Shashank Srivastava

Six months of experience as a Trainee
Associate Technical Support Engineer in Red
Hat Ansible & Ansible Tower at Red Hat
India Pvt. Ltd., Pune

To work on challenging assignments in a
progressive organization that would leverage
my technical experience to the fullest potential
and align my growth with the growth of the organization.

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Summary

An open source technology enthusiast & passionately looking for an opportunity to leverage my skills in the areas of open source IT Technologies where I can work, learn & develop my skills in new technologies and ultimately helping the businesses to achieve their goals using IT technology solutions. Currently focused on latest technologies like Ansible & Ansible Tower, Virtualization, Storage, AWS, Cloud Provisioning, Development & Deployment, Infrastructure Management, Linux System Administration, Dockers & Containers, Big Data & Hadoop Administration, IT Automation & DevOps. A self motivated with good interpersonal skills and problem-solver with ability to learn new technologies within short time.

Technical Skills

- **PLATFORM**: Red hat Enterprise Linux v6/7, CentOS 7
- **CLOUD**: Amazon Web Services(AWS)
- **MANAGEMENT**: Ansible, Ansible Tower
- **ANSIBLE USE CASES & INTEGRATIONS**: Provisioning, Orchestration, Automation, Configuration Management, Application Deployment, Infrastructure Management.
- **ANSIBLE**: Playbooks, Roles, Inventories, Vault, Variables, Conditionals, Templating, Loops, Error Handling, Tags, Prompts, Start and Step, Command Line Tools, Privilege Escalation, Check Mode, Accelerated Mode, Asynchronous Action & Polling, Ansible Galaxy.
- **ANSIBLE TOWER**: Administration, Installation(Standalone, Clustered & Isolated), Backup & Restore, Upgradation, OneLogin SAML Auth, Google OAuth, Github OAuth, LDAP Auth, Tower-CLI, Tower-API, Credentials, Inventories, Projects, Job Template, Jobs, Smart Inventory, Notification Template, Diff Mode, Surveys, Provisioning Callback, Workflow, Mapping Permissions, RBAC.
- **SERVERS**: Apache HTTP, Ngnix, NFS, FTP, Telnet, SSH, SAMBA, NTP, ISCSI, targetcli, SMTP
- **VIRTUALIZATION**: KVM
- **STORAGE**: Gluster Storage
- **BIG DATA**: Apache Hadoop 1.0/2.0, (HDFS,YARN, MapReduce)
- **PROGRAMMING**: HTML , CSS, Python(core), PythonCGI, YAML
- **AMAZON WEB SERVICES**: EC2, S3, ELB, VPC, EBS
- **VERSION CONTROL**: GIT
- **CONTAINERIZATION**: Dockers
- **SECURITY**: SSL/TLS (https), ACL, Firewall (Iptables, Firewalld)
- **COMMAND LINE TOOLS**: AWS - CLI, Ansible Tower - CLI
- **ADMINISTRATION**: User admin, File systems, Security/Permissions, Partition/Volume management.

Projects

➢ **ANSIBLE ENGINE**
Sept. 2017 – Nov. 2017
Project description:

- Server deployment: install, configure & deploy Nginx server on Ubuntu & RHEL, being run against both hosts at the same time using mixed inventory & conditionals.

- AWS Provisioning: used different cloud modules from AWS to provision new VMs. Used roles, loops, registers, jinja templating.

- VMware hosts Provisioning: used different cloud modules from VMware to provision new VMs. Used roles, loops, registers, jinja templating.

- Used windows modules to manage windows machines/hosts demonstrating timezone change, installing windows updates with a reboot, installing packages with win_chocolatey, and adding users and groups.

- Used yum, template, group_vars/, host_vars/, variables, handlers, privilege escalation, to configure NTP server. Used vault to encrypt vars files & demonstrated successful run.

  Project Url - https://github.com/Shashanksr6694/ansible_engine

➢ **ANSIBLE TOWER**
Sept. 2017 – Dec. 2017
Project description:

- Configured Tower-cli and created an RBAC structure in Tower by creating organization, teams, users and assigned roles & permissions via the CLI commands. Created provisioning callback template for an instance to configure itself on AWS. Created a workflow template to chain instance provisioning, web app. deployment inventory update/sync, provisioning callback & server configuration tasks together. Created surveys to populate extra variables in playbooks to allow validation for user input.

- Ansible Tower 3.2 features: Isolated node installation, Importing inventory directly from GIT, Smart inventory using built-in fact cache & Diff mode. Ansible Tower Authentication: Integrated an openLDAP server with Tower, Integrated Tower with oneLogin for SAML authentication, Set up Google OAuth & Set up GitHub OAuth.

- Notification template: Created a slack notification and associate with job template and run job. Job template: Set up a job template and run a job using inventories, projects & credentials. Inventories: Importing static inventory with tower-manage & Importing AWS inventory. Credentials: Created SCM credential for GitHub, Created cloud credential for AWS. Created machine credentials to connect to AWS machines/instances. Projects: Set up a manual project & Sync from GitHub.

- Ansible Tower API activities: Make a POST to update the license, Associate a host to a group, Add admin permissions on an inventory to a user, Create a survey & Launch a job with extra vars.

- Installations: Standalone with internal database & Standalone with external database. Back-up and restore: Back up Tower machine and then restore to a separate instance. Upgrade: Install 2.4.5 and upgrade to latest from 2.4.5 to 3.0.0 to 3.1.5 to 3.2.1. Clustered installation with external database.

  Project Url - https://github.com/Shashanksr6694/ansible_tower

➢ **CLOUD PROVISIONING, IT INFRASTRUCTURE MANAGEMENT, ORCHESTRATION & AUTOMATION USING ANSIBLE**
Jan 2017 – June 2017
Project description:

- Orchestration of Linux servers deployment with configuration management and monitoring on physical resources like - Apache Web Server(HTTP) with the application deployment, MariaDB Database Server, NFS Server, SAMBA Server, SMTP Mail Server, FTP Server on RedHat Enterprise Linux platform using Ansible & Python.

- Setup complete automated Amazon Web Services cloud provisioning of Services like EC2, S3, EBS, ELB, VPC using Ansible and Python.

- Setup complete orchestration of Linux servers deployment with configuration management like -Apache Web Server(HTTP) with the application deployment, MariaDB Database Server, NFS Server, SAMBA Server, SMTP Mail Server, FTP Server on Amazon Elastic Compute Cloud Instances using Ansible.

- Setup complete automation using Ansible to create large distributed replicated, high availability scalable storage using GlusterFS storage technology

    Project Url - https://github.com/Shashanksr6694/Software2017

➢ **HIGH PERFORMANCE DISTRIBUTED SYSTEM USING BIG DATA HADOOP**
Jun 2015 – July 2015
Project description:

- Setup Complete Big Data Hadoop Technology of Multi Node Cluster.
Manage Component of big data for distributed storage HDFS, distributed computing MapReduce , Distributed Scheduling YARN

    Project Url - https://github.com/Shashanksr6694/Big-data-Hadoop-Project

➢ **OWN CLOUD - DEPLOYMENT OF CLOUD SERVICES (SAAS, STASS, IAAS)**
Jun 2014 – July 2014
Project description:

- Developed a web application software to automatically provide the facility of cloud services such as software as a Service(SaaS), Storage as a Service(StaaS), Infrastructure as a Service (IaaS) and performing live migration for high availibilty.

    Project Url - https://github.com/Shashanksr6694/myowncloud

Training/Internships

Trainee Associate Technical Support Engineer at RedHat India Pvt. Ltd., Pune (July 2017 - Dec. 2017)
Courses:
Management: Red Hat Ansible, Red Hat Ansible Tower

Trainee at Adhoc Networks, Jaipur (December 2016 - June 2017)
Courses:
DEVOPS: AWS, Dockers & Containers, Ansible
STORAGE: Gluster Storage Administration
CLOUD: Amazon Web Services(AWS) - AWS CERTIFIED SOLUTIONS ARCHITECT-ASSOCIATE

Trainee at Linux World Informatics Pvt. Ltd., Jaipur (June 2014 - August 2016) Courses:
CLOUD: OpenStack, Own Cloud Development & Deployment
BIG DATA: Apache Hadoop 1.0/2.0
LANGUAGES: Python Core & Shell Scripting
PLATFORM: RedHat Enterprise Linux version 6/7 (RHCSA & RHCE)

Certifications

➢ **Red Hat Certified Engineer** in Red Hat Enterprise Linux version 7
(License 160-128- 674) Certification Date: July 22, 2016 – Aug 16, 2020

➢ **Red Hat Certified System Administrator** in Red Hat Enterprise Linux version 7
Certification Date: Jun 18, 2016 – Aug 16, 2020

https://www.redhat.com/rhtapps/certification/verify/?certId=160-128-674

Educational Qualification

2017   Bachelor of Technology in Computer Science and Engineering from Sam Higginbottom University of Agriculture, Technology and Sciences, Allahabad, Uttar Pradesh with 8.53 CGPA

2012   Sr. Secondary from Vishnu Bhagwan Public School & College, Allahabad

2010   Secondary from Maharashi Patanjali Vidya Mandir School, Allahabad

Personal Details

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Current Address	: Raghavendra Kumar Srivastava 145B/12N Chandpur Salori, Allahabad, Uttar Pradesh - 211004
Date of Birth	: 6th June 1994
Father's Name	: Mr. R. K. Srivastava
Gender	: Male
Marital Status	: Single
Nationality	: Indian
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I do hereby declare that the above information's are true to best of my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place: Allahabad, Uttar Pradesh   Shashank Srivastava