**Takuntor Fred**

**Location: Charlotte, NC**

**US Citizen**

**FREDTAKU@GMAIL.COM**

**Education / Certifications**

* **B.Sc. Economics, University of Buea 2005 – 2008**
* **RHCSA (Red Hat Certified System Administrator - Red Hat 9), Red Hat**
* **RHCSA (Red Hat Certified System Administrator - Red Hat 8), Red Hat**
* **RHCSA (Red Hat Certified System Administrator - Red Hat 7), Red Hat**
* **Red Hat Certified Specialist in Ansible Automation (EX407 V27K), Red Hat**
* **RHCE (Red Hat Certified Engineer (Red Hat 7)), Red Hat**
* **AWS Certified Devops Engineer Professional, AWS**
* **AWS Certified Solutions Architect - Associate, AWS**
* **CCNA (Cisco Certified Network Associate), Cisco**
* **CompTIA A+, CompTIA**

**Experience**

**Python/Ansible Network Engineer @US Tech Solutions @Duke Energy – Charlotte, North Carolina Oct 2024 – April 2025**

* Part of the NERC (North American Electric Reliability Corporation - NERC) compliance team. Mostly writing ansible playbooks and roles to automate reporting for compliance on thousands of Duke energy cisco switches, routers, Nexus devices and OpenGear platforms.
* Design/ create ansible playbooks/roles/collections blueprints to automate compliance reporting, digital twin mirroring and facilitate change management processes.
* Also helping with migrating their current instance of Ansible Tower to AAP – not completed yet.
* Designing/writing/modifying custom python code (Example = ciscoconfparse) to help with parsing and reporting of network output data.
* Recently designed and wrote ansible roles/playbooks to automate the replacement of decommissioned tacacs servers (tacacs = Terminal access control access control) across more than 7000 devices (routers, switches and OpenGear devices). Working with a lot of networking commands and terminologies.
* Contributing python code for designing and building nautobot platform here at Duke Energy.
* Create ansible Playbooks to automate nautobot jobs to update nautobot system source of truth.
* Wrote Ansible playbooks and custom ansible modules (python code) to design the build and automation of self healing remediation system through servicenow.
* Wrote a lot of ansible playbooks and collections code to automate servicenow operations and other API systems for reporting and audit process.
* Build and managed Gitlab CI/CD process for ansible template digital twin mirroring, software validations, updates and change management reporting and compliance.
* Developed custom python scripts to automate Nautobot job integration to CI/CD pipelines via custom APIs.
* Build a lot python/Django APIs to develop custom modules for ansible. A lot of this code was to refine retrieved data sources for ingestion into other interfaces/databases for reporting and compliance queries.
* Develop custom Nautobot jobs/plugins with python/ansible scripting using network connection modules like napalm, netmiko and ansible netcommon.network\_cli..

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| |  |  | | --- | --- | | **Ansible Engineer - contract,**  **TRIANZ @IBM CANADA @ Government of the State of Quebec-CANADA** | **04/2024 - 09/2024** |  * This was a short-term contract to design, create and write ansible playbooks/roles to deploy multi-tier distributed cluster of Netcool application for Hydro Quebec (Energy provider for Canada and parts of USA). |
| |  |  | | --- | --- | | **Ansible Engineer,**  **OPEN SYSTEMS TECHNOLOGIES (@ CIGNA)** | **01/2024 - 04/2024** |  * As a member of Cigna Ansible DevOps Team - Cigna is acquiring a couple of other United Sates health vendors and I was responsible for migrating the legacy (newly acquired companies) Ansible Tower (AAP) installations to Cigna's AAP Instance. * Worked on building ansible execution environments to meet customers requirements * Updated Ansible Execution Environments to meet new Python3.8 requirements across CIGNA AAP platform (Red Hat is ending support for python 2 in June 2024). * Wrote extensive python code and ansible custom modules to support ansible automation for client legacy projects as part of the migration efforts * Created ansible playbooks and wrote ansible collections and integrated automation steps into Cigna's Dveops pipeline (including documentation on module and collection usage) - including automating publishing custom collections to automationhub. |
| |  |  | | --- | --- | | **Ansible Engineer,**  **Mindlance (@WWT @ABB)** | **09/2023 - 12/2023** |  * When I joined ABB (as a WWT contractor), ABB had recently migrated from Ansible Tower to Ansible Automation Platform (AAP). The migration didn't go well and a lot of their AAP ansible objects were not running successfully. A lot of failures after migration. I was brought in to troubleshoot and fix that as much as possible. * My discovery for a lot of the issues was that the migration did not fully migrate all Ansible Tower objects over to AAP. So I had to go in and dig in to troubleshoot, recover and fix objects that were not fully migrated. * Example: On one instance, I found that some of the ansible templates were failing because the migration failed to sync up with their AWS platform correctly and so did not sync their AWS inventory through dynamic inventory. * Another instance I found was that some vault credentials were not properly migrated so Ansible code was failing because ansible did not have those credentials to decrypt certain encrypted variables. * What I'm saying here is that this role was a lot of troubleshooting the failures in ansible automation platform jobs after migration. |
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| |  |  | | --- | --- | | **Python-Ansible Software Engineer,**  **INNOMETHODS CORPORATION @ Wells Fargo** | **01/2023 - 06/2023** |  * Wrote Python ETL engineering code mostly for reporting in Grafana * Designing python module structures and deployment workflows for integration with git and Jenkins and ansible tower for automated build process. * Using python pymssql, cx\_oracle and pyodbc - for table/view creation - backend SQL server - for the data engineering team. * Python code testing - python testing frameworks. * Writing Python code to make API calls - API calls mostly to generate email reporting and loading data for Grafana reporting. * Coding IDEs - VSCode, PyCharm, vim. * Modules used include Pandas, Namedtuple, csv, python Request Module, StringIO etc * Writing custom ansible modules (these modules are written in python and bash) * Writing ansible templates, ansible roles, ansible collections and creating templates and workflows in Ansible Tower and running Tower jobs. * Troubleshooting ansible tower job run failures and Linux/networking system issues. * Python code refactoring and performance testing/review. |
| |  |  | | --- | --- | | **Linux Ansible Engineer - contract,**  **ABACUS** | **10/2022 - 12/2022** |  * Install/configure Redhat7/8 VMs on VMware vSphere. * Install/build Kubernetes cluster from scratch. * Install AWX/Ansible Tower Clusetr using AWX operator * Wrote highly parameterized ansible playbooks to help with automating the install of Kubernetes clusters. * Set up Configuration as code from scratch to help with legacy project migration to new AWX Ansible Tower. * Wrote documentation to guide engineers on how to support new AWX/Ansible Tower cluster in Kubernetes. * Install/configure/manage Single instance vSphere 7.0.3 with multiple ESXI hosts. * Created resource pools in vSphere for resource segregation and allocation. * Created templates to standardize/automate installation of VMs in vSphere 7.0.3 * Wrote ansible playbooks with terraform integration to help with automating the VM builds. * Integrated vSphere with ansible tower for automated VM builds. |
| |  |  | | --- | --- | | **Senior Ansible Engineer,**  **CITIBANK** | **03/2020 - 08/2022** |  * Install, configure and administer Ansible Tower/AWX and Ansible Automation Platform (Automation Controllers, Automation Mesh, AutomationHub) * Wrote more than 200 ansible playbooks and custom ansible modules for automation requirements. * Architecting, developing & implementing Ansible Automation solutions * Designing and implementing ansible environment architectures, including how ansible tower integrates with third party applications; Hashicorp Vault - to store playbook secrets; Jenkins * to run CICD pipelines, SCMs to store automation content; service now - to programmatically pool inventory hosts from CMDB; Splunk - for log aggregation * Developing Ansible Collections and custom execution environments for storage and sharing via Private AutomationHub * Deploying Postgres databases for use as externally managed databases for Ansible Automation Platform and AutomationHub Performing and deployment/upgrade of Ansible Automation Platform (AAP) 2.2, and PostgreSQL server deployment * Integrated AAP2.2 with GitHub and Active Directory. * Developing ansible custom modules, Python and Shell scripts when Red Hat or community ansible modules are not available * Troubleshooting and resolving Ansible and Ansible Automation Platform issues/incidents and playbook failures * Assisting Ansible users leverage the Ansible to automate IT tasks, processes and workflows. * Training new ansible users on how to develop playbooks and run them on the Ansible Automation Install vmware/vsphere from scratch and integrate with ansible and terraform for VM build automation. * Create GitLab Pipelines (Gitlba-ci.yml) * Integrate GitLab with servicenow for payload delivery and automation of server builds and CMDB configuration managemenyt. Expert in ansible playbook development (Ansible Core 2.8/2.9). * Expert in ansible engineering, ansible tower installation and engineering (instance groups, isolated nodes, ssh-proxy/jumphosts, ssh certificates, job slicing, smart inventory etc) * Expert in Ansible Tower 3.8 * Expert in RedHat 7/6. * Expert in Python and bash scripting * Expert in troubleshooting RedHat6/7 issues and ansible playbooks. |
| |  |  | | --- | --- | | **Principal Linux Engineer/Ansible Automation Engineer,**  **Charter Communications** | **09/2017 - 03/2020** |  * Configuration Management: Ansible, Puppet (we are doing away with puppet - so less use here for the past 2 years). * Patching and server updates: RedHat Satellite server and IBM BigFix * Scripting/Programing/Configuration Management: Python, bash, C, Ansible and puppet * Server build Engineer. Both physical and virtual. We use VMware and Oracle VM manager for virtualization. * Embedded development: creating customized initramfs, mkinitrd/mkinitramfs, mksquashfs, wraplinux/Dracut PXE/ipxe for network boot deployments. * RPM Builds with rpmbuild, and python bdist\_rpm * Develop ansible playbooks/roles to automate various processes and migration efforts. * As part of the UNIX team, I provide support for a portfolio of other departments like the collaboration tools group and Hadoop groups and charter AWS footprint. * I support servers running Hadoop clusters. * I do a lot of migrations, troubleshoot system/server/application issues, patches/updates/upgrades and VM builds. * Build, deploy, support Charter AWS VPC footprint across multiple regions and availability zones. I use cloud formation and ansible to automate build engineering in AWS. * Build, deploy and support Amazon AWS Kinesis, ECS/ECR for Charter AWS data streams and code testing and deployment process. * Monitor AWS applications using CloudWatch, flow logs and AWS CloudTrail. * Automate AWS monitoring and build processes and other on prem resources utilized by Charter Mobile. * Troubleshoot and resolve issues relating to Charter AWS footprint and VPCs. * Provide server/platform support for the collaboration tools used at Charter running on RHEL 6 and 7. These tools include JIRA, Confluence, bitbucket, Crowd, testrail etc. * Automation with scripting in Bash/python for system monitoring and alerts. * Troubleshoot and resolve system issues as well as work with Atlassian vendor to help resolve issues. * Build and deploy physical servers (mostly super micro servers). These servers are part of the Hadoop cluster systems that I support. * Provide support for Cloudera Hadoop (integrate cloudera with Kerberos-spnego, cloudera dataNode expansion, hive backups, ansible builds/deploy of cloudera components like zookeeper, hive, spark, solr etc). * Build/Configure/Manage systems/VMs (VMware) for production, testing/development. * Utilize Ansible for configuration management, automation and migration. We recently migrated our entire data center servers using ansible. * Write Splunk queries and build Splunk dashboards for charter teams to help with troubleshooting root cause issues. * Implement monitoring tools for JIRA, Confluence and Bitbucket. We use AppDynamics, Splunk, solar Winds. * Currently working on migrating our servers to new data centers. * Also upgrading and migrating Splunk and AppDynamics. We are moving to version 7.0.2 of Splunk. * Part of my efforts have also been to help with consolidating charter resources into a single system. * This effort requires partnering with other IT teams/groups as we implement corporate wide changes such as 2FA, corporate wide access to apps, other consolidation efforts etc. * Routine Linux application testing/upgrades; new product evaluation and system impact analysis. * Also perform routine system administration for Linux servers/VMs. * Provide teams and stakeholders with documented guidance on integration. * Implement Atlassian Tools upgrades, and partner with other IT staff to coordinate infrastructure maintenance and system migrations. * Provide User Management and support for local and remote users, manage system access across groups to ensure compliance, and maintain best practices. * We have over 70000 users and 100000 licenses in JIRA and Confluence. * Coordinate production releases and send release status to relevant distribution list * Monitor external system updates that could impact on Technology Services software solutions, identifies risk, and coordinates testing for mitigation. * Coordinate the delivery of all software releases. |

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| |  |  | | --- | --- | | **Senior Infrastructure Engineer (Linux/Unix/Networking),**  **Premier Inc. Charlotte NC** | **01/2017 - 07/2017** |  * Work/experience include RedHat 6/7 server builds, a lot of data center migration, Scripting (mostly in python/bash), troubleshooting system hardware and software, VMware ESX environment, super micro servers, Vmturbo for generating system reports and managing VMware resources, VMware Orchestrator (for server builds), EM7 (Science Logic) for monitoring and system reports. * Hardware RAID configuration (MEGA RAID package manager) and multipathing. * Network re-ip management with infoblox DNS. * Kickstart for Rhel6/7 server installs/systems engineering and VMware support for RedHat Enterprise Linux (Rhel6 & 7). * Done lots of networking work. Creating subnets and Vlans and adding servers to networks, Link aggregation (LACP) for aggregating links, network teaming/bonding of interfaces. * Done a lot of python scripting to stitch things together and automate processes. * Experience developing web interface applications/Python object-oriented design and development with full-stack web-frameworks. * Install, configure and troubleshoot network management applications, SNMP, FCAPS, and SLMs. * Spacewalk/RedHat Satellite server for patching and configuration management. * ServiceNow and HP service Manager for ticketing and Change Management processes. * Data center Migration and Disaster recovery planning, management and execution. * Configure, manage and execute Zerto Virtual Replication. (For Migrations and Disaster recovery) * Single sign on active directory (Centrify) |
| |  |  | | --- | --- | | **Linux Engineer/Python Developer,**  **Bank of America Production Support** | **04/2016 - 12/2016** |   Data Base Management, Deployment and Monitoring   * Toad for Data analyst to run queries and trouble shoot Oracle database issues for production support. * Teradata SQL Assistant for Teradata access and resolving Teradata job flow issues. * SQL Server Management Studio in supporting MS SQL database processes for production support. * -Informatica Power Center Tools in support of ETL processes for Bank of America Data flows * BMC Blade logic for managing/troubleshooting apache tomcat instances, JVMs and Oracle WebLogic server. * Python/Bash Scripting for automation and monitoring system processes. * Geneos ITRS to monitor linux servers, database job runs as well as general system metrics.   Linux Engineering Level IV   * Utilize VMware ESXi Virtualized environment for server build, clustering, HA and DRS.-Design and build * Rhel6 servers from RedHat KickStart templates. * Troubleshoot system server issues in support of all production support processes. * Create technical documentation and SOPs for BoA Production support jobs. * Work/coordinate with data base admins/network engineers and business users to determine root cause analysis of production support issues. * Provide technical guidance and support for System wide Disaster Recovery (wide IP failover) exercises and processes for BoA applications and Data Centers * Debug/modify python/bash scripts for managing enterprise job flows. * Manage/upgrade/troubleshoot applications running on Windows server (version one). * Initiate, manage and update change management procedures, incident management/problem tickets and implementations schedules.   Ticketing, Project Management and Documentation   * Utilize Service Now for incident/trouble ticket management * JIRA Engineer/administrator for Bank of America Enterprise Capital Management. * Confluence Engineer/administrator for Bank of America Enterprise Capital management. * Version One Engineer/administrator providing support for more than 5000 in Enterprise Capital Management. * Utilize Autosys CA iXP for workload automation processing. * BMC remedy for incident ticket creation/management. |
| |  |  | | --- | --- | | **Linux Engineer,**  **Guardian Research Network (GRN) Spartanburg SC** | **09/2015 - 04/2016** |   Linux administrator providing support to a team of ETL developers and database administrators Responsibilities include:   * Rhel6 Infrastructure build: utilize kickstart for Rhel6 server installations. * Utilize Nessus for vulnerability scanning and configuration and compliance checks. * Utilize syslog-ng for security log management. * Install/configure Oracle VM Manager for data center infrastructure management. * Install, configure and build VMs to support Oracle Data Warehouse processing for ETL developers * Utilize Jenkins for CI (Continuous Integration) of ETL code (in this role I provided support to the developers who utilized Jenkins for continuous integration and testing). * Utilize chef/chef provisioning for test driven development and deployment of web application in AWS. * Manage and support AWS applications/web portal for Guardian Research Network. * Manage AWS Virtual Private Cloud (VPC) engineering, S3, Glacier and other tools for data transfer, archiving, and application deployment/hosting. * Utilize puppet to support GRN data center configuration management. (place all critical processes, directories, file systems under puppet) * Install, configure and build XMPP (ejjaberd) server for instant messaging within GRN. * Scripting in python and bash for ETL process support. * Collaborate with project manager, ETL developers and database admins for effective change control management and Disaster Recovery. * Build and migrate servers on Oracle VM Manager and VMWare ESxi 5.0/6.0 * Work with vendors (Oracle/My Oracle support and RedHat) to escalate and resolve issues with vendor hardware and software products. * Perform software and firmware upgrades on system servers and VMs. * Provide daily support to ETL developers including managing various system processes, updating scripts to enable GRN meet HIPPA standards, install and configuring VNC, KNIME, Oracle clients and installing python packages and modules as needed. |
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