Running Ansible playbook using AWS Systems Manager

Pre-Requisities

IAM Role - i.e ManagedInstanceRole - with managed permissions Get Help for setting up IAM Role

AmazonEC2RoleforSSM - To allow Lambda to log events

Prepare Target Instances

Lets use a RedHat 7.x Linux instances as our target instance.

Assign the IAM Role created in the prerequisite

Install SSM Agent

sudo yum install -y https://s3.amazonaws.com/ec2-downloads-windows/SSMAgent/latest/linux\_amd64/amazon-ssm-agent.rpm

sudo systemctl enable amazon-ssm-agent

sudo systemctl start amazon-ssm-agent

sudo systemctl status amazon-ssm-agent

Install Ansible in Redhat 7

sudo rpm -Uvh https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm

sudo yum -y install ansible

Tag the instance

TagKey:OS

TagValue:RedHat

Create SSM State Manager

Choose State Manager from the System Manager Services

Click on Create Association

Name = install-HTTP-On-RedHat

Document name prefix: Equal : AWS-RunAnsiblePlaybook

Select the AWS-RunAnsiblePlaybook

For Targets Choose Specifying tags

Choose appropriate schedule.

In the Parameters Section, paste the playbook YAML directly.

Define the max errors as 1. This means that if the execution encounters 1 error it will stop on the remaining targets.

Testing the solution

Create an adhoc run using the Run Command manually, check the S3 Logs for execution results.

ToDo

Load the playbook into CodeCommit and bring it under version control.

or Use S3 version control for the playbook(s) to be stored.

Ansible Playbook

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# This playbook will install Apache Web Server with php and mysql support

- name: linux\_deploy\_httpd

hosts: all

tasks:

- name: Install HTTPD

yum:

name: "{{ item }}"

state: latest

loop:

- httpd

when: ansible\_os\_family == "RedHat"

- name: Setting default HTTP Server page

shell: echo "<h1>welcome to Zeedup Technologies Playbook Demo</h1>" >> /var/www/html/index.html

- name: Start Apache Webserver

service:

name: httpd

state: restarted

- name: enable apache on startup and start service for redhat or centos

service: name=httpd enabled=yes state=started

when: ansible\_os\_family == "RedHat"