

AWS Management Console sign-in events

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CloudTrail logs attempts to sign in to the AWS Management Console, the AWS Discussion Forums, and the AWS Support Center. All IAM user and root user sign-in events, as well as all federated user sign-in events, generate records in CloudTrail log files. For information about finding and viewing logs, see [Finding your CloudTrail log files](#) and [Downloading your CloudTrail log files](#).

You can use [AWS User Notifications](#) to set up delivery channels to get notified about AWS CloudTrail events. You receive a notification when an event matches a rule that you specify. You can receive notifications for events through multiple channels, including email, [Amazon Q Developer in chat applications](#) chat notifications, or [AWS Console Mobile Application](#) push notifications. You can also see notifications in the [Console Notifications Center](#). User Notifications supports aggregation, which can reduce the number of notifications you receive during specific events.

Note

The Region recorded in a `ConsoleLogin` event varies based on the user type and whether you use a global or regional endpoint to sign in.

- If you sign in as the root user, CloudTrail records the event in us-east-1.
- If you sign in with an IAM user and use the global endpoint, CloudTrail records the Region of the `ConsoleLogin` event as follows:
 - If an account alias cookie is present in the browser, CloudTrail records the `ConsoleLogin` event in one of the following regions: us-east-2, eu-north-1, or ap-southeast-2. This is because the console proxy redirects the user based on the latency from the user sign-in location.
 - If an account alias cookie is not present in the browser, CloudTrail records the `ConsoleLogin` event in us-east-1. This is because the console proxy redirects back to the global sign-in.
- If you sign in with an IAM user and use a [Regional endpoint](#), CloudTrail records the `ConsoleLogin` event in the appropriate Region for the endpoint. For more information about AWS Sign-In endpoints, see [AWS Sign-In endpoints and quotas](#).

Topics

- [Example event records for IAM users](#)
- [Example event records for root users](#)
- [Example event records for federated users](#)

Example event records for IAM users

The following examples show event records for several IAM user sign-in scenarios.

Topics

- [IAM user, successful sign-in without MFA](#)
- [IAM user, successful sign-in with MFA](#)
- [IAM user, unsuccessful sign-in](#)
- [IAM user, sign-in process checks for MFA \(single MFA device type\)](#)
- [IAM user, sign-in process checks for MFA \(multiple MFA device types\)](#)

IAM user, successful sign-in without MFA

The following record shows that a user named `Anaya` successfully signed in to the AWS Management Console without using multi-factor authentication (MFA).

```
{
  "eventVersion": "1.08",
  "userIdentity": {
    "type": "IAMUser",
    "principalId": "EXAMPLE6E4XEGITWATV6R",
    "arn": "arn:aws:iam::999999999999:user/Anaya",
    "accountId": "999999999999",
    "userName": "Anaya"
  },
  "eventTime": "2023-07-19T21:44:40Z",
  "eventSource": "signin.amazonaws.com",
  "eventName": "ConsoleLogin",
  "awsRegion": "us-east-1",
  "sourceIPAddress": "192.0.2.0",
  "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:102.0) Gecko/20100101 Firefox/102.0",
  "requestParameters": null,
  "responseElements": {
    "ConsoleLogin": "Success"
  },
  "additionalEventData": {
    "LoginTo": "https://console.aws.amazon.com/console/home?hashArgs=%23&isauthcode=true&state=hashArgsFrom",
    "MobileVersion": "No",
    "MFAUsed": "No"
  },
  "eventID": "e1bf1000-86a4-4a78-81d7-EXAMPLE83102",
  "readOnly": false,
```

```

"eventType": "AwsConsoleSignIn",
"managementEvent": true,
"recipientAccountId": "999999999999",
"eventCategory": "Management",
"tlsDetails": {
  "tlsVersion": "TLSv1.3",
  "cipherSuite": "TLS_AES_128_GCM_SHA256",
  "clientProvidedHostHeader": "us-east-1.signin.aws.amazon.com"
}
}

```

IAM user, successful sign-in with MFA

The following record shows that an IAM user named `Anaya` successfully signed in to the AWS Management Console using multi-factor authentication (MFA).

```

{
  "eventVersion": "1.08",
  "userIdentity": {
    "type": "IAMUser",
    "principalId": "EXAMPLE6E4XEGITWATV6R",
    "arn": "arn:aws:iam::999999999999:user/Anaya",
    "accountId": "999999999999",
    "userName": "Anaya"
  },
  "eventTime": "2023-07-19T22:01:30Z",
  "eventSource": "signin.amazonaws.com",
  "eventName": "ConsoleLogin",
  "awsRegion": "us-east-1",
  "sourceIPAddress": "192.0.2.0",
  "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:102.0) Gecko/20100101 Firefox/102.0",
  "requestParameters": null,
  "responseElements": {
    "ConsoleLogin": "Success"
  },
  "additionalEventData": {
    "LoginTo": "https://console.aws.amazon.com/console/home?hashArgs=%23&isauthcode=true&state=hashArgsFrom",
    "MobileVersion": "No",
    "MFAIdentifier": "arn:aws:iam::999999999999:mfa/mfa-device",
    "MFAUsed": "Yes"
  },
  "eventID": "e1f76697-5beb-46e8-9cfc-EXAMPLEbde31",
  "readOnly": false,
  "eventType": "AwsConsoleSignIn",
  "managementEvent": true,
  "recipientAccountId": "999999999999",

```

```
"eventCategory": "Management",
"tlsDetails": {
  "tlsVersion": "TLSv1.3",
  "cipherSuite": "TLS_AES_128_GCM_SHA256",
  "clientProvidedHostHeader": "us-east-1.signin.aws.amazon.com"
}
}
```

IAM user, unsuccessful sign-in

The following record shows an unsuccessful sign-in attempt from an IAM user named `Paulo`.

```
{
  "eventVersion": "1.08",
  "userIdentity": {
    "type": "IAMUser",
    "principalId": "EXAMPLE6E4XEGITWATV6R",
    "accountId": "123456789012",
    "accessKeyId": "",
    "userName": "Paulo"
  },
  "eventTime": "2023-07-19T22:01:20Z",
  "eventSource": "signin.amazonaws.com",
  "eventName": "ConsoleLogin",
  "awsRegion": "us-east-1",
  "sourceIPAddress": "192.0.2.0",
  "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:102.0) Gecko/20100101 Firefox/102.0",
  "errorMessage": "Failed authentication",
  "requestParameters": null,
  "responseElements": {
    "ConsoleLogin": "Failure"
  },
  "additionalEventData": {
    "LoginTo": "https://console.aws.amazon.com/console/home?hashArgs=%23&isauthcode=true&state=hashArgsFrom",
    "MobileVersion": "No",
    "MFAUsed": "Yes"
  },
  "eventID": "66c97220-2b7d-43b6-a7a0-EXAMPLEbae9c",
  "readOnly": false,
  "eventType": "AwsConsoleSignIn",
  "managementEvent": true,
  "recipientAccountId": "123456789012",
  "eventCategory": "Management",
  "tlsDetails": {
    "tlsVersion": "TLSv1.3",
    "cipherSuite": "TLS_AES_128_GCM_SHA256",
```

```
    "clientProvidedHostHeader": "us-east-1.signin.aws.amazon.com"
  }
}
```

IAM user, sign-in process checks for MFA (single MFA device type)

The following shows that the sign-process checked whether multi-factor authentication (MFA) is required for an IAM user during sign-in. In this example, the `mfaType` value is `U2F MFA`, which indicates that the IAM user enabled either a single MFA device or multiple MFA devices of the same type (`U2F MFA`).

```
{
  "eventVersion": "1.08",
  "userIdentity": {
    "type": "IAMUser",
    "principalId": "EXAMPLE6E4XEGITWATV6R",
    "accountId": "123456789012",
    "accessKeyId": "",
    "userName": "Alice"
  },
  "eventTime": "2023-07-19T22:01:26Z",
  "eventSource": "signin.amazonaws.com",
  "eventName": "CheckMfa",
  "awsRegion": "us-east-1",
  "sourceIPAddress": "192.0.2.0",
  "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:102.0) Gecko/20100101 Firefox/102.0",
  "requestParameters": null,
  "responseElements": {
    "CheckMfa": "Success"
  },
  "additionalEventData": {
    "MfaType": "Virtual MFA"
  },
  "eventID": "7d8a0746-b2e7-44f5-9917-EXAMPLEfb77c",
  "readOnly": false,
  "eventType": "AwsConsoleSignIn",
  "managementEvent": true,
  "recipientAccountId": "123456789012",
  "eventCategory": "Management",
  "tlsDetails": {
    "tlsVersion": "TLSv1.3",
    "cipherSuite": "TLS_AES_128_GCM_SHA256",
    "clientProvidedHostHeader": "us-east-1.signin.aws.amazon.com"
  }
}
```

IAM user, sign-in process checks for MFA (multiple MFA device types)

The following shows that the sign-process checked whether multi-factor authentication (MFA) is required for an IAM user during sign-in. In this example, the `mfaType` value is `Multiple MFA Devices`, which indicates that the IAM user enabled multiple MFA device types.

```
{
  "eventVersion": "1.08",
  "userIdentity": {
    "type": "IAMUser",
    "principalId": "EXAMPLE6E4XEGITWATV6R",
    "accountId": "123456789012",
    "accessKeyId": "",
    "userName": "Mary"
  },
  "eventTime": "2023-07-19T23:10:09Z",
  "eventSource": "signin.amazonaws.com",
  "eventName": "CheckMfa",
  "awsRegion": "us-east-1",
  "sourceIPAddress": "192.0.2.0",
  "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:102.0) Gecko/20100101 Firefox/102.0",
  "requestParameters": null,
  "responseElements": {
    "CheckMfa": "Success"
  },
  "additionalEventData": {
    "MfaType": "Multiple MFA Devices"
  },
  "eventId": "19bd1a1c-76b1-4806-9d8f-EXAMPLE02a96",
  "readOnly": false,
  "eventType": "AwsConsoleSignIn",
  "managementEvent": true,
  "recipientAccountId": "123456789012",
  "eventCategory": "Management",
  "tlsDetails": {
    "tlsVersion": "TLSv1.3",
    "cipherSuite": "TLS_AES_128_GCM_SHA256",
    "clientProvidedHostHeader": "signin.aws.amazon.com"
  }
}
```

Example event records for root users

The following examples show event records for several `root` user sign-in scenarios. When you sign-in using the root user, CloudTrail records the `ConsoleLogin` event in us-east-1.

Topics

- [Root user, successful sign-in without MFA](#)
- [Root user, successful sign-in with MFA](#)
- [Root user, unsuccessful sign-in](#)
- [Root user, MFA changed](#)
- [Root user, password changed](#)

Root user, successful sign-in without MFA

The following shows a successful sign-in event for a root user not using multi-factor authentication (MFA).

```
{
  "eventVersion": "1.08",
  "userIdentity": {
    "type": "Root",
    "principalId": "111122223333",
    "arn": "arn:aws:iam::111122223333:root",
    "accountId": "111122223333",
    "accessKeyId": ""
  },
  "eventTime": "2023-07-12T13:35:31Z",
  "eventSource": "signin.amazonaws.com",
  "eventName": "ConsoleLogin",
  "awsRegion": "us-east-1",
  "sourceIPAddress": "192.0.2.0",
  "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/114.0.
  "requestParameters": null,
  "responseElements": {
    "ConsoleLogin": "Success"
  },
  "additionalEventData": {
    "LoginTo": "https://console.aws.amazon.com/console/home?hashArgs=%23&isauthcode=true&nc2=h_ct&src=header",
    "MobileVersion": "No",
    "MFAUsed": "No"
  },
  "eventID": "4217cc13-7328-4820-a90c-EXAMPLE8002e6",
  "readOnly": false,
  "eventType": "AwsConsoleSignIn",
  "managementEvent": true,
  "recipientAccountId": "111122223333",
  "eventCategory": "Management",
  "tlsDetails": {
    "tlsVersion": "TLSv1.3",
```

```
    "cipherSuite": "TLS_AES_128_GCM_SHA256",
    "clientProvidedHostHeader": "signin.aws.amazon.com"
  }
}
```

Root user, successful sign-in with MFA

The following shows a successful sign-in event for a root user using multi-factor authentication (MFA).

```
{
  "eventVersion": "1.08",
  "userIdentity": {
    "type": "Root",
    "principalId": "444455556666",
    "arn": "arn:aws:iam::444455556666:root",
    "accountId": "444455556666",
    "accessKeyId": ""
  },
  "eventTime": "2023-07-13T03:04:43Z",
  "eventSource": "signin.amazonaws.com",
  "eventName": "ConsoleLogin",
  "awsRegion": "us-east-1",
  "sourceIPAddress": "192.0.2.0",
  "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/114.0.0.0 Safari/537.36",
  "requestParameters": null,
  "responseElements": {
    "ConsoleLogin": "Success"
  },
  "additionalEventData": {
    "LoginTo": "https://ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1&state=hashArgs&source=signin",
    "MobileVersion": "No",
    "MFAIdentifier": "arn:aws:iam::444455556666:mfa/root-account-mfa-device",
    "MFAUsed": "Yes"
  },
  "eventID": "e0176723-ea76-4275-83a3-EXAMPLEf03fb",
  "readOnly": false,
  "eventType": "AwsConsoleSignIn",
  "managementEvent": true,
  "recipientAccountId": "444455556666",
  "eventCategory": "Management",
  "tlsDetails": {
    "tlsVersion": "TLSv1.3",
    "cipherSuite": "TLS_AES_128_GCM_SHA256",
    "clientProvidedHostHeader": "signin.aws.amazon.com"
  }
}
```

Root user, unsuccessful sign-in

The following shows an unsuccessful sign-in event for a root user not using MFA.

```
{
  "eventVersion": "1.08",
  "userIdentity": {
    "type": "Root",
    "principalId": "123456789012",
    "arn": "arn:aws:iam::123456789012:root",
    "accountId": "123456789012",
    "accessKeyId": ""
  },
  "eventTime": "2023-07-16T04:33:40Z",
  "eventSource": "signin.amazonaws.com",
  "eventName": "ConsoleLogin",
  "awsRegion": "us-east-1",
  "sourceIPAddress": "192.0.2.0",
  "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.
  "errorMessage": "Failed authentication",
  "requestParameters": null,
  "responseElements": {
    "ConsoleLogin": "Failure"
  },
  "additionalEventData": {
    "LoginTo": "https://us-east-1.console.aws.amazon.com/billing/home?region=us-east-1&state=hashArgs%23%2Fa
    "MobileVersion": "No",
    "MFAUsed": "No"
  },
  "eventID": "f28d4329-5050-480b-8de0-EXAMPLE07329",
  "readOnly": false,
  "eventType": "AwsConsoleSignIn",
  "managementEvent": true,
  "recipientAccountId": "123456789012",
  "eventCategory": "Management",
  "tlsDetails": {
    "tlsVersion": "TLSv1.3",
    "cipherSuite": "TLS_AES_128_GCM_SHA256",
    "clientProvidedHostHeader": "signin.aws.amazon.com"
  }
}
```

Root user, MFA changed

The following shows an example event for a root user changing multi-factor authentication (MFA) settings.

```
{
  "eventVersion": "1.08",
  "userIdentity": {
    "type": "Root",
    "principalId": "111122223333",
    "arn": "arn:aws:iam::111122223333:root",
    "accountId": "111122223333",
    "accessKeyId": "EXAMPLE4XX3IEV4PFQTH",
    "userName": "AWS ROOT USER",
    "sessionContext": {
      "sessionIssuer": {},
      "webIdFederationData": {},
      "attributes": {
        "creationDate": "2023-07-15T03:51:12Z",
        "mfaAuthenticated": "false"
      }
    }
  },
  "eventTime": "2023-07-15T04:37:08Z",
  "eventSource": "iam.amazonaws.com",
  "eventName": "EnableMFADevice",
  "awsRegion": "us-east-1",
  "sourceIPAddress": "192.0.2.0",
  "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.
  "requestParameters": {
    "userName": "AWS ROOT USER",
    "serialNumber": "arn:aws:iam::111122223333:mfa/root-account-mfa-device"
  },
  "responseElements": null,
  "requestID": "9b45cd4c-a598-41e7-9170-EXAMPLE535f0",
  "eventID": "b4f18d55-d36f-49a0-afcb-EXAMPLEc026b",
  "readOnly": false,
  "eventType": "AwsApiCall",
  "managementEvent": true,
  "recipientAccountId": "111122223333",
  "eventCategory": "Management",
  "sessionCredentialFromConsole": "true"
}
```

Root user, password changed

The following shows an example event for a root user changing their password.

```
{
  "eventVersion": "1.08",
  "userIdentity": {
```

```

    "type": "Root",
    "principalId": "444455556666",
    "arn": "arn:aws:iam::444455556666:root",
    "accountId": "444455556666",
    "accessKeyId": "EXAMPLEAOTKEG44KPW5P",
    "sessionContext": {
      "sessionIssuer": {},
      "webIdFederationData": {},
      "attributes": {
        "creationDate": "2022-11-25T13:01:14Z",
        "mfaAuthenticated": "false"
      }
    }
  },
  "eventTime": "2022-11-25T13:01:14Z",
  "eventSource": "iam.amazonaws.com",
  "eventName": "ChangePassword",
  "awsRegion": "us-east-1",
  "sourceIPAddress": "192.0.2.0",
  "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.
  "requestParameters": null,
  "responseElements": null,
  "requestID": "c64254c2-e4ff-49c0-900e-EXAMPLE9e6d2",
  "eventID": "d059176c-4f4d-4a9e-b8d7-EXAMPLE2b7b3",
  "readOnly": false,
  "eventType": "AwsApiCall",
  "managementEvent": true,
  "recipientAccountId": "444455556666",
  "eventCategory": "Management"
}

```

Example event records for federated users

The following examples show event records for federated users. Federated users are given temporary security credentials to access AWS resources through an [AssumeRole](#) request.

The following shows an example event for a federation encryption request. The original access key ID is provided in the `accessKeyId` field of the `userIdentity` element. The `accessKeyId` field in the `responseElements` contains a new access key ID if the requested `sessionDuration` is passed in the encryption request, otherwise it contains the value of the original access key ID.

Note

In this example, the `mfaAuthenticated` value is `false` and the `MFAUsed` value is `No` because the request was made by a federated user. These fields will only be set to true if the request was made by an IAM user or root user using MFA.

```
{
  "eventVersion": "1.08",
  "userIdentity": {
    "type": "AssumedRole",
    "principalId": "EXAMPLEUU4MH70YK5ZCOA:JohnDoe",
    "arn": "arn:aws:sts::123456789012:assumed-role/roleName/JohnDoe",
    "accountId": "123456789012",
    "accessKeyId": " originalAccessKeyID ",
    "sessionContext": {
      "sessionIssuer": {
        "type": "Role",
        "principalId": "EXAMPLEUU4MH70YK5ZCOA",
        "arn": "arn:aws:iam::123456789012:role/roleName",
        "accountId": "123456789012",
        "userName": "roleName"
      },
      "webIdFederationData": {},
      "attributes": {
        "creationDate": "2023-09-25T21:30:39Z",
        "mfaAuthenticated": "false"
      }
    }
  },
  "eventTime": "2023-09-25T21:30:39Z",
  "eventSource": "signin.amazonaws.com",
  "eventName": "GetSigninToken",
  "awsRegion": "us-east-1",
  "sourceIPAddress": "192.0.2.0",
  "userAgent": "Java/1.8.0_382",
  "requestParameters": null,
  "responseElements": {
    "credentials": {
      "accessKeyId": " accessKeyID "
    },
    "GetSigninToken": "Success"
  },
  "additionalEventData": {
    "MobileVersion": "No",
    "MFAUsed": "No"
  },
  "eventID": "1d66615b-a417-40da-a38e-EXAMPLE8c89b",
  "readOnly": false,
  "eventType": "AwsConsoleSignIn",
  "managementEvent": true,
  "recipientAccountId": "123456789012",
  "eventCategory": "Management",
}
```

```
"tlsDetails": {
  "tlsVersion": "TLSv1.3",
  "cipherSuite": "TLS_AES_128_GCM_SHA256",
  "clientProvidedHostHeader": "us-east-1.signin.aws.amazon.com"
}
}
```

The following shows a successful sign-in event for a federated user; not using multi-factor authentication (MFA).

```
{
  "eventVersion": "1.08",
  "userIdentity": {
    "type": "AssumedRole",
    "principalId": "EXAMPLEPHCNW7ZCASLJOH:JohnDoe",
    "arn": "arn:aws:sts::123456789012:assumed-role/ RoleName /JohnDoe",
    "accountId": "123456789012",
    "accessKeyId": "AKIAIOSFODNN7EXAMPLE",
    "sessionContext": {
      "sessionIssuer": {
        "type": "Role",
        "principalId": "EXAMPLEPHCNW7ZCASLJOH",
        "arn": "arn:aws:iam::123456789012:role/ RoleName ",
        "accountId": "123456789012",
        "userName": " RoleName "
      },
      "webIdFederationData": {},
      "attributes": {
        "creationDate": "2023-09-22T16:15:47Z",
        "mfaAuthenticated": "false"
      }
    }
  },
  "eventTime": "2023-09-22T16:15:47Z",
  "eventSource": "signin.amazonaws.com",
  "eventName": "ConsoleLogin",
  "awsRegion": "us-east-1",
  "sourceIPAddress": "192.0.2.0",
  "userAgent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome",
  "requestParameters": null,
  "responseElements": {
    "ConsoleLogin": "Success"
  },
  "additionalEventData": {
    "MobileVersion": "No",
    "MFAUsed": "No"
  },
}
```

```
"eventID": "b73f1ec6-c064-4cd3-ba83-EXAMPLE441d7",
"readOnly": false,
"eventType": "AwsConsoleSignIn",
"managementEvent": true,
"recipientAccountId": "123456789012",
"eventCategory": "Management",
"tlsDetails": {
  "tlsVersion": "TLSv1.3",
  "cipherSuite": "TLS_AES_128_GCM_SHA256",
  "clientProvidedHostHeader": "us-east-1.signin.aws.amazon.com"
}
}
```

Source: <https://docs.aws.amazon.com/awscloudtrail/latest/userguide/cloudtrail-event-reference-aws-console-sign-in-events.html>