**Shareinsights : Complete deployment using Ansible**

**Prerequisites:**

* Install “sshpass” package on the ansible-host server. The package is located at:

PSL: <http://bigdata.persistent.co.in/SI-devops/7/SI-dependency/rpms/sshpass-1.05-1.el7.rf.x86_64.rpm>

AWS: <https://s3.amazonaws.com/awsbigdatapsl/SI-devops/7/SI-dependency/rpms/sshpass-1.05-1.el7.rf.x86_64.rpm>

* - User “si-install” should be present on all the servers where we need to deploy our components

- Password for the user “si-install” should be same across all these servers.

- “si-install” user must have sudo privileges

* Hostname of all these servers should be Unique and should not contain any special characters.
* The shareinsights tar-ball should be placed in SI server, at a location pointed by a variable “**si\_deployment\_home\_dir**” in “*group\_vars/all*” file.

**Usage:**

* Setup an Ansible host server (CentOS 6 / CentOS 7 / UBUNTU). This server can be shared across multiple users and can have separate workspaces as per one’s requirement
* Log-into the Ansible host server, choose a workspace and extract “*si-ansible-playbook-1.0.tar.gz*”.

(“*si-ansible-playbook-1.0.tar.gz*” is created after executing *./build\_si.sh*)

After extracting, change to directory *ansible\_playbook/shareinsights*

* As per your setup, Add private ip-addresses in their corresponding groups in “*hosts*” file

Update sections (groups) –

|  |  |  |  |
| --- | --- | --- | --- |
| [hadoop] | [ambari-server] | [nagios] | [nginx] |
| [redis] | [elasticsearch] | [vsftpd] | [phantomjs] |
| [appserver] | [postgresql] | [nfs-server] | [nfs-clients] |

Provide private ip-addresses only

* As per your setup ,Modify following entries in “*group\_vars/all*” file

**domain**: Non-Persistent [Persistent - If in Persistent network ;; Non-Persistent – If in Amazon ]

**auth\_scheme**: siauth [possible values are htpasswd, LDAP, siauth, SSO]

**ldap\_server**: ldap://hydc.persistent.co.in [possible values ldap://hydc.persistent.co.in or

ldap://ldap.forumsys.com]

**appserver\_fqdn**: siapp.shareinsights.com [FQDN of the server on which SI is going to be deployed]

**app\_dnsname**: 10.77.46.50 [Public IP address/FQDN of the server on which SI is going to be deployed]

**si\_deployment\_home\_dir**: /data/si-install [SI App installation directory]

**ambari\_server:** 10.77.36.197 [Private IP address of the server on which Ambari-server will be installed]

**nagios\_server**: 10.77.46.50 [Private IP address of the server on which Nagios server will be installed]

**ambariserver\_name**: siambari.shareinsights.com [FQDN of the server on which Ambari-server will be installed]

**namenode\_hostname**: (optional)[FQDN of a specific hadoop node, by default - 1st node in Hadoop group]

**cluster\_name**: si\_test [Name of the Hadoop cluster]

**num\_nodes**: 2 [Number of Hadoop nodes]

* Use below command to start the automated deployment

ansible-playbook -u si-install -i hosts site.yml –k

* To generate detailed verbose logs, append –vvvv to the above command.

**Known Issues and Notes:**

* For VSFTPD to work, the network team needs to open 2221 and 2220 ports for external access.
* If dashboard execution fails in mapreduce mode with a java heap error; Update Map Memory value from “512 MB” to “1024 MB” in Ambari Server UI under “MapReduce2 > configs > Map Memory”.
* Dashboard execution in spark mode currently fails.