



Radware Cloud Workload Protection **ONBOARDING GUIDE**

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RADWARE CLOUD WORKLOAD PROTECTION ONBOARDING GUIDE

This document describes the following topics:

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- [Account Configuration and Metadata Collected by CWP, page 4](#)
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- [Radware Onboarding Wizard, page 7](#)

Onboarding an AWS account

Onboarding an AWS account to the Radware Cloud Workload Protection (CWP) service involves adding policies and roles to your account to allow Radware to collect logs and metadata.



Notes

- Radware CWP can not make changes directly to your AWS account.
- There is no need to install agents or deploy any additional software to your cloud for CWP to protect your account.



To add an AWS account to the Radware Cloud Workload Protection service

1. Review the log requirements ([Logs Collected by CWP, page 4](#)) and permissions ([Required AWS Permissions, page 5](#)) necessary for CWP to access logs and metadata in your AWS account.
2. In the [Radware Onboarding Wizard](#), complete the setup as follows:
 - Create permission policies in your AWS account.
 - Create cross-account role in your AWS account to allow access from Radware's AWS account.
 - Connect your account to the Radware Cloud Workload Protection service.

Logs Collected by CWP

To protect your AWS account, Radware CWP analyzes several types of logs that capture the activity inside your cloud across multiple dimensions.

- **CloudTrail logs** capture account activity related to actions across your AWS infrastructure. CloudTrail logs are collected from an S3 bucket (recommended).
- **Flow logs** capture information about the network traffic going to and from network interfaces in your VPCs. Flow logs are collected from AWS CloudWatch or from an S3 bucket.

If enabling Flow logs for all of your VPCs is not feasible, Radware recommends that you enable Flow logs in key subnets where critical data and workloads are deployed.



Note: AWS now allows collecting Flow logs on different levels, from entire VPCs to specific subnets, or even specific network interfaces. For more information, see the [AWS documentation](#).

- **CloudTrail S3 object-level** logs capture data events for objects in an S3 bucket. CloudTrail S3 logs are collected as part of regular CloudTrail logs.

If enabling CloudTrail S3 object-level logs for all of your S3 buckets is not feasible, Radware recommends that you enable these logs at least for those S3 buckets that store sensitive data. For more information, see the [AWS documentation](#).

- **Linux auditd.log** captures network and process activity inside Linux servers. For additional details on collection of audit.log, refer to the Cloud Workflow Protection Linux Log Collection Guide.

Account Configuration and Metadata Collected by CWP

Metadata collected by the Radware Cloud Workload Protection service includes the following. For a complete list of collected metadata, see [Required AWS Permissions, page 5](#).

- EC2
 - instances
 - network interfaces
 - VPCs
 - subnets
 - security groups
 - and more
- Lambda Functions
- IAM
 - users
 - user groups
 - roles
 - policies
- databases
 - RDS DB instances
 - Redshift clusters

Required AWS Permissions

This section lists the AWS permissions required for Radware Cloud Workload Protection to collect logs and metadata from customer cloud environment. All required permissions are read-only.

Policy 1—Accessing Configuration, Metadata and Flow Logs

This policy allows access to configuration and metadata through various AWS describe and list functions, and also allows access to Flow Logs in stored CloudWatch.

```
RadwareCWP_Describe_Access:
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "DescribeResources",
      "Effect": "Allow",
      "Action": [
        "ec2:DescribeInstances",
        "ec2:DescribeSubnets",
        "ec2:DescribeNetworkInterfaces",
        "ec2:DescribeSecurityGroups",
        "ec2:DescribeAvailabilityZones",
        "ec2:DescribeInstanceAttribute",
        "ec2:DescribeVpcs",
        "ec2:DescribeRegions",
        "ec2:DescribeRouteTables",
        "ec2:DescribeFlowLogs",
        "ec2:DescribeImages",
        "ec2:DescribeImageAttribute",
        "ec2:DescribeSnapshots",
        "ec2:DescribeSnapshotAttribute",
        "rds:DescribeDBInstances",
        "rds:DescribeDBClusters",
        "rds:DescribeDBSecurityGroups",
        "rds:ListTagsForResource",
        "iam:ListUsers",
        "iam:GetAccountAuthorizationDetails",
        "lambda:ListFunctions",
        "iam:ListRoles",
        "iam:GenerateCredentialReport",
        "iam:GetCredentialReport",
        "iam:GetAccountPasswordPolicy",
        "logs:DescribeLogGroups",
        "logs:DescribeLogStreams",
        "logs:GetLogEvents",
        "logs:FilterLogEvents",
        "redshift:DescribeClusters",
        "redshift:DescribeClusterSecurityGroups",
        "redshift:DescribeClusterSubnetGroups",
        "redshift:DescribeTags",
        "s3:ListAllMyBuckets",
        "s3:ListBucket",

```

(continued)

```

        "s3:GetBucketAcl",
        "s3:GetBucketPolicy",
        "s3:GetEncryptionConfiguration",
        "s3:GetBucketLogging",
        "s3:GetObject",
        "s3:GetBucketLocation",
        "guardduty:ListDetectors",
        "guardduty:ListFindings",
        "guardduty:GetFindings",
        "kms:ListKeys",
        "kms:ListKeyPolicies",
        "kms:GetKeyPolicy",
        "cloudtrail:DescribeTrails"
    ],
    "Resource": "*"
  }
]
}

```

Policy 2—Accessing CloudTrail and VPC Flow Logs Stored in S3

This policy allows access to CloudTrail and VPC Flow Logs Stored in S3.

In the following example:

- <cloudtrail-bucket> is the name of the S3 bucket in which the CloudTrail logs are collected.
- <cloudtrail-prefix> is the optional prefix defined for CloudTrail logs in <cloudtrail-bucket>.
- <flowlogs-bucket> is the name of the S3 bucket in which the VPC Flow logs are collected.
- <flowlogs-prefix> is the optional prefix defined for VPC Flow logs in <flowlogs-bucket>.



Note: Set the VPC Flow logs location in S3 only when you collect Flow Logs in an S3 bucket.

```

RadwareCWP_LogsAccess:
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "ListBuckets",
      "Effect": "Allow",
      "Action": [
        "s3:ListBucket"
      ],
      "Resource": [
        "arn:aws:s3:::<cloudtrail-bucket>",
        "arn:aws:s3:::<cloudtrail-bucket>/*",
        "arn:aws:s3:::<flowlogs-bucket>",
        "arn:aws:s3:::<flowlogs-bucket>*"
      ]
    }
  ],
}

```

(continued)

```

{
  "Sid": "ReadLogs",
  "Effect": "Allow",
  "Action": "s3:Get*",
  "Resource": [
    "arn:aws:s3:::<cloudtrail-bucket>/[cloudtrail-prefix/]AWSLogs/",
    "arn:aws:s3:::<cloudtrail-bucket>/[cloudtrail-prefix/]AWSLogs/*",
    "arn:aws:s3:::<flowlogs-bucket>/[flowlogs-prefix/]AWSLogs/",
    "arn:aws:s3:::<flowlogs-bucket>/[flowlogs-prefix/]AWSLogs/*"
  ]
}
]
}

```

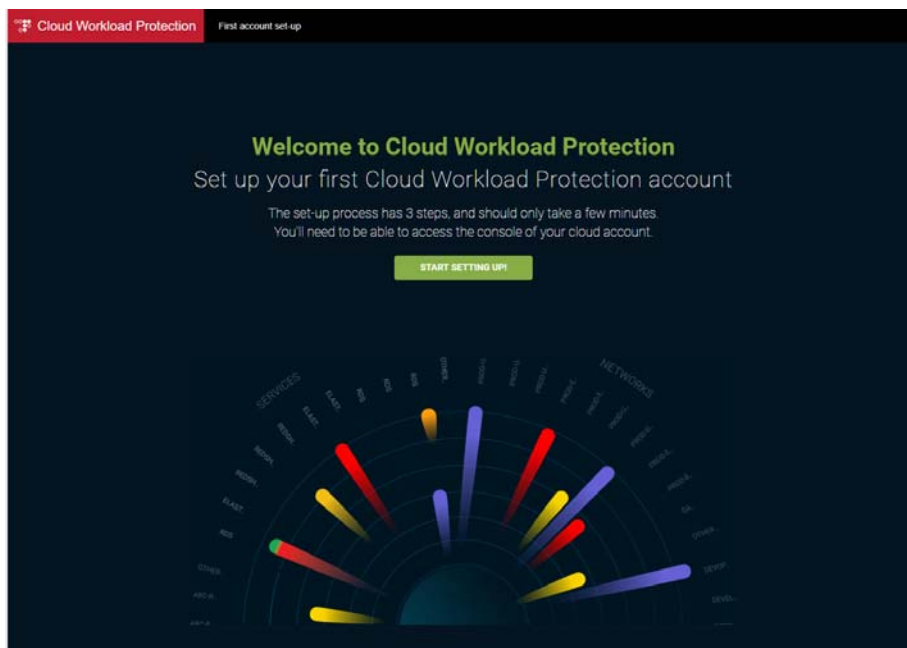
Radware Onboarding Wizard

Radware CWP uses role assumption to collect logs and metadata from customer AWS accounts. This requires adding IAM permission policies and creating a cross-account role in your AWS account to allow access from Radware's AWS account, as follows:

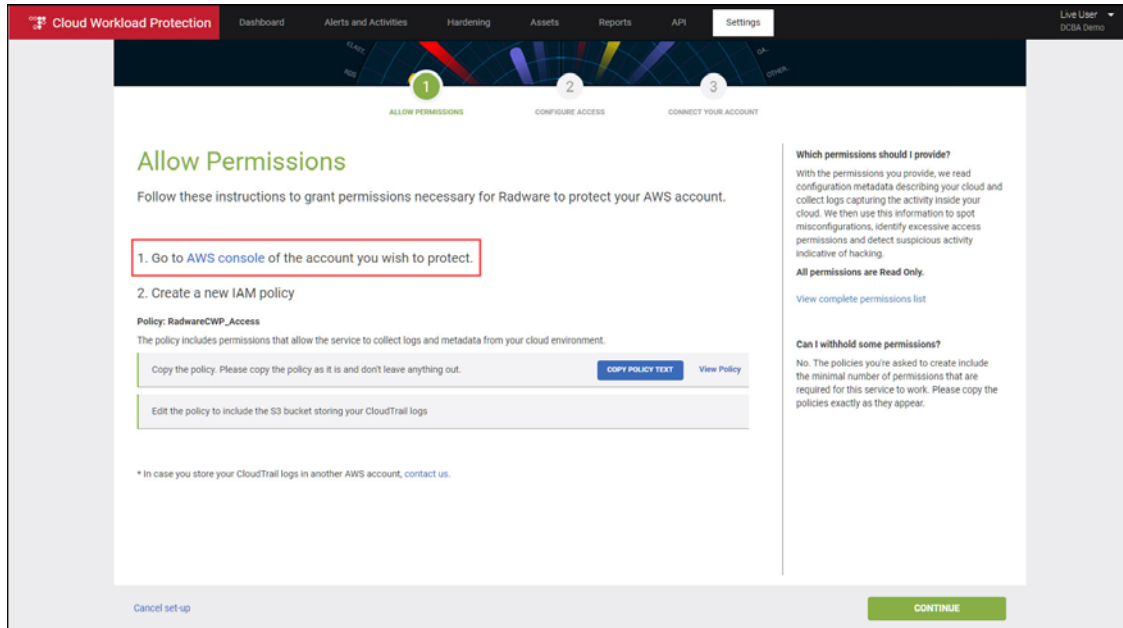


To connect your AWS account to the Radware Cloud Workload Protection service

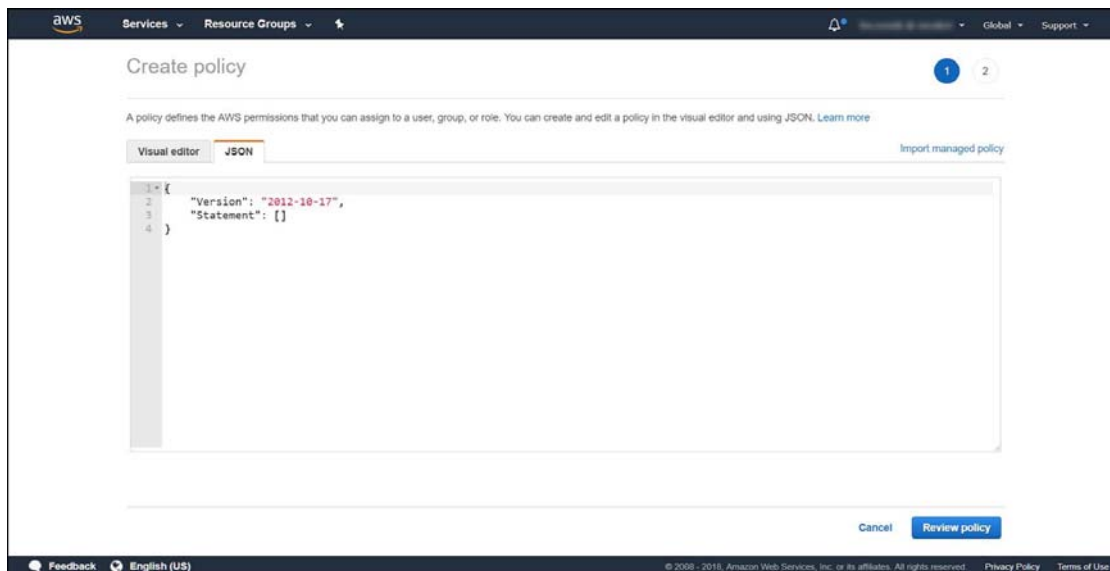
1. Log in to the service portal at <https://portal.seculert.com> with the credentials you received from Radware.
 - If this is the first account you are adding to Radware Cloud Workload Protection, the Onboarding Wizard opens automatically. Click **START SETTING UP!**.



- If you have already connected an account to Radware and want to protect an additional account, select **Settings > Manage Cloud Accounts** and launch the Onboarding Wizard by clicking **Add Account**.
- 2. In the **Allow Permissions** screen, create the required permission policies in your AWS account, as follows:
 - a. Click the *AWS console* link and log in to your AWS console.



- b. In your AWS console, select **IAM service > Policies > Create policy**, and select the *JSON* tab.



- c. In the Radware Onboarding Wizard, click **COPY POLICY TEXT**, then paste the text into the AWS console *JSON* tab.

Cloud Workload Protection | Dashboard | Alerts and Activities | Hardening | Assets | Reports | API | Settings | Live User: DCBA Demo

1. ALLOW PERMISSIONS | 2. CONFIGURE ACCESS | 3. CONNECT YOUR ACCOUNT

Allow Permissions

Follow these instructions to grant permissions necessary for Radware to protect your AWS account.

1. Go to [AWS console](#) of the account you wish to protect.
2. Create a new IAM policy

Policy: RadwareCWP_Access
The policy includes permissions that allow the service to collect logs and metadata from your cloud environment.

Copy the policy. Please copy the policy as it is and don't leave anything out.

COPY POLICY TEXT | View Policy

Edit the policy to include the S3 bucket storing your CloudTrail logs

* In case you store your CloudTrail logs in another AWS account, [contact us](#).

Which permissions should I provide?
With the permissions you provide, we read configuration metadata describing your cloud and collect logs capturing the activity inside your cloud. We then use this information to spot misconfigurations, identify excessive access permissions and detect suspicious activity indicative of hacking.
All permissions are Read Only.
[View complete permissions list](#)

Can I withhold some permissions?
No. The policies you're asked to create include the minimal number of permissions that are required for this service to work. Please copy the policies exactly as they appear.

Cancel set-up | **CONTINUE**

- d. Edit the JSON to refer to the S3 bucket location storing your CloudTrail logs, and if relevant, your VPC Flow logs location.
- e. Continue using the AWS Create policy wizard to create a new IAM policy called "RadwareCWP_Access".
- f. In the Radware Onboarding Wizard, click **CONTINUE**.
3. In the **Configure Access** screen, allow Radware to access logs and metadata in your cloud, as follows:

Cloud Workload Protection | Dashboard | Alerts and Activities | Hardening | Assets | Reports | API | Settings | Live User: DCBA Demo

1. ALLOW PERMISSIONS | 2. CONFIGURE ACCESS | 3. CONNECT YOUR ACCOUNT

Configure Access

Follow the instructions to let Cloud Workload Protection access your account.

1. In your IAM Management Console:

Create a new role for access by Radware.

Select type of trusted entity: "Another AWS Account".

In Account ID enter Radware's AWS account ID: 123456789012

Check the "Require external ID option" and set an ID of your choosing.

Do not check the "Require MFA option".

2. In the role's Permissions tab, select the policy you created:
RadwareCWP_Access

3. Complete the rest of steps as required by AWS and then continue to the final step of this set up.

Cancel set-up | **CONTINUE**

- a. In your AWS console, go to **IAM service > Roles > Create role**.

The screenshot shows the 'Create role' wizard in the AWS IAM console. The first step is 'Select type of trusted entity'. The 'Another AWS account' option is selected. Below this, the 'Account ID' field is populated with '123456789012'. Under the 'Options' section, 'Require external ID' is checked, and the 'External ID' field contains 'QwErTy'. The 'Require MFA' option is unchecked. The 'Next: Permissions' button is visible at the bottom right.

- b. Under **Select type of trusted entity**, select **Another AWS Account**.
- c. In the **Account ID** field, type the account number displayed in the Radware Onboarding Wizard.
- d. Select **Require external ID**.
- e. In the **External ID** field, specify an ID string for the role.
- f. Do not select **Require MFA**.
- g. Click **Next:Permissions**.
- h. In the role's *Permissions* tab, select the "RadwareCWP_Access" policy you created earlier.
- i. Continue using the AWS Create role wizard to create a new role.
- j. In the Radware Onboarding Wizard, click **CONTINUE**.
4. Connect your AWS account to the Radware Cloud Workload Protection service, as follows:

The screenshot shows the 'Connect your account' screen in the Radware Cloud Workload Protection console. The progress bar indicates three steps: 'ALLOW PERMISSIONS', 'CONFIGURE ACCESS', and 'CONNECT YOUR ACCOUNT'. The 'CONNECT YOUR ACCOUNT' step is active. The form fields are: 'ACCOUNT NAME' (My_AWS_Account), 'ROLE ARN' (arn:aws:iam::987654321098:role/RadwareCWP_role), and 'External ID' (QwErTy). There is a checkbox for 'My account doesn't require an External ID' which is unchecked. The 'FINISH SET UP' button is visible at the bottom right.

- a. In the **ACCOUNT NAME** field, type the name of the AWS account. This name will be used by Radware when referring to this account. Radware recommends that you use the same name as in your AWS environment.
- b. In the **ROLE ARN** field, type the ARN of the cross-account role you created in your AWS account in [step 3](#).
- c. In the **External ID** field, type the External ID you defined for the cross-account role created in your AWS account in [step 3](#).
- d. Click **Finish Set-up**.

Radware will now complete the onboarding process and start ingesting logs and metadata from your account. We will let you know by email once your account is ready.

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