed Continuous Integration, Nightly and On-demand build system from scratch with Jenkins, ANT, and Maven.
* Expert in installing and configuring Continuous Integration tools such as Jenkins for build and deployment automation.
* Set-up the Chef servers, Chef Workstations, Chef Nodes and involved in bootstrapping new infrastructure Chef Nodes for software configurations management.
* Configured multiple cookbooks, recipes, templates and attributes on workstations to be deployed to various Chef Nodes.
* Involved in Chef-infra maintenance including backup/security fix on Chef Server.
* Defined and Developed plan for Problem & Incident management Process based on ITIL.
* Networking protocols such as TCP/IP, Telnet, FTP, NDM, SSH, rlogin.
* Security auditing using Korn programming. Shell Programming for day to day system administration.
* Worked on the administration of the WebLogic, JBoss servers including installation and deployments.
* Used Python programming in Linux platform to design the front-end portion of the plug-in.
* Integrating UNIX file systems using packages like SAMBA. Installation and configuration of Oracle 8/9i database on Sun Solaris Servers.
* Integration of Linux/Solaris with Active Directory (LDAP).
* Production support of Apache, PHP, My SQL, Tomcat including installation, configuration, management and troubleshooting. Done security patching.
* Installation and configuration of Veritas Storage Foundation Suite, Volume Manager, Cluster Servers & Veritas File systems (Vxfs).
* Used Python programming in Linux platform to design the front-end portion of the plug-in.
* Written shell scripts and Perl scripting to take backup oracle database.

Environment: Java/J2ee, Eclipse, Chef, AWS (Amazon Web Services) Ant, Maven, Subversion, SVN, GIT, Python, Ruby, Nexus, Sonar, UCD, Jenkins, PERL, BASH, Solaris, UNIX.

**Trans Union, Chicago, IL Jan 2016 – July 2016**

**Senior System Administrator**

**Responsibilities**:

* Perform multiplatform volume management using SVM, LVM, ZFS, NAS, and VERITAS volume manager.
* Performing regular function checks on all RHEL 5.5 Linux Servers in both environments especially on Apache servers.
* Red Hat Linux server administrator, including security patching, kernel tuning, RAID disk array management, software packaging and installation using RPMs
* Troubleshoot build, install, configuration, performance, monitoring and other process issues of the servers and the selected application environments.
* Create Change Records, walk through the construction of tasks to validating and approval steps and deploy application enhancement in Development and Production Environments.
* Integrated Maven with Perforce to manage and deploy project related tags.
* Installed and administered Tomcat repository to deploy the artifacts generated by Maven and to store the dependent jars which are used during the build.
* Mentor Business Areas on Subversion Branching, Merging strategies concepts.
* Resolved update, merge and password authentication issues in Jenkins and Jira.
* Involved in implementing Tool Suite (Jira, Jenkins).
* Setting up continuous integration and formal builds using Jenkins with Maven and Tomcat repository.
* Involved partially in deploying WARs/EARs (backend) through Web logic Application Server console.
* Performed setup of clustered environment with Web logic Application Server.
* Used Shell script to configure the Web logic application server in all the environments
* Support Lead developers with Configuration Management issues.
* Managed all the bugs and changes into a production environment using the Jira tracking tool

**Environment**: Linux RHEL 5/6, SVN, Shell/Perl Scripts, SCM, Jenkins, Build Forge, Maven and ANT, Tomcat, Jira

**Sutherland IT Services, Hyderabad, IND Jul 2011 – May 2015**

**System Administrator**

**Responsibilities**:

* Support and roll out Network campus using Cisco ACI and Nexus switches
* Established strong working knowledge of working with and troubleshooting routing and routed protocols
* Responsibilities include discovery, troubleshooting and resolution of Cisco' customers global enterprise wide Network issues
* Designing, creating and troubleshooting Network in a multi VLAN networking environment
* Troubleshooting, diagnosing, and repairing Cisco Catalyst 2900, 4000, 5000 and 6000 family switches
* Troubleshooting, tracking, and abating bridging loops and spanning-tree protocol failures
* Configuring encrypted IPSEC VPN tunnels between remote Cisco routers
* Learned to support, troubleshoot WAN issues and working with ISP's to resolve WAN related issues.
* Learned thoroughly about networking technologies and best practices for troubleshooting.
* Learned about monitoring networking device performance using tools such as Solar winds and Net Qps
* Learned how to create visio documentation for Network layouts and designs
* Learned how to assist customer in troubleshooting Network performance issues using packet analysis tools such as Op Net, Wire Shark, Ethereal, etc.

**Environment**: Windows, WebSphere Application Server 6.1, 7.0, IBM Http Server 6.1, 7.0, WebSphere MQ 5.0, CACS & Recovery.