

How to on-board your on-premise servers?

Pre-requisite

Once you are ready to onboard Servers to InfraGuard, you will need to create a role and Activation on an AWS account to install agents on the servers. If you don't have an AWS account, contact InfraGuard support to create an Activation. You are going to need one IAM role for each Azure account.

Creating a Role for communicating with InfraGuard

- Log into your AWS account console
- Go to IAM → Roles → Create Role
- Choose EC2 as the service that will use this role
- Attach Policy AmazonSSMFullAccess and skip to Review
- Enter Role Name "Infraguard-onprem" & Press "Create Role"
- Again, Click on the role "Infraguard-onprem" 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",
        "iam:ListInstanceProfilesForRole",
        "iam:GetInstanceProfile"
      ],
      "Resource": "*",
      "Effect": "Allow",
      "Sid": "Stmt1434989080227"
    }
  ]
}
```

- }
- Click on "Review Policy"
- Enter the name "InfraGuard-onprem-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”

Create an Activation on an AWS account

- Open the AWS Systems Manager console
- In the navigation pane, choose Hybrid Activations and choose Create activation.
- (Optional) In the Activation description field, enter a description for this activation.
- In the Instance limit field, specify the total number of on-premises servers or VMs that you want to register with AWS as part of this activation.
- In the IAM role name section, choose a service role option that enables your servers and VMs to communicate with AWS Systems Manager in the cloud:
 1. Choose Use the system created default command execution role to use a role and managed policy created by AWS.
 2. Choose Select an existing custom IAM role that has the required permissions to use the optional custom role you created earlier.
- In the Activation expiry date field, specify an expiration date for the activation.
- (Optional) In the Default instance name field, specify a name.
- Choose Create activation. Systems Manager immediately returns the Activation Code and ID to the console.
- Note down the Activation Code and Activation ID in a safe place.

Install the agent in your Window Environment:

- Log on to a server or VM in your Window environment
- Open Windows PowerShell
- Copy and paste the following command block after replacing the placeholder values with the Activation Code and Activation ID and AWS Region code:

```
$code = "activation-code"
```

```

$id = "activation-id"
$region = "region"
$dir = $env:TEMP + "\ssm"
New-Item -ItemType directory -Path $dir -Force
cd $dir
(New-Object System.Net.WebClient).DownloadFile("https://amazon-ssm-
$region.s3.amazonaws.com/latest/windows_amd64/AmazonSSMAgentSetup.exe", $dir +
"\AmazonSSMAgentSetup.exe")
Start-Process .\AmazonSSMAgentSetup.exe -ArgumentList @("/q", "/log",
"install.log", "CODE=$code", "ID=$id", "REGION=$region") -Wait
Get-Content ($env:ProgramData + "\Amazon\SSM\InstanceData\registration")
Get-Service -Name "AmazonSSMAgent"

```

Install the agent in your Linux Environment:

- Log on to a server or VM in your Linux environment
- Copy and paste one of the following command blocks into SSH. Replace the placeholder values with the Activation Code and Activation ID and AWS Region code.

• On RHEL 6.x, and CentOS 6.x

```

mkdir /tmp/ssm
curl https://s3.amazonaws.com/ec2-downloads-
windows/SSMAgent/latest/linux_amd64/amazon-ssm-agent.rpm -o /tmp/ssm/amazon-ssm-
agent.rpm
sudo yum install -y /tmp/ssm/amazon-ssm-agent.rpm
sudo stop amazon-ssm-agent
sudo amazon-ssm-agent -register -code "activation-code" -id "activation-id"
-region "region"
sudo start amazon-ssm-agent

```

• On RHEL 7.x and CentOS 7.x

```

mkdir /tmp/ssm
curl https://s3.amazonaws.com/ec2-downloads-
windows/SSMAgent/latest/linux_amd64/amazon-ssm-agent.rpm -o /tmp/ssm/amazon-ssm-
agent.rpm
sudo yum install -y /tmp/ssm/amazon-ssm-agent.rpm
sudo systemctl stop amazon-ssm-agent
sudo amazon-ssm-agent -register -code "activation-code" -id "activation-id"
-region "region"
sudo systemctl start amazon-ssm-agent

```

• On SLES [SUSE Linux Enterprise Server]

```

mkdir /tmp/ssm
sudo 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 stop amazon-ssm-agent
sudo amazon-ssm-agent -register -code "activation-code" -id "activation-id"
-region "region"
sudo systemctl enable amazon-ssm-agent
sudo systemctl start amazon-ssm-agent

```

• On Ubuntu, Debian

```
mkdir /tmp/ssm

curl https://s3.amazonaws.com/ec2-downloads-
windows/SSMAgent/latest/debian_amd64/amazon-ssm-agent.deb -o /tmp/ssm/amazon-ssm-
agent.deb
sudo dpkg -i /tmp/ssm/amazon-ssm-agent.deb
sudo service amazon-ssm-agent stop
sudo amazon-ssm-agent -register -code "activation-code" -id "activation-id"
-region "region"

sudo service amazon-ssm-agent start
```

• On Raspbian

```
mkdir /tmp/ssm
sudo curl https://s3.amazonaws.com/ec2-downloads-
windows/SSMAgent/latest/debian_arm/amazon-ssm-agent.deb -o /tmp/ssm/amazon-ssm-
agent.deb
sudo dpkg -i /tmp/ssm/amazon-ssm-agent.deb
sudo service amazon-ssm-agent stop
sudo amazon-ssm-agent -register -code "activation-code" -id "activation-id"
-region "region"
sudo service amazon-ssm-agent start
```

Attach AWS IAM role with managed onprem instance

- Go to AWS Systems Manager and select "Managed instances" under Instances & Nodes
- Select your instance
- Go to Actions -> Change IAM Role
- From the drop-down, choose "Infraguard-onprem" & press "Save IAM role"
- Make sure that Managed Instances is in running state

Onboard your servers to InfraGuard

- Log onto app.infraguard.io Account
- Select CLUSTER from side-menu
- Click on "Create On Premise cluster"
- Add any relevant Name
- Add your Role ARN (AWS IAM -> Roles -> Infraguard-onprem)
- Click on the "Sample File" link and download a file(onpremservers_list) to provide your server information
- Fill server name, Instance id, and AWS Region name. You can collect this information from AWS System Manager > Managed Instances. Save it.
- Upload sample file(onpremservers_list)
- Click 'Sync' to make your newly added server appear in the list of servers
- Wait for some time before you click on 'Servers' to get your list of servers for that role ARN

Backup Image Creation via InfraGuard is not available for onprem Instances.

