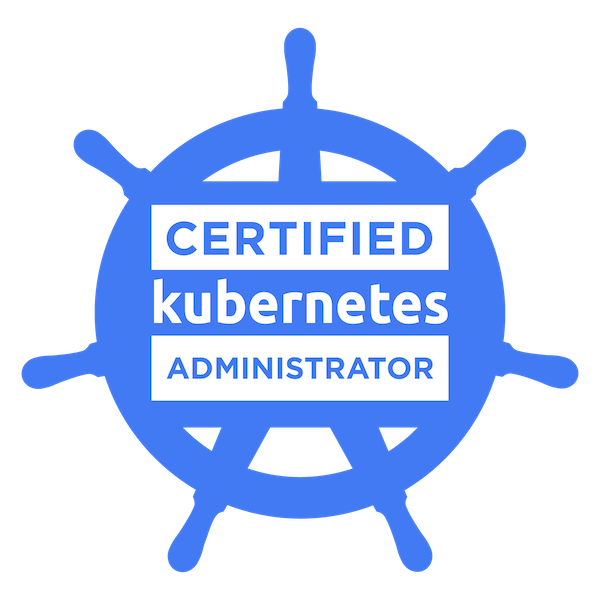
**BAIREDDY JAYASREE**

***DevOps Engineer***

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**Mobile: 5617679912**

**PROFESSIONAL SUMMARY**

* Having good 10 experience in IT industry as a Azure/DevOps with major focus on Cloud Resource Utilization, Source Code Management, Infrastructure Automation, Continuous Integration, Continuous Delivery and Continuous Deployment. 5+ years of experience in DevOps Engineer and 4 Years of experience in QA Testing.
* Experienced in Migrating on premise data center workloads to cloud platforms and created server less architecture using AWS Lambda.
* Developing process automation Powershell DSC 4.0,5.0. Setup and configure pull server, creating custom resources, working with various system modules and configurations
* Highly proficient in AWS Cloud platform and its features which includes EC2, VPC, EBS, AMI, SNS, RDS, EBS, Cloud Watch, Cloud Trail, Cloud Formation, AWS Config, Auto scaling, Cloud Front, IAM, S3, and Route53.
* Knowledge in understanding of the principles and best practices of Software Configuration Management (SCM) in Agile, Scrum, and Waterfall methodologies.
* Hands-on experience in configuration of network architecture on AWS with VPC, Subnets, Internet Gateway and also in creating snapshots and Amazon Machine Images (AMI) of the instances for backup and creating clone instances.
* Experience in provisioning and administering EC2 instances and configuring EBS, S3 cross region replication, Elastic Load Balancer, configure Auto scaling, setting up CloudWatch alarms, Virtual Private Cloud (VPC) and RDS, based on architecture.
* Successfully implemented Chef Infra for configuration management, automating infrastructure provisioning and application deployments.
* implemented automated backup and disaster recovery strategies for MongoDB databases on Azure, ensuring data availability and minimizing potential data loss.
* Experience in maintaining AWS Identity and Access Management (IAM) components including creating users, groups, roles, policies and access control for various AWS services.
* Architect and implement ETL and data movement solutions using Azure Data Factory(ADF), SSIS
* Proficient in creating Cloud Formation templates that describes all AWS resources so that you can spend less time managing those resources and more time focusing on your applications that run in AWS.
* Experience in working with Terraform for automating ELBs, Security Groups, SQS Queues, S3 Buckets, and continuing to replace the rest of our infrastructure.
* Expertise in Azure Development worked on Azure web application, App services, Azure storage, AzureSQL Database, Azure Virtual Machines, Azure AD, Azure search, Azure DNS, Azure VPN Gateway and Notification hub.
* Experience on Server less services and configuring HTTP Triggers in the Azure Functions with application insights for monitoring and performing load testing on the Applications using the VSTS and monitored OMS Log Analytics in Azure Security Center for Trouble shooting the Compute, Storage and Networking.
* Experienced in Shell, Python, Groovy scripting for automation.
* Experience in creating and managing pipelines using Azure Data Factory, copying data, configuring data flow in and out of Azure Data Lake Stores according to technical requirements.
* Experienced in deploying the code through web application servers like Web Sphere, Web Logic, Apache Tomcat, Nginx and JBOSS.
* Implemented Chef Habitat to manage and automate the configuration of applications, ensuring consistency and reducing manual errors.
* SQL programming knowledge and experience with MySQL, Postgres, Casandra, Redis, OracleDB and MongoDB.
* Ability in development and execution of XML, PowerShell, Python, Bash, and Ruby Scripts.
* Experience creating pods and clusters in Kubernetes and deploy those using OpenShift. Good understanding of OpenShift platform in managing Docker containers and Kubernetes Clusters.
* Migration of on premise data (Oracle/ SQL Server/ DB2/ MongoDB) to Azure Data Lake Store(ADLS) using Azure Data Factory(ADF V1/V2).
* Worked on Hudson, Jenkins and Bamboo for continuous integration and for end to end automation for all build and deployments including setting up pipeline jobs and upstream/downstream job configurations in Jenkins.
* Implemented zero downtime deployment process in WebLogic using Python and Ruby, shell script and automated it using integrations tool Jenkins.
* Experience with SQL queries on database platforms such as MySQL, Oracle, and Microsoft SQL Server.
* Architect and implement ETL and data movement solutions using Azure Data Factory, SSIS create and run SSIS Package ADF V2 Azure-SSIS IR
* Deployed and configured Chef server including bootstrapping of Chef client nodes for provisioning and experience in developing Chef recipes through Knife command-line tool through Ruby scripts to create Chef cookbooks to manage systems configuration on Chef Server to initiate Chef Nodes.
* Experience in integrating Ant and Maven build tools with Jenkins in order to automate the build process as a part of continuous delivery.
* Successfully integrated Dynatrace into the existing infrastructure to monitor applications and infrastructure performance.

**Education**

* Bachelor of Technology in Computer Science Engineering from VVIT Guntur, India.

**Skills**

|  |  |
| --- | --- |
| Cloud Environment | Amazon Web Services (AWS), Azure and Google Cloud Platform (GCP). |
| Version Control Tools | GIT, GitHub, GitLab, Subversion (SVN), and BitBucket. |
| Build Tools and Artifactory | Maven, Ant, JFrog and Nexus. |
| Automation & Configuration Tools | Docker, Jenkins, Bamboo, Chef, Puppet, Ansible, Salt stack, Terraform Java, Java Development, Grafana, Kabana, Nagios, Prometheus. |
| Orchestration Tools | Kubernetes, Docker swarm, Apache Mesos, Marathon and Google Cloud Engine, iOS |
| Application Servers | WebLogic, Apache Tomcat, JBoss, WebSphere and Nginx. |
| Networking Protocols | TCP/IP, DNS, DHCP, Cisco Routers/Switches, WAN, LAN, FTP/TFTP and SMTP, ADF |
| Bug tracking and monitoring Tools | JIRA, Bugzilla, Nagios, Cloud Watch, Splunk, ELK and SonarQube. |
| Scripting Languages | Shell Scripting, Python, Ruby, Perl, Yaml, Node.js and Groovy. |
| Operating Systems | Linux (Red Hat, CENTOS & SUSE), Ubuntu, Solaris, DEBAIN and Windows, Data Base. |

**Certifications**

* Certified Azure Administrator Associate.
* Certified AWS Developer Associate.
* Certified Kubernetes Administrator.

**Work Experience**

**Sr. DevOps Engineer Jul 2022 – Till date**

**ELI LILLY, Indianapolis, Indiana**

**Responsibilities:**

* Create CI/CD pipelines for the deployment of web applications to AKS Cluster using Azure DevOps and Helm Charts.
* Involved in Build and Release Management of Multiple Projects, Setting up Branching and Release Strategies, Tagging Stories, and Branches for Releases.
* Worked on the Deployment, Configuration, Monitoring and Maintenance of OpenShift Container Platform.
* Used Docker, Kubernetes and OpenShift to manage micro services for development of continuous integration and continuous delivery.
* Created and managed Azure resources such as virtual machines, storage accounts, and networking components to support MongoDB deployment.
* Create Value files based on test deployments done on test clusters and elevate them to production clusters.
* Install and configure ELK stack on the environment to ship logs from applications hosted on a cluster
* Configured and automated the Azure DevOps Pipelines & Jenkins Pipelines/Build jobs for Continuous Integration and Promote Deployments from Dev to Production environments.
* Experienced with cloud Azure DevOps, Azure Databricks setup, Databricks cluster creation, VNet setup, instance setup, creating snapshots.
* Point team player on Openshift for creating new Projects, Services for load balancing and adding them to Routes to be accessible from outside, troubleshooting pods through ssh and logs, modification of Buildconfigs, templates, Imagestreams, etc
* Managed and administered Splunk Enterprise, including the installation, configuration, and maintenance of Splunk instances.
* Setup Bugzilla on Linux VM to keep track of bugs in deployment cycle and environment issues.
* Created an automation script to take backup of Bugzilla data at night and store the backups on a specific storage location.
* Enabled security parameters by using ACL and encryption keys.
* Worked on continuous integration and continuous delivery jobs for several teams in all environments using shell, Groovy for Jenkins and GitHub Actions
* Creation of CI/CD pipelines to integrate with vault and retrieve secrets to be used in pipeline jobs.
* Worked on automating cron jobs which aid in scheduling dev, model, and prod jobs and disables the job after execution, as self-service to developers.
* Developed Chef recipes and cookbooks for configuring various servers, ensuring consistency and repeatability across environments.
* Managed the backup and automation techniques by writing PowerShell scripting.
* Provide technical consultation and delivery services to customers for CI/CD and DevOps initiatives.
* Worked in container-based technologies like Docker, Kubernetes and Openshift.
* Restricted user access/service accounts access over jobs on Jenkins using Assign and managing roles for security purposes in development and test environments.
* Application onboarding and maintenance on the CI/CD platform.
* Monitoring and maintaining disk space issues on nodes connected to Jenkins for dev and test environments.
* Perform regular health checks and monitor performance of the Apigee environment
* Docker has been core to this experience, along with Kubernetes
* Generated reports on Jenkins for jobs executed for each channel of business for a period in aiding metrics review.
* Creation of hooks on Bitbucket repositories in aiding to automation of Jenkins jobs.
* Implement Golang program to masking the user sensitive information before send out to big data system.
* Configured Load Balancers, Listeners, Target Groups for our Projects.
* Installation, administration and maintenance of CI/CD applications: Jenkins, Artifactory, SonarQube, Stash and Docker.
* Export code and notebooks from the Azure Databricks workspace using the Azure Databricks workspace CLI.
* Integrated Docker with Jenkins using CloudBees Docker plugin to automate container deployment. Wrote Docker Compose files in YAML for managing whole life cycle of multi container aplications.
* Creates automation and deployment templates for relational and NoSQL databases (standalone and RDS), including MSSQL, MySQL, MongoDB, Redis and Neo4j.
* Container management using Docker by writing Docker files and set up the automated build on Docker HUB and installed and configured Kubernetes.
* Integrated Sonarqube SAST and Fortify analysis in all Azure DevOps/Jenkins jobs.
* Develop Golang for microservice on interact with devices, big data and database with Ruby on Rails and frontend by REST API.
* Utilized scripting languages (e.g., Python, Bash) to automate repetitive tasks and streamline Splunk operations.
* Configuring Azure Key Vault services to development teams for handling secrets in dev, test, and production environments using both UI and CLI in Jenkin jobs.
* Imports the Data using Sqoop from various source systems like Mainframes, Oracle, MySQL, DB2 to Atlas Data Lake Raw Zone.
* Investigated and resolved issues related to Chef Infra runs and configuration drift, ensuring minimal downtime.
* Created Jenkins file pipeline as code for CICD deployment using groovy scripting. Integrated Jenkins with Gitlab for code commits, trigger builds and poll SCM.
* Use of Docker and Kubernetes to manage micro services for development of continuous integration and continuous delivery.
* Write terraform scripts for Cloudwatch Alerts.
* Configuring on-prem servers on Jenkins to aid in dev and test deployments for several teams, managing and maintaining credentials on Jenkins.
* Designed and optimized database schema for MongoDB on Azure, enhancing performance and ensuring data integrity.
* Installs, configures, manages and administers queries in relational databases like MySQL, PostgreSQL, and MS SQL Server.
* Monitoring and analysis of Kubernetes pods logs using Elasticsearch by deploying Filebeat as a DaemonSet.
* Automation scripting using Bash, Perl, Python, Golang, Java, Perl, Python, Ruby, Nodejs, Golang, Scala, Java and/or Powershell to support the services etc..
* Assisted in ensuring systems' compliance with security policies and best practices by implementing security hardening through Chef Infra.
* Developed application packages using Chef Habitat, packaging applications and their dependencies for easy distribution and deployment.
* Wrote Jenkins file as pipeline as code using groovy scripting.
* Automate Datadog Dashboards with the stack through Terraform Scripts.
* Develop code and unit tests in an Azure Databricks notebook or using an external IDE.
* Work with the product vendor on issue resolution and enhancements
* Assist in cloudbees Jenkins, Jfrog Artifactory and IBM Udeploy configuration in CI/CD pipeline
* Worked on Groovy Script multiple stages to deploy the application in lower environments.
* Responsible for implementing monitoring solutions in Ansible, Terraform, Docker, and Jenkins.
* Created Bitbucket projects and repositories based on the taxonomy standards set by the architecture department. Migrated repositories and Jenkins jobs from git, svn to bitbucket
* Experience with container-based deployments using Docker, working with Docker images, Docker hub and Docker registries, installation and configuring Kubernetes and clustering them.
* Certs monitoring on various applications maintained on Cloud to keep check of expiring certs and renewing them to avoid application failure.
* Kept abreast of Splunk best practices, new features, and updates through ongoing self-study and participation in relevant training.
* Developed CI/CD system with Jenkins on Google's Kubernetes container
* Using Golang to revamp the production log files transfer program to meet the security requirement.
* Configured Azure VM & EC2 instances and launched the new instances with the same configuration using AMIs.
* Provisioned VM & EC2 instances of different types by creating security groups and managing EBS volumes.
* Deploy the artifacts to staging and Production environments from artifact tools like ECR, ACR. Build the docker image, publish it to a DTR repo.
* Environment, utilizing Kubernetes and Docker for the runtime environment for the CI/CD system to build and test and deploy
* Monitor the deployed applications using performance monitoring tools like ELK and Grafana.
* Created alarms and trigger points in Cloud Watch based on thresholds and monitored the server’s performance, CPU Utilization, disk usage in Dev and test environments.
* Configured and customized Dynatrace monitoring solutions to meet specific application and business requirements, ensuring optimal performance tracking.
* Monitors the Kubernetes Cluster jobs and performance.
* Working on upgrading Kubernetes cluster, commissioning & decommissioning of Nodes, Pods
* **Environment**: Jira, Confluence, Bitbucket, Jenkins, AWS Cloud (VPC, EC2, S3, Autoscaling, ECS, CloudWatch, Elasticsearch), Azure Cloud (VM, Blob, VMSS, VNET, AKS), Cloudbees, Golang, Kibana, Apigee, Linux, Windows, Terraform, Python, shell scripting, GitLab CI/CD, Kubernetes, Vault, Shell scripting, YAML, TCA, Linux – RHEL, Grafana, azure databricks, azure data factory, cosmos DB, azure pipelines, azure function app

**Sr. DevOps Engineer Feb 2021 – Jun 2022**

**AMAZON, Seattle, WA**

**Responsibilities:**

* Automated Build and Deployment process-setup Continuous Integration and Continuous Deployment of applications onto different environments like Dev, QA, and Production.
* Designing, deploying and maintaining the application servers on AWS infrastructure, using services like EC2, S3,S3 Glacier, VPC, Lambda, Route53, SQS, IAM, Cloud Front, RDS, EKS, ECR and CloudFormation etc.
* Implemented the various services in AWS like VPC, Auto Scaling, S3, Cloud Watch, EC2.
* Worked with the different instances of AWS EC2, AWS AMI’s creation, managing the volumes and configuring the security groups.
* Experience in creating AWS AMI, have used HashiCorp Packer to create and manage the AMI's.
* Developed Chef Recipes to configure, deploy and maintain software components of the existing infrastructure.
* Deployed Docker Containers in AWS platforms for containerization of multiple applications, dockerized application which included packaging, tagging and pushing the image to the Jfrog Artifactory.
* Used Maven to build artifacts from source code checked out from Subversion repository, with Jenkins and Artifactory as repository manager.
* Develop, implement, and maintain automated processes using System Center and PowerShell or equivalent scripting language
* Experience in setting up CI/CD pipeline integrating various tools with CloudBees Jenkins to build and run Terraform jobs to create infrastructure in AWS.
* Implemented automation of AWS infrastructure via Terraform and Integrated with Jenkins for Deployments.
* Worked on the Cloud Watch to monitor the performance environment instances for operational and performance metrics during the load testing.
* Management and monitoring of cloud resources and services in AWS using CloudWatch.
* Worked on Auto Scaling for providing high availability of applications and EC2 instances based on a load of applications by using Cloud Watch in AWS.
* Create and manage the Azure & AWS cloud infrastructure for applications from various channels in the organization using Terraform.
* Set up monitoring tools to track Chef Infra runs and generate reports for auditing and troubleshooting purposes.
* Implemented MongoDB databases on the Azure cloud platform, leveraging its scalability and flexibility to meet application demands effectively.
* Orchestrated application deployments using Chef Habitat, simplifying the deployment process and ensuring consistency across environments.
* Designed the data models to be used in data intensive AWS Lambda applications which are aimed to do complex analysis creating analytical reports for end-to-end traceability, lineage, definition of Key Business elements from Aurora.
* Worked with the AWS S3 services in creating the buckets and configuring them with the logging, tagging and versioning.
* Created the trigger points and alarms in Cloud Watch based on thresholds and monitored logs via metric filters.
* Used JFrog Artifactory to store and maintain the artifacts in the binary repositories and push new artifacts by configuring the Jenkins project using Jenkins Artifactory Plugin.
* Administering Puppet enterprise across Cloudbees Jenkins and IBM UCD cluster in automating the Build server software deployment, Java upgrades and Application agent upgrades etc.
* Maintained Beats using Elasticsearch Centralized Beats Management Console.
* Used the AWS-CLI to suspend an AWS Lambda function. Used AWS CLI to automate backups of ephemeral data-stores to S3 buckets, EBS using Boto3
* Managing the Openshift cluster that includes scaling up and down the AWS app nodes.
* Experience on Continuous Integration and Continuous deployment using various CI tools like Jenkins, Hudson and automating deployments using Continues Integration tools like Jenkins on Application Server JBOSS and Tomcat.
* Using the Docker file containers has run for the MongoDB and linking it with new container which will be the client container to access the data.
* Provide in-depth noledge of Cloudbees Jenkins, Artifactory.
* Mirrored the Docker images required for Spinnaker from external registry to private Docker Registry.
* Proactive analysis of security escalations as well as threat hunting integrating Elasticsearch with NetFlow.
* Experienced in maintaining containers running on cluster node are managed by OpenShift Kubernetes.
* Maintained Single and Multi-container pods storage inside a node of OpenShift (Kubernetes) cluster.
* Planning, implementation and testing of new Data Centre for Disaster Recovery migrations, involved in an Agile/ Scrum environment and daily stand-up meetings.
* Configured Groovy script to deploy the application in Apache tomcat server.
* Operated on several prototype OpenShift projects involving clustered container orchestration and management.
* Update Maven scripts to use Artifactory repo instead of local repositories.
* Worked on the AWS IAM service and creating the users & groups defining the policies and roles and Identify providers.
* Worked with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Wrote Jenkins file as pipeline as code using groovy scripting.
* Deploying applications on AWS cloud platform using OpenShift and other Devops tools.
* Used OpenShift for Docker file to build the image and then upload the created images to the Docker registry.
* Created Jenkins on top of Kubernetes in team environment to remove dependencies on other teams.
* Cloud infrastructure maintenance effort using a combination of Jenkins, Ansible and Terraform for automating CICD pipeline in AWS.
* Experienced with event-driven and scheduled AWS Lambda functions to trigger various AWS resources.
* Automated the web application testing with Jenkins and Selenium.
* Automated the continuous integration and deployments CI/CD using Jenkins, Docker, Ansible and AWS Cloud Templates.
* Used Jenkins pipelines to drive all micro services which builds out to the Docker registry and then deployed to Kubernetes by Creating Pods and managed using Elastic Kubernetes Service (EKS).

**Environment**: Amazon Web Services, EKS Kubernetes, Jenkins, Ansible, Kubernetes, Python, Jira, Web logic, UNIX, VMware, Artifactory, Shell, Perl, JSON, Docker, Openshift, Git, Cloudbees, GitHub, Bitbucket, ELK, S3, RDS, EBS, Amazon Aurora, VPC, Route 53,ELB, Amazon Redshift, AWS IAM.

**DevOps/ Engineer Oct 2019 – Jan 2021,**

**Bank Of America,Dallas, Texas**

**Responsibilities:**

* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using AWS Cloud watch and used Amazon Glacier for archiving data, Amazon RDS to manage, create snapshots, automate backup of database and used Route53 with latency options for high availability and fault tolerance.
* Configured applications that run multi-container Docker applications by utilizing the Docker-Compose tool which uses a file configured in YAML format and Docker for the runtime environment of the CI/CD system to build, test and deploy.
* Created Chef Recipes - Concept of Test-Driven Development for Infrastructure as a Code to other environments with setting up Chef Infrastructure, creating and uploading recipes, node convergence in Chef SCM.
* • Architect and implement ETL and data movement solutions using Azure Data Factory(ADF), SSIS
* Configured multiple platform servers using Puppet and used Core and Custom Resources in Puppet Manifests to make the dependencies in the classes and also defined site-specific and global variables using Puppet hiera.
* Used Puppet for automating Continuous Deployment (CD) and implemented infrastructure automation through Puppet for auto provisioning, code deployments, software installation and configuration updates.
* Written custom scripts using Python, Perl & Shell (bash, ksh) to automate jobs and also used shell scripts and Perl scripting to take backup oracle database.
* Used Jira, Crucible bug tracking tool for both hosted and local instances for issue tracking, workflow collaboration and tool-chain automation.
* **Environment**: AWS, Redshift, Glue, Lambda, Cloud Formation, Docker, Docker Volume, snapshot, Git, Maven, Nexus, chef, puppet, Jenkins, SVN, Jira, Crucible, Nagios, Cloudwatch, Tomcat, JBOSS, Terraform, WebLogic, Nginx, Ruby and Python.

**Build and Release Engineer July 2018 – Sep 2019**

**Cumberland Insurance, Bridgeton, NJ**

**Responsibilities**:

* Installation and configuration of Red Hat Enterprise LINUX servers Ubuntu, Centos on remote servers and desktop servers.
* Participated in the release cycle of the product which involved environments like development, INT, QA, UAT and production.
* Extensively worked with version control systems like GIT, Perforce version and Subversion control systems.
* Resolved conflict of the branching and merging of the code line while using the GIT and subversion tools.
* Managed source control repository in subversion- controlling and monitoring check-in's & create tags for builds.
* Developed build and deployment scripts using Ant as build tool in Jenkins to move from one environment to other environments.
* Installed Maven and implemented Maven builds to automate artifacts like jar, war and ear and managed Nexus to download the artifacts during the build.
* Worked on creation of Puppet manifests files and slave/node architecture. Written manifests/Recipes and Ruby scripts to customize the Puppet/Chef as per our environment.
* Performed setup of clustered environment with Apache Tomcat application server and used Puppet to configure and maintain tomcat servers.
* Performed merging from development to parent branches prior to building the code.
* Worked on various scripting language like Bash, Shell, Perl and Python for compilation deployment
* **Environment**: GIT, Perforce, Puppet, Subversion, Nexus, Ant, Maven, Jenkins, Bamboo, JIRA, Bugzilla, Junit, HP QC Apache Tomcat, Shell Script, Perl Scripts, Unix/Linux, Windows XP and Red Hat Enterprise.

**Addis InfoTech, Gujarat, India July 2013—May 2017**

**QA Testing**

**Responsibilities:**

* Performed Manual/Automated tests via navigation and workflow of the application.
* Writing and reviewing test cases to validate the functionality of all the modules.
* Designed Test scripts using Quality Center.
* Integration testing of all the features and functionalities.
* Regression testing of the various builds of the application manually.
* Analyzing reports and suggesting changes in the application and monitoring them.
* Sending Issues to manager by tracking the bugs.
* Performing system testing on each build.
* Coordinating between clients, developers, team members and review meetings.
* **Environment**: Manual testing, Quality Center, HTML, XML, JavaScript, Windows.