

How to onboard your AWS servers on InfraGuard?

Create a Role for communicating with InfraGuard

- Log on to your AWS account console
- Go to IAM → Roles → Create Role
- Choose 'EC2' as the service that will use this role
- Click on 'Next:Permissions'
- Attach Policy AmazonSSMFullAccess and skip to Review
- Enter Role Name "Infraguard-aws" & Press "Create Role"
- Again, click on the role "Infraguard-aws" from the list
- Click on "Add Inline Policy"
- Click on "JSON"
- Replace the content with the JSON below:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Action": [
        "ec2:DescribeInstances",
        "ec2:DescribeInstanceAttribute",
        "ec2:DescribeTags",
        "ec2:ModifyInstanceAttribute",
        "ec2:StartInstances",
        "ec2:StopInstances",
        "ec2:rebootInstances",
        "ec2:DescribeImages",
        "ec2:CreateImage",
        "ec2:DeregisterImage",
        "ec2:DescribeAvailabilityZones",
        "iam:ListInstanceProfilesForRole",
        "iam:GetInstanceProfile"
      ],
      "Resource": "*",
      "Effect": "Allow",
      "Sid": "Stmt1434989080227"
    }
  ]
}
```

- Click on "Review Policy"
- Enter the name "InfraGuard-aws-policy"
- Click on "Create Policy"
- Now, Click on "Trust Relationships" and replace Trust Relationship JSON with:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "foriamuser",
```

```

    "Effect": "Allow",
    "Principal": {
      "AWS": "arn:aws:iam::028197385767:role/infraguardswitchrole"
    },
    "Action": "sts:AssumeRole",
    "Condition": {
      "StringEquals": {
        "sts:ExternalId": "InfraGuardApp"
      }
    }
  },
  {
    "Sid": "forssmec2",
    "Effect": "Allow",
    "Principal": {
      "Service": [
        "ec2.amazonaws.com",
        "ssm.amazonaws.com"
      ]
    },
    "Action": "sts:AssumeRole"
  }
]
}

```

- Click on “Update Trust Policy”
- Copy your role ARN (you can also view this later by going to IAM -> Roles -> Infraguard-aws)
- Go to EC2 Management Console and select your AWS instance
- Go to Actions -> Instance Settings -> Attach/Replace IAM Role
- From the drop-down, choose “Infraguard-aws” & press “Apply”

Ensure SSM is installed and active

- Logon to your AWS console and click on “Run Command” under “AWS SYSTEMS MANAGER” service
- Click on “Run a command”
- Select “AWS-RunShellScript” for Linux or “AWS-RunPowerShellScript” for Windows from list of Command document
- Now click on select instance button and select the instance from instance list
- Enter `sudo status amazon-ssm-agent` for Linux and `Get-Service -Name "AmazonSSMAgent"` for Windows instance in commands text area and click 'Run'
- Now click on command id and select 'Output' tab and then view output
- Make sure the output is `amazon-ssm-agent start/running`

If SSM is not installed in your Linux Environment perform following steps:

Log on to a server or VM in your Linux environment
Copy and paste one of the following command blocks into SSH.

Amazon Linux 2, RHEL7, and CentOS 7 (64 bit)

```

#!/bin/bash
cd /tmp
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
```

Amazon Linux, CentOS 6 (64 bit)

```
#!/bin/bash
cd /tmp
sudo yum install -y https://s3.amazonaws.com/ec2-downloads-
windows/SSMAgent/latest/linux_amd64/amazon-ssm-agent.rpm
sudo start amazon-ssm-agent
```

Ubuntu 16 (Deb Installer), Debian 8 and 9

```
#!/bin/bash
mkdir /tmp/ssm
cd /tmp/ssm
wget https://s3.amazonaws.com/ec2-downloads-
windows/SSMAgent/latest/debian_amd64/amazon-ssm-agent.deb
sudo dpkg -i amazon-ssm-agent.deb
sudo systemctl enable amazon-ssm-agent
```

Ubuntu 14 (Deb installer)

```
#!/bin/bash
mkdir /tmp/ssm
cd /tmp/ssm
wget https://s3.amazonaws.com/ec2-downloads-
windows/SSMAgent/latest/debian_amd64/amazon-ssm-agent.deb
sudo dpkg -i amazon-ssm-agent.deb
sudo start amazon-ssm-agent
```

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```
#!/bin/bash
mkdir /tmp/ssm
cd /tmp/ssm
wget https://s3.amazonaws.com/ec2-downloads-
windows/SSMAgent/latest/linux_amd64/amazon-ssm-agent.rpm
sudo rpm --install amazon-ssm-agent.rpm
sudo systemctl enable amazon-ssm-agent
sudo systemctl start amazon-ssm-agent
```

Onboard your servers to InfraGuard

- First, make sure that Managed Instances listed in the AWS Systems Manager for this server is in running state
- Log onto app.infraguard.io account
- Select CLUSTER from side-menu
- Click on "Create AWS cluster"
- Add Any relevant Name, your Role ARN (IAM -> Roles -> Infraguard-aws)
- Add InfraGuardApp in ExternalID
- Click 'Sync' to make your newly added server appear in list of servers
- Wait for some time before you click on 'Servers' to get your list of servers for that role ARN

AWS - Onboarding Youtube video - [AWS Onboarding on InfraGuard - Tutorial](#)