

Draup Assignment

Position - DevOps Engineer

Name - Ankit Kumar

Required Variables

region: ap-south-1

instance_type: t2.micro

ami: ami-02d55cb47e83a99a0

app_code_user: "ubuntu" # remote user

env: draup

counter: 0

pem_key: mumbai-ak # key.pem

subnet: subnet-5693f11a

Command to run

ansible-playbook main.yml --private-key **PEM FILE**

Output SS

```
ankit@ankit:~/draup/elb$ ansible-playbook site.yml --private-key /home/ankit/Desktop/Desktop/key-aws/mumbai-ak.pem
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'

PLAY [A simple Load Balanced AWS server] *****

TASK [Create security group] *****
ok: [localhost]

TASK [Create an EC2 instance] *****
ok: [localhost]

TASK [wait for the servers to appear on the network] *****
ok: [localhost] => (item={'id': 'i-05b8ef05620bcbdbf', 'ami_launch_index': '1', 'private_ip': '172.31.8.44', 'private_dns_name': 'ip-172-31-8-44.ap-south-1.compute.internal', 'public_ip': '13.232.80.11', 'dns_name': 'ec2-13-232-80-11.ap-south-1.compute.amazonaws.com', 'public_dns_name': 'ec2-13-232-80-11.ap-south-1.compute.amazonaws.com', 'state_code': '16', 'architecture': 'x86_64', 'image_id': 'ami-02d55cb47e83a99a0', 'key_name': 'mumbai-ak', 'placement': 'ap-south-1b', 'region': 'ap-south-1', 'kernel': None, 'ramdisk': None, 'launch_time': '2020-07-09T06:09:50.000Z', 'instance_type': 't2.micro', 'root_device_type': 'ebs', 'root_device_name': '/dev/sda1', 'state': 'running', 'hypervisor': 'xen', 'tags': {'env': 'demo'}, 'groups': {'sg-01f33e8066a06dd02': 'demo security group'}, 'virtualization_type': 'hvm', 'ebs_optimized': False, 'block_device_mapping': {'/dev/sda1': {'status': 'attached', 'volume_id': 'vol-07608c81eeba419d3', 'delete_on_termination': True}}, 'tenancy': 'default'})
ok: [localhost] => (item={'id': 'i-0e9e76b94552012e8', 'ami_launch_index': '0', 'private_ip': '172.31.7.107', 'private_dns_name': 'ip-172-31-7-107.ap-south-1.compute.internal', 'public_ip': '13.233.255.231', 'dns_name': 'ec2-13-233-255-231.ap-south-1.compute.amazonaws.com', 'public_dns_name': 'ec2-13-233-255-231.ap-south-1.compute.amazonaws.com', 'state_code': '16', 'architecture': 'x86_64', 'image_id': 'ami-02d55cb47e83a99a0', 'key_name': 'mumbai-ak', 'placement': 'ap-south-1b', 'region': 'ap-south-1', 'kernel': None, 'ramdisk': None, 'launch_time': '2020-07-09T06:09:50.000Z', 'instance_type': 't2.micro', 'root_device_type': 'ebs', 'root_device_name': '/dev/sda1', 'state': 'running', 'hypervisor': 'xen', 'tags': {'env': 'demo'}, 'groups': {'sg-01f33e8066a06dd02': 'demo security group'}, 'virtualization_type': 'hvm', 'ebs_optimized': False, 'block_device_mapping': {'/dev/sda1': {'status': 'attached', 'volume_id': 'vol-0ca2152f83da16ae6', 'delete_on_termination': True}}, 'tenancy': 'default'})
changed: [localhost] => (item={'id': 'i-05b8ef05620bcbdbf', 'ami_launch_index': '1', 'private_ip': '172.31.8.44', 'private_dns_name': 'ip-172-31-8-44.ap-south-1.compute.internal', 'public_ip': '13.232.80.11', 'dns_name': 'ec2-13-232-80-11.ap-south-1.compute.amazonaws.com', 'public_dns_name': 'ec2-13-232-80-11.ap-south-1.compute.amazonaws.com', 'state_code': '16', 'architecture': 'x86_64', 'image_id': 'ami-02d55cb47e83a99a0', 'key_name': 'mumbai-ak', 'placement': 'ap-south-1b', 'region': 'ap-south-1', 'kernel': None, 'ramdisk': None, 'launch_time': '2020-07-09T06:09:50.000Z', 'instance_type': 't2.micro', 'root_device_type': 'ebs', 'root_device_name': '/dev/sda1', 'state': 'running', 'hypervisor': 'xen', 'tags': {'env': 'demo'}, 'groups': {'sg-01f33e8066a06dd02': 'demo security group'}, 'virtualization_type': 'hvm', 'ebs_optimized': False, 'block_device_mapping': {'/dev/sda1': {'status': 'attached', 'volume_id': 'vol-07608c81eeba419d3', 'delete_on_termination': True}}, 'tenancy': 'default'})
changed: [localhost] => (item={'id': 'i-0e9e76b94552012e8', 'ami_launch_index': '0', 'private_ip': '172.31.7.107', 'private_dns_name': 'ip-172-31-7-107.ap-south-1.compute.internal', 'public_ip': '13.233.255.231', 'dns_name': 'ec2-13-233-255-231.ap-south-1.compute.amazonaws.com', 'public_dns_name': 'ec2-13-233-255-231.ap-south-1.compute.amazonaws.com', 'state_code': '16', 'architecture': 'x86_64', 'image_id': 'ami-02d55cb47e83a99a0', 'key_name': 'mumbai-ak', 'placement': 'ap-south-1b', 'region': 'ap-south-1', 'kernel': None, 'ramdisk': None, 'launch_time': '2020-07-09T06:09:50.000Z', 'instance_type': 't2.micro', 'root_device_type': 'ebs', 'root_device_name': '/dev/sda1', 'state': 'running', 'hypervisor': 'xen', 'tags': {'env': 'demo'}, 'groups': {'sg-01f33e8066a06dd02': 'demo security group'}, 'virtualization_type': 'hvm', 'ebs_optimized': False, 'block_device_mapping': {'/dev/sda1': {'status': 'attached', 'volume_id': 'vol-0ca2152f83da16ae6', 'delete_on_termination': True}}, 'tenancy': 'default'})
```

```

PLAY [launched] *****

TASK [Gathering Facts] *****
ok: [13.232.80.11]
ok: [13.233.255.231]

TASK [Increment variable] *****
ok: [13.233.255.231]
ok: [13.232.80.11]

TASK [debug] *****
ok: [13.232.80.11] => {
    "msg": "1"
}
ok: [13.233.255.231] => {
    "msg": "1"
}

TASK [Install nginx] *****
ok: [13.232.80.11]
ok: [13.233.255.231]

TASK [Create default index page] *****
ok: [13.232.80.11]
ok: [13.233.255.231]

TASK [Restart nginx] *****
changed: [13.232.80.11]
changed: [13.233.255.231]

PLAY [spin up the load balancer and add the servers to it] *****

TASK [setup a simple load balancer] *****
ok: [localhost]

TASK [add the webserver to the load balancer] *****
ok: [localhost -> localhost] => (item={'id': 'i-05b8ef05620bcbbdf', 'ami_launch_index': '1', 'private_ip': '172.31.8.44', 'private_dns_name': 'ip-172-31-8-44.ap-south-1.compute.internal', 'public_ip': '13.232.80.11', 'dns_name': 'ec2-13-232-80-11.ap-south-1.compute.amazonaws.com', 'public_dns_name': 'ec2-13-232-80-11.ap-south-1.compute.amazonaws.com', 'state_code': 16, 'architecture': 'x86_64', 'image_id': 'ami-02d55cb47e83a99a0', 'key_name': 'mumbai-ak', 'placement': 'ap-south-1b', 'region': 'ap-south-1', 'kernel': None, 'ramdisk': None, 'launch_time': '2020-07-09T06:09:50.000Z', 'instance_type': 't2.micro', 'root_device_type': 'ebs', 'root_device_name': '/dev/sda1', 'state': 'running', 'hypervisor': 'xen', 'tags': {'env': 'demo', 'groups': {'sg-01f33e8066a06dd02': 'demo security group'}, 'virtualization_type': 'hvm', 'ebs_optimized': False, 'block_device_mapping': {'/dev/sda1': {'status': 'attached', 'volume_id': 'vol-07608c81eeba419d3', 'delete_on_termination': True}}, 'tenancy': 'default'}})
ok: [localhost -> localhost] => (item={'id': 'i-0e9e76b94552012e8', 'ami_launch_index': '0', 'private_ip': '172.31.7.107', 'private_dns_name': 'ip-172-31-7-107.ap-south-1.compute.internal', 'public_ip': '13.233.255.231', 'dns_name': 'ec2-13-233-255-231.ap-south-1.compute.amazonaws.com', 'public_dns_name': 'ec2-13-233-255-231.ap-south-1.compute.amazonaws.com', 'state_code': 16, 'architecture': 'x86_64', 'image_id': 'ami-02d55cb47e83a99a0', 'key_name': 'mumbai-ak', 'placement': 'ap-south-1b', 'region': 'ap-south-1', 'kernel': None, 'ramdisk': None, 'launch_time': '2020-07-09T06:09:50.000Z', 'instance_type': 't2.micro', 'root_device_type': 'ebs', 'root_device_name': '/dev/sda1', 'state': 'running', 'hypervisor': 'xen', 'tags': {'env': 'demo', 'groups': {'sg-01f33e8066a06dd02': 'demo security group'}, 'virtualization_type': 'hvm', 'ebs_optimized': False, 'block_device_mapping': {'/dev/sda1': {'status': 'attached', 'volume_id': 'vol-0ca2152f83da16ae6', 'delete_on_termination': True}}, 'tenancy': 'default'}})

TASK [debug] *****
*****
ok: [localhost] => {
    "msg": "New ELB Endpoint : aws-elb-demo-1726014452.ap-south-1.elb.amazonaws.com"
}

TASK [add the webserver to the load balancer] *****
*****
changed: [localhost -> localhost] => (item={'id': 'i-05b8ef05620bcbbdf', 'ami_launch_index': '1', 'private_ip': '172.31.8.44', 'private_dns_name': 'ip-172-31-8-44.ap-south-1.compute.internal', 'public_ip': '13.232.80.11', 'dns_name': 'ec2-13-232-80-11.ap-south-1.compute.amazonaws.com', 'public_dns_name': 'ec2-13-232-80-11.ap-south-1.compute.amazonaws.com', 'state_code': 16, 'architecture': 'x86_64', 'image_id': 'ami-02d55cb47e83a99a0', 'key_name': 'mumbai-ak', 'placement': 'ap-south-1b', 'region': 'ap-south-1', 'kernel': None, 'ramdisk': None, 'launch_time': '2020-07-09T06:09:50.000Z', 'instance_type': 't2.micro', 'root_device_type': 'ebs', 'root_device_name': '/dev/sda1', 'state': 'running', 'hypervisor': 'xen', 'tags': {'env': 'demo', 'groups': {'sg-01f33e8066a06dd02': 'demo security group'}, 'virtualization_type': 'hvm', 'ebs_optimized': False, 'block_device_mapping': {'/dev/sda1': {'status': 'attached', 'volume_id': 'vol-07608c81eeba419d3', 'delete_on_termination': True}}, 'tenancy': 'default'}})
changed: [localhost -> localhost] => (item={'id': 'i-0e9e76b94552012e8', 'ami_launch_index': '0', 'private_ip': '172.31.7.107', 'private_dns_name': 'ip-172-31-7-107.ap-south-1.compute.internal', 'public_ip': '13.233.255.231', 'dns_name': 'ec2-13-233-255-231.ap-south-1.compute.amazonaws.com', 'public_dns_name': 'ec2-13-233-255-231.ap-south-1.compute.amazonaws.com', 'state_code': 16, 'architecture': 'x86_64', 'image_id': 'ami-02d55cb47e83a99a0', 'key_name': 'mumbai-ak', 'placement': 'ap-south-1b', 'region': 'ap-south-1', 'kernel': None, 'ramdisk': None, 'launch_time': '2020-07-09T06:09:50.000Z', 'instance_type': 't2.micro', 'root_device_type': 'ebs', 'root_device_name': '/dev/sda1', 'state': 'running', 'hypervisor': 'xen', 'tags': {'env': 'demo', 'groups': {'sg-01f33e8066a06dd02': 'demo security group'}, 'virtualization_type': 'hvm', 'ebs_optimized': False, 'block_device_mapping': {'/dev/sda1': {'status': 'attached', 'volume_id': 'vol-0ca2152f83da16ae6', 'delete_on_termination': True}}, 'tenancy': 'default'}})

PLAY RECAP *****
13.232.80.11      : ok=6    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
13.233.255.231   : ok=6    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
localhost        : ok=7    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

```



Hello from EC2 Instance1 server IP: 13.232.80.11



Hello from EC2 Instance2 server IP: 13.233.255.231

```
TASK [debug] *****
ok: [localhost] => {
  "msg": "New ELB Endpoint : aws-elb-draup-1575310862.ap-south-1.elb.amazonaws.com"
}
```