



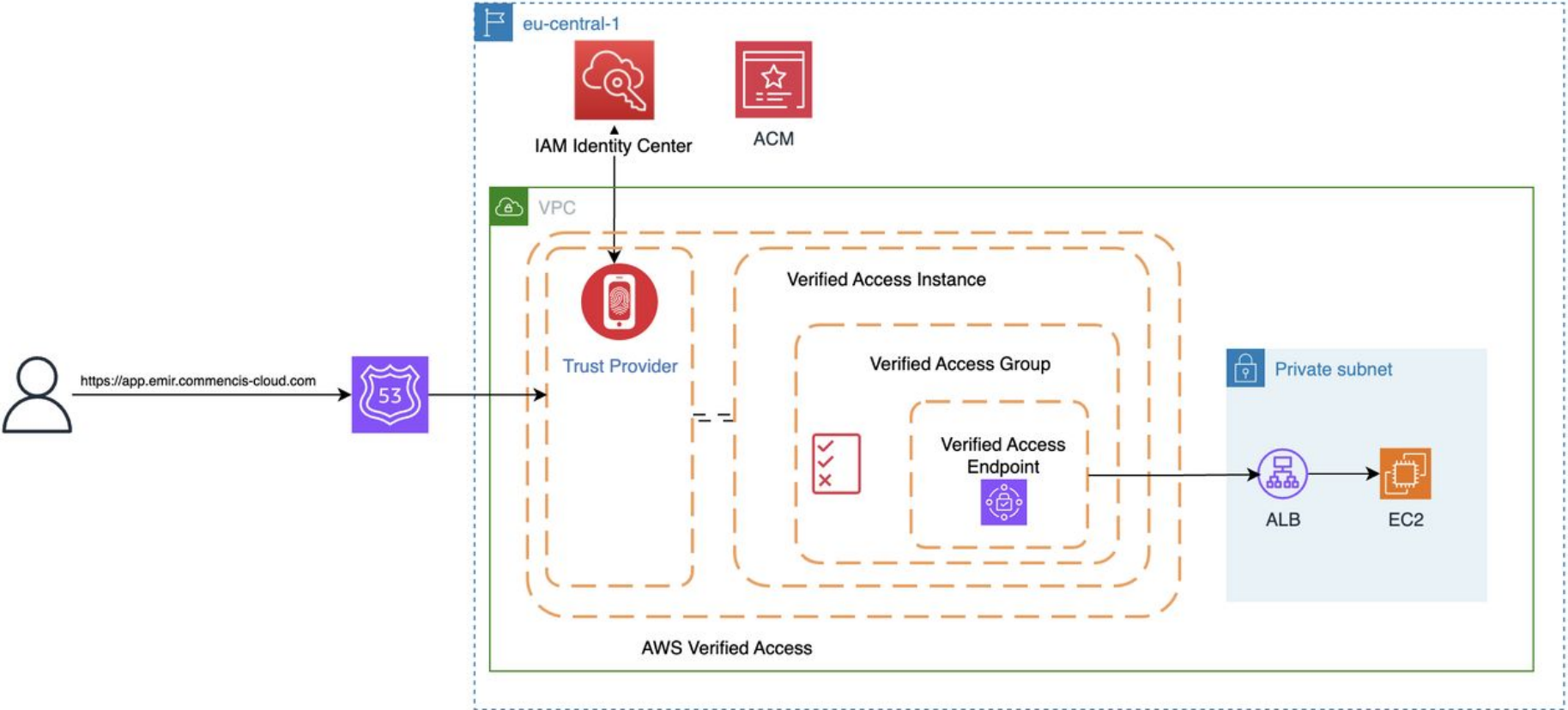
왜 AWS Verify Access를 사용한 걸까?

비싸지만 AWS Verify Access를 사용할 수밖에 없었던 비하인드 스토리

1. AVA(AWS Verify Access)이란?
2. AVA(AWS Verify Access) 이상과 현실
3. Q&A

AVA(AWS Verify Access)이란?

AVA란?



(1) Verified Access trust providers (vatp)

- User / Device Trust Provider

(2) Verified Access Instances (vai)

- vatp + Logging Configuration(Optional) + AWS WAF Integrations(Optional)

(3) Verified Access groups (vagr)

- vai + Policy(Optional)

(4) Verified Access endpoints(vae)

- vagr + Policy(Optional)

VPC > Verified Access trust providers > Create Verified Access trust provider

Create Verified Access trust provider [info](#)

Integrate with supported identity or device state management services.

Details - optional

Name tag

Creates a tag with a key of 'Name' and a value that you specify.

verified-access-trust-provider-01

Name must be 255 characters or less in length.

Description

description

Trust provider information

Policy reference name

The identifier to be used when working with policy rules.

Policy reference name

Trust provider type

Select a trust provider type.

☒ User trust provider

☐ Device trust provider

User trust provider type

Select an user trust provider type.

☒ IAM Identity Center

☐ OIDC (OpenID Connect)

IAM Identity Center status

☒ Enabled

Additional encryption - optional

Verified Access encrypts data at rest by default, using AWS owned KMS keys. Add an optional layer of encryption for this resource, by choosing a customer managed KMS key.

Your data is encrypted by default with a key that AWS owns and manages for you. To choose a different key, customize your encryption settings.

☐ Customize encryption settings (advanced)

Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

Add new tag

You can add 50 more tags.

Cancel

Create Verified Access trust provider

VPC > Verified Access trust providers > Create Verified Access trust provider

Create Verified Access trust provider [info](#)

Integrate with supported identity or device state management services.

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Policy reference name

The identifier to be used when working with policy rules.

Policy reference name

Trust provider type

Select a trust provider type.

☒ User trust provider

☐ Device trust provider

User trust provider type

Select an user trust provider type.

☐ IAM Identity Center

☒ OIDC (OpenID Connect)

Issuer

The identifier that the identity provider includes in the tokens used for authentication and authorization.

Issuer

Authorization endpoint

The identity provider's endpoint used to authenticate users and send authorization codes.

Authorization endpoint

This must be a full URL, including the HTTPS protocol, the domain, and the path.

Token endpoint

The identity provider's endpoint used to exchange authorization codes for access tokens.

Token endpoint

This must be a full URL, including the HTTPS protocol, the domain, and the path.

User endpoint

The identity provider's endpoint used to obtain user information using the access token.

User endpoint

This must be a full URL, including the HTTPS protocol, the domain, and the path.

Client ID

The OAuth 2.0 client identifier.

Client ID

Client secret

The OAuth 2.0 client secret.

Client secret

Scope

Space-delimited list of scopes determines the permissions associated with the access tokens. This is the user information available when authorizing a request against a policy.

Scope

Additional encryption - optional

Verified Access encrypts data at rest by default, using AWS owned KMS keys. Add an optional layer of encryption for this resource, by choosing a customer managed KMS key.

Your data is encrypted by default with a key that AWS owns and manages for you. To choose a different key, customize your encryption settings.

☐ Customize encryption settings (advanced)

Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

Add new tag

You can add 50 more tags.

Cancel

Create Verified Access trust provider

VPC > Verified Access trust providers > Create Verified Access trust provider

Create Verified Access trust provider [info](#)

Integrate with supported identity or device state management services.

Details - optional

Name tag

Creates a tag with a key of 'Name' and a value that you specify.

verified-access-trust-provider-01

Name must be 255 characters or less in length.

Description

description

Trust provider information

Policy reference name

The identifier to be used when working with policy rules.

Policy reference name

Trust provider type

Select a trust provider type.

☐ User trust provider

☒ Device trust provider

Device trust provider type

Select a device trust provider type.

Jamf

Jamf

Crowdstrike

JumpCloud

Additional encryption - optional

Verified Access encrypts data at rest by default, using AWS owned KMS keys. Add an optional layer of encryption for this resource, by choosing a customer managed KMS key.

Your data is encrypted by default with a key that AWS owns and manages for you. To choose a different key, customize your encryption settings.

☐ Customize encryption settings (advanced)

Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

Add new tag

You can add 50 more tags.

Cancel

Create Verified Access trust provider

AVA란? - vatp

VPC > Verified Access trust providers > [redacted] > Modify Verified Access trust provider

Modify Verified Access trust provider [info](#)

Integrate with supported identity or device state management services.

Details

Verified Access trust provider ID

The name of this resource can be changed in [Manage tags](#).

vatp: [redacted]

Description - optional

[redacted]

Trust provider information

Trust provider type

user

User trust provider type

oidc

Issuer

The identifier that the identity provider includes in the tokens used for authentication and authorization.

[redacted]

Authorization endpoint

The identity provider's endpoint used to authenticate users and vend authorization codes.

[redacted]/oauth2/v1/authorize

This must be a full URL, including the HTTPS protocol, the domain, and the path.

Token endpoint

The identity provider's endpoint used to exchange authorization codes for access tokens.

[redacted]/oauth2/v1/token

This must be a full URL, including the HTTPS protocol, the domain, and the path.

User endpoint

The identity provider's endpoint used to obtain user information using the access token.

[redacted]/oauth2/v1/userinfo

This must be a full URL, including the HTTPS protocol, the domain, and the path.

Client ID

The OAuth 2.0 client identifier.

[redacted]

Client secret

The OAuth 2.0 client secret.

[redacted]

Scope

Space-delimited list of scopes determines the permissions associated with the access token. This is the user information available when authorizing a request against a policy.

openid profile groups

Additional encryption - optional

Verified Access encrypts data at rest by default, using AWS owned KMS keys. Add an optional layer of encryption for this resource, by choosing a customer managed KMS key.

Your data is encrypted by default with a key that AWS owns and manages for you. To choose a different key, customize your encryption settings.

☐ Customize encryption settings (advanced)

Cancel

Create Verified Access trust provider

VPC > Verified Access trust providers > Create Verified Access trust provider

Create Verified Access trust provider [info](#)

Integrate with supported identity or device state management services.

Details - optional

Name tag

Create a tag with a key of "Name" and a value that you specify.

verified-access-trust-provider-01

Name must be 255 characters or less in length.

Description

[redacted]

Trust provider information

Policy reference name

The identifier to be used when working with policy rules.

[redacted]

Trust provider type

Select a trust provider type.

- ☒ User trust provider
☐ Device trust provider

User trust provider type

Select an user trust provider type.

- ☒ IAM Identity Center
☐ OIDC (OpenID Connect)

IAM Identity Center status

Enabled

Additional encryption - optional

Verified Access encrypts data at rest by default, using AWS owned KMS keys. Add an optional layer of encryption for this resource, by choosing a customer managed KMS key.

Your data is encrypted by default with a key that AWS owns and manages for you. To choose a different key, customize your encryption settings.

☐ Customize encryption settings (advanced)

Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

Add new tag

You can add 50 more tags.

Cancel

Create Verified Access trust provider

Modify Verified Access trust provider [info](#)

Integrate with supported identity or device state management services.

Details

Verified Access trust provider ID

The name of this resource can be changed in [Manage tags](#).

vatp- [redacted]

Description - optional

[redacted]

Trust provider information

Trust provider type

user

User trust provider type

oidc

Issuer

The identifier that the identity provider uses to identify the user.

Authorization endpoint

The identity provider's endpoint for authorization.

This must be a full URL, including the protocol and path.

Token endpoint

The identity provider's endpoint for token exchange.

User endpoint

The identity provider's endpoint for user information.

This must be a full URL, including the protocol and path.

Client ID

The OAuth 2.0 client identifier.

Client secret

The OAuth 2.0 client secret.

[redacted]

Scope

Space-delimited list of scopes determines the permissions associated with the access token. This is the user information available when authorizing a request against a policy.

openid profile groups

Additional encryption - optional

Verified Access encrypts data at rest by default, using AWS owned KMS keys. Add an optional layer of encryption for this resource, by choosing a customer managed KMS key.

Your data is encrypted by default with a key that AWS owns and manages for you. To choose a different key, customize your encryption settings.

☐ Customize encryption settings (advanced)

Cancel

Modify Verified Access trust provider

Create Verified Access trust provider [info](#)

Integrate with supported identity or device state management services.

Details - optional

Name tag


Create a tag with a key of 'Name' and a value that you specify.

verified-access-trust-provider-01

Name must be 255 characters or less in length.

Description

[redacted]

 An error occurred while trying to deleting Verified Access trust provider. VerifiedAccessTrustProvider has existing attachments. Please remove all VerifiedAccessTrustProvider attachments before deleting.

Verified Access trust providers (1/2) [info](#)



Actions 

Create Verified Access trust provider



Find Verified Access trust provider by attribute or tag



1



Verified Access encrypts data at rest by default, using AWS owned KMS keys. Add an optional layer of encryption for this resource, by choosing a customer managed KMS key.

Your data is encrypted by default with a key that AWS owns and manages for you. To choose a different key, customize your encryption settings.

☐ Customize encryption settings (advanced)

Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

[Add new tag](#)

You can add 50 more tags.

Cancel

Create Verified Access trust provider

Create Verified Access instance [Info](#)

A Verified Access Instance is a regional AWS entity that evaluates application requests and grants access only when your security requirements are met.

Details - optional

Name tag

Creates a tag with a key of 'Name' and a value that you specify.

Name must be 255 characters or less in length.

Description

Attach Verified Access trust provider - optional

Verified Access trust provider

Select a trust provider to attach to your Verified Access instance.

[Create a Verified Access trust provider](#)

Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

Add new tag

You can add 50 more tags.

Cancel

Create Verified Access instance

AVA란? - vai

VPC > Verified Access Instances > Create Verified Access Instance

Create Verified Access instance [Info](#)

A Verified Access Instance is a regional AWS entity that evaluates application requests and grants access only when your security requirements are met.

Details - optional

Name tag

Creates a tag with a

Name must be 255 c

Description

Verified Access instances (1/1) [Info](#)



Actions ▲

Create Verified Access instance

- Modify Verified Access instance
- Attach Verified Access trust provider
- Detach Verified Access trust provider
- Manage tags
- Delete Verified Access instance

1 > ⚙

Attach Verifie

Name ✎



Verified

Verified Access tr

Select a trust provid

[Create a Verified](#)

Tags - option

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

You can add 50 more tags.

Cancel

Create Verified Access instance

AVA란? - vai

Verified Access instances (1/1) Info

Refresh

Actions

Create Verified Access Instance

< 1 >

Settings

Name	Verified Access instance ID	Description	Verified Access trust provid...	La
	va-	-	2 Verified Access trust providers	Se

va-

Details

Verified Access groups

Verified Access trust providers

Verified Access in

Verified Access trust providers (2)

Detach Verified

Verified Access trust provider ID	Description	Trust provi
vatp-	-	user
vatp-	-	device

An error occurred while trying to detach trust provider.

VerifiedAccessInstance va- is not empty. Please remove all VerifiedAccessGroups before attaching or detaching a VerifiedAccessTrustProvider with TrustProviderType user

Verified Access instances (1/1) Info

Refresh

Actions

Create Verified Access Instance

< 1 >

Settings

Name	Verified Access instance ID	Description	Verified Access trust provid...	La
	va-	-	2 Verified Access trust providers	Se

va-

Details

Verified Access groups

Verified Access trust providers

Verified Access Instance logging configuration

Integrations New

Tags

Verified Access trust providers (2)

Detach Verified Access trust provider

Attach Verified Access trust provider

< 1 >

Settings

Verified Access trust provider ID	Description	Trust provider type	User type	Device type
vatp-	-	user	oldc	-
vatp-	-	device	-	crowdstrike

AVA란? - vai

Verified Access trust provider vatp-[REDACTED]692c, was successfully detached from Verified Access instance vai-[REDACTED]

Verified Access instances 1/1

Info

Find Verified Access instance by attribute or tag

< 1 >

Name	Verified Access instance ID	Description	Verified Access trust provid...	La
[REDACTED]	vai-[REDACTED]	-	2 Verified Access trust providers	Se

vai-[REDACTED]

=

Details

Verified Access groups

Verified Access trust providers

Verified Access instance logging configuration

Integrations New

Tags

Verified Access trust providers (2)

Detach Verified Access trust provider

Attach Verified Access trust provider

Filter by Verified Access trust provider ID

< 1 >

Verified Access trust provider ID	Description	Trust provider type	User type	Device type
vai-[REDACTED]	-	user	oidc	-
vai-[REDACTED]692c	-	device	-	crowdstrike



Modify Verified Access instance logging configuration [Info](#)

Modify the configurations for your access logs, which contain details about the access requests made to your apps using Verified Access.

Details

Verified Access instance ID

val-

Access logs configuration

Update log version

ocsf-1.0.0-rc.2

☒ Include trust context - new

Include claims from trust provider with logs to easily validate and troubleshoot access policies. You must update the log version to ocsf-1.0.0-rc.2 to turn this feature on. [Learn more](#)

☒ Deliver to Amazon CloudWatch Logs

Analyze, query and set alarms on the logs.

Log group

To create a new log group, [visit Amazon CloudWatch Logs console](#)

☐ Deliver to Amazon S3

Store and retrieve raw logs in object storage.

☐ Deliver to Amazon Kinesis Data Firehose

Capture, transform, and deliver logs to Amazon Elasticsearch Service or other Kinesis Data Firehose destinations.

Cancel

Modify configurations

AVA란? - vai

VPC > Verified Access instances > vai- [redacted] > Modify Verified Access instance logging configuration

Modify Verified Access instance logging configuration [Info](#)

Modify the configurations for your access logs, which contain details about the access requests made to your apps using Verified Access.

Details

Log streams

Tags

Anomaly detection

Metric filters

Subscription filters

Contributor Insights

Data protection

Log streams (22)

Filter log streams or try prefix search

<input type="checkbox"/>	Log stream	Last event time
<input type="checkbox"/>	vai-[redacted]-unknown-unknown-access-log-[redacted]	2024-09-23 13:58:05 (UTC+09:00)
<input type="checkbox"/>	vai-[redacted]-unknown-unknown-access-log-[redacted]	2024-09-23 13:48:05 (UTC+09:00)

vae edge domain IP

- ☒ Deliver to Amazon S3
Store and retrieve raw logs in object storage.
- ☐ Deliver to Amazon Kinesis Data Firehose
Capture, transform, and deliver logs to Amazon Elasticsearch Service or other Kinesis Data Firehose destinations.

vai-

Integrations **New**

Tags



Actions ▼

[Create Web ACL](#)

Help protect your associated Verified Access endpoints by enabling AWS WAF directly on your Verified Access instance.

```

    "hostname": "10.10.10.10",
    "path": "/cgi-bin/./stok/Location",
    "port": 80,
    "query": "form=country&operation=write&country=id%3E%60for+pid+in+%2Fproc%2F%5B9%5D%2A%2F%3B+d+op%3D%2A47b%3D%25%2F%7D%3B+pid%3D%2A47b%3D%23%3A%2A%2F%7D%3B+exe_path%3D%2A%28%1s%1+%2Fproc%2F%24pid%24id+exe+%23%E%2Fdev%2Fnull+%7C+awk+%27%7Bprint+%24NF%7D%27%29%3B+if+%5B%5B+%24exe_path%24pid%3B+if+%5B%3B+done%3B%60\"",
    "scheme": "http",
    "text": "http://43.201.174.119:80/cgi-bin/./stok/Location?form=country&operation=write&country=id%3E%60for+pid+in+%2Fproc%2F%5B9%5D%2A%2F%3B+d+op%3D%2A47b%3D%25%2F%7D%3B+pid%3D%2A47b%3D%23%3A%2A%2F%7D%3B+exe_path%3D%2A%28%1s%1+%2Fproc%2F%24pid%24id+exe+%23%E%2Fdev%2Fnull+%7C+awk+%27%7Bprint+%24NF%7D%27%29%3B+if+%5B%5B+%24exe_path%24pid%3B+if+%5B%3B+done%3B%60"
  }
}

```

eb ACL

```
{
  "activity_id": "2",
  "activity_name": "Access Deny",
  "actor": null,
  "category_name": "Audit Activity",
  "category_uid": "3",
  "class_name": "Access Activity",
  "class_uid": "3006",
  "data": {
    "access_path": "public"
  },
  "device": null,
  "duration": "0.0",
  "end_time": "1727064363269",
  "time": "1727064363269",
  "http_request": {
    "http_method": "HEAD",
    "url": {
      "hostname": "10.10.10.10",
      "path": "/Core/Skin/Login.aspx",
      "port": 80,
      "scheme": "http",
      "text": "http://10.10.10.10/Core/Skin/Login.aspx"
    }
  },
  "user_agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/106.0.0.0 Safari/537.36",
  "version": "HTTP/1.1"
},
}
```

```

{
  "hostname": "10.10.10.10",
  "path": "/Core/Skin/Login.aspx",
  "port": 80,
  "scheme": "http",
  "text": "http://10.10.10.10/Core/Skin/Login.aspx"
}

```

AVA란? - vagr

VPC > Verified Access groups > Create Verified Access group

Create Verified Access group [Info](#)

A Verified Access group is a collection of Verified Access endpoints whose associated applications have similar security requirements.

Details - optional

Name tag

Creates a tag with a key of 'Name' and a value that you specify.

verified-access-group-01

Name must be 255 characters or less in length.

Description

description

Verified Access instance

Verified Access instance

Select a Verified Access instance to attach to your Verified Access group.

Select a Verified Access instance

Policy details - optional

Policy definition

All Verified Access endpoints (associated applications) within this group will inherit this policy. This means the policy will apply to all access requests belonging to applications in this group. [Visit the permissions playground to learn more](#)

1

Cedar Line 1, Column 1 Errors: 0 Warnings: 0

Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

Add new tag

You can add 50 more tags.

Cancel

Create Verified Access group

Verified Access groups (1/1) [Info](#)

Find Verified Access group by attribute or tag

< 1 >

Name

Verified Access group ID

Verified Access insta...

Description

vagr-

vagr-

val-

-

vagr-

Policy

Verified Access endpoints

Tags

Policy details

Modify Verified Access group policy

Policy enabled


Enabled

Policy document

permit(principal,action,resource)
when {
context.okta-.groups.contains()
};

AVA란? - vagr

Example 1: Creating policies for IAM Identity Center

 **Note**

As group names can be changed, IAM Identity Center refers to groups using their group ID. This helps avoid breaking a policy statement when changing the name of a group.

The following example policy allows access only when a user belongs to the `finance` group (which has group ID of `c242c5b0-6081-1845-6fa8-6e0d9513c107`) and has a verified email address.

```
permit(principal,action,resource)
when {
    context.<policy-reference-name>.groups has "c242c5b0-6081-1845-6fa8-6e0d9513c107"
    && context.<policy-reference-name>.user.email.verified == true
};
```

Example 1b: Adding more conditions to a policy statement for IAM Identity Center

The following example policy allows access only when a user belongs to the `finance` group (which has group ID of `c242c5b0-6081-1845-6fa8-6e0d9513c107`) and the Jamf device risk score is `LOW`.

```
permit(principal,action,resource)
when {
    context.<policy-reference-name>.groups has "c242c5b0-6081-1845-6fa8-6e0d9513c107"
    && context.<policy-reference-name>.user.email.verified == true
    && context.jamf.risk == "LOW"
};
```

Example 2: The same policy for a 3rd party OIDC provider

The following example policy allows access only when the user is from the "finance" group, they have a verified email address, and the Jamf device risk score is `LOW`.

```
permit(principal,action,resource)
when {
    context.<policy-reference-name>.groups.contains("finance")
    && context.<policy-reference-name>.email_verified == true
    && context.jamf.risk == "LOW"
};
```

Example 3: Using CrowdStrike

The following example policy allows access when the overall assessment score is greater than 50.

```
permit(principal,action,resource)
when {
    context.crowdstrike.assessment.overall > 50
};
```

Example 4: Working with special characters

The following example shows how to write a policy if a context property is using a `:` (semicolon), which is a reserved character in the policy language.

```
permit(principal, action, resource)
when {
    context.<policy-reference-name>["namespace:groups"].contains("finance")
};
```

Example 5: Allow a specific IP address

The following example shows a policy that allows only a specific IP address.

```
permit(principal, action, resource)
when {
    context.http_request.client_ip == "192.0.2.1"
};
```

Example 5a: Block a specific IP address

The following example shows a policy that will block a specific IP address.

```
forbid(principal,action,resource)
when {
    ip(context.http_request.client_ip).isInRange(ip("192.0.2.1/32"))
};
```

AVA란? - vagr

Verified Access instances (1) [Info](#)

Actions

Create Verified Access instance

Find Verified Access instance by attribute or tag

< 1 >

Name	Verified Access instance ID	Description	Verified Access trust providers
<div>okta_test</div>	<div>val-<div></div></div>	-	vatp-031e26821058e8b0

VPC > [Verified Access instances](#) >

vai-

Actions

Launch policy assistant

Details

Verified Access instance ID

val-

Description

-

Creation time

September 22, 2024, 21:03 (UTC +09:00)

Verified Access trust providers

[vatp-](#)

Last updated time

September 23, 2024, 14:22 (UTC +09:00)

< [Verified Access groups](#) | [Verified Access trust providers](#) | [Verified Access instance logging configuration](#) | [Integrations](#)

New

 >

Verified Access groups (1) [Info](#)

Create Verified Access group

Find Verified Access group by attribute or tag

< 1 >

Name	Verified Access group ID	Verified Access instance ID	Description
<div><div></div></div>	vagr-<div></div>	val-<div></div>	-

VPC > Verified Access instances > vai[REDACTED] > Launch policy assistant

Step 1
Specify your resources

Step 2
Edit policies

Step 3
Review and apply new changes to the policies

Specify your resources

[Learn more](#)

Details

User email address

Provide the email of the user.

Enter email address

Verified Access endpoint

Select the Verified Access endpoint.

Verified Access endpoint

Name - optional

Provide the name of the user.

Enter name

Name must be 255 characters or less in length.

Device identifier - optional

Provide the unique device identifier of the device.

Enter device

Device identifier must be 100 characters or less in length.

Authorization result

Retrieves the most recently logged authorization result for the specified user. You can optionally choose latest allow or deny result specifically.

☒ Latest authorization result

☐ Latest allow result

☐ Latest deny result

Cancel

Next

Create Verified Access endpoint [Info](#)

A Verified Access endpoint is a regional resource that specifies the application which AWS Verified Access will be providing access to.

Details - optional

Name tag

Creates a tag with a key of 'Name' and a value that you specify.

verified-access-endpoint-01

Name must be 255 characters or less in length.

Description

description

Verified Access group details

Verified Access group

Associate your Verified Access endpoint to a Verified Access group.

Select a Verified Access group

Endpoint details

Protocol

☒ HTTPS

☐ HTTP

Attachment type

The type of network component.

Select attachment type

Endpoint type

The type of Verified Access endpoint to create.

Select endpoint type

Security groups

The security groups to associate with the AWS Verified Access endpoint.

Select security groups

Endpoint domain prefix

A custom identifier that gets prepended to a DNS name that is generated for the end

Endpoint domain prefix

Application details

Application domain

The DNS name for users to reach your application.

Application domain

Domain certificate ARN

The ARN of a public TLS/SSL certificate imported into or created with ACM. Visit [Amazon ACM console](#)

Select a domain certificate ARN

Policy details - optional

Policy definition

Your Verified Access endpoint will inherit its Verified Access group level policy. You can modify your policy after creating your Verified Access endpoint. Visit the [permissions playground to learn more](#)

1

Cedar Line 1, Column 1 Errors: 0 Warnings: 0

Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

Add new tag

You can add 50 more tags.

Cancel

Create Verified Access endpoint

Modify Verified Access endpoint [Info](#)

A Verified Access endpoint is a regional resource that specifies the application which AWS Verified Access will be providing access to.

Details

Verified Access endpoint ID

The name of this resource can be changed in [Manage tags](#)

vae-

Description - optional

description

Verified Access group details

Verified Access group

Associate your Verified Access endpoint to a Verified Access group.

vagr-

Endpoint details

Endpoint type

load-balancer

Port

80

Subnet

Select subnet(s) associated with your load balancer.

Select subnets

subnet-

subnet-

Cancel

Modify Verified Access endpoint

AVA란? - vae

You successfully modified vae-

Verified Access endpoints (1/1) Info

Find Verified Access endpoint by attribute or tag

< 1 > ⚙

Name

Verified Access endpoint ID

Status

Description

vae-

Updating

-

You successfully modified the policy for vae-

Verified Access endpoints (1) Info

Find Verified Access endpoint by attribute or tag

< 1 > ⚙

Name

Verified Access endpoint ID

Status

Description

Updating

-

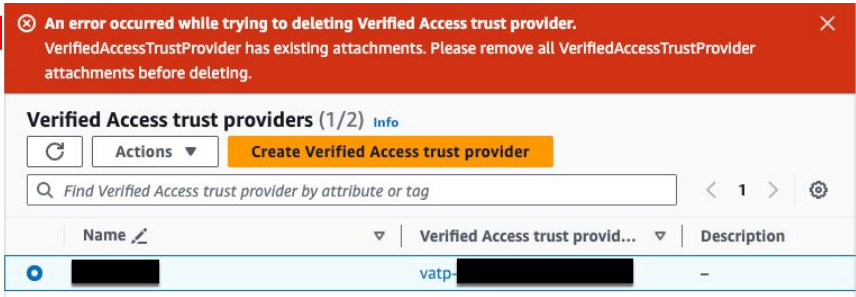
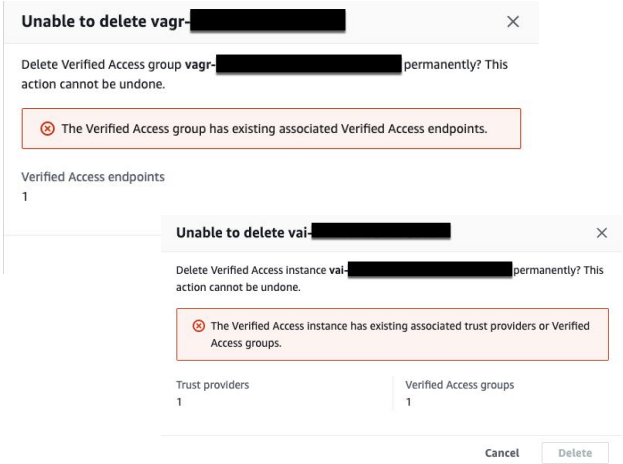
(1) Verified Access endpoints(vae)

(2) Verified Access groups (vagr)

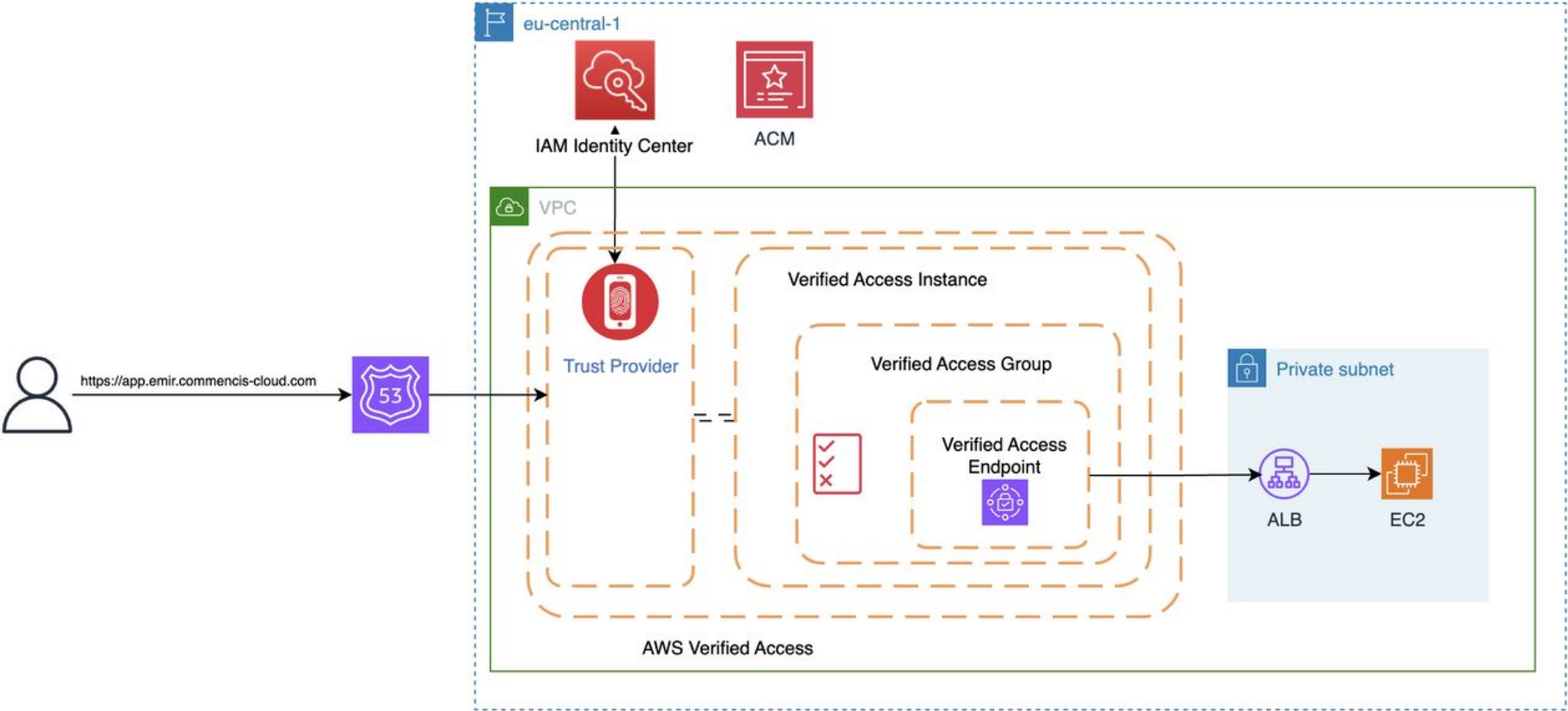
(3) Verified Access Instances (vai)

- Detach Verified Access trust provider로 vatp 연결 해제

(4) Verified Access trust providers (vatp) - Option

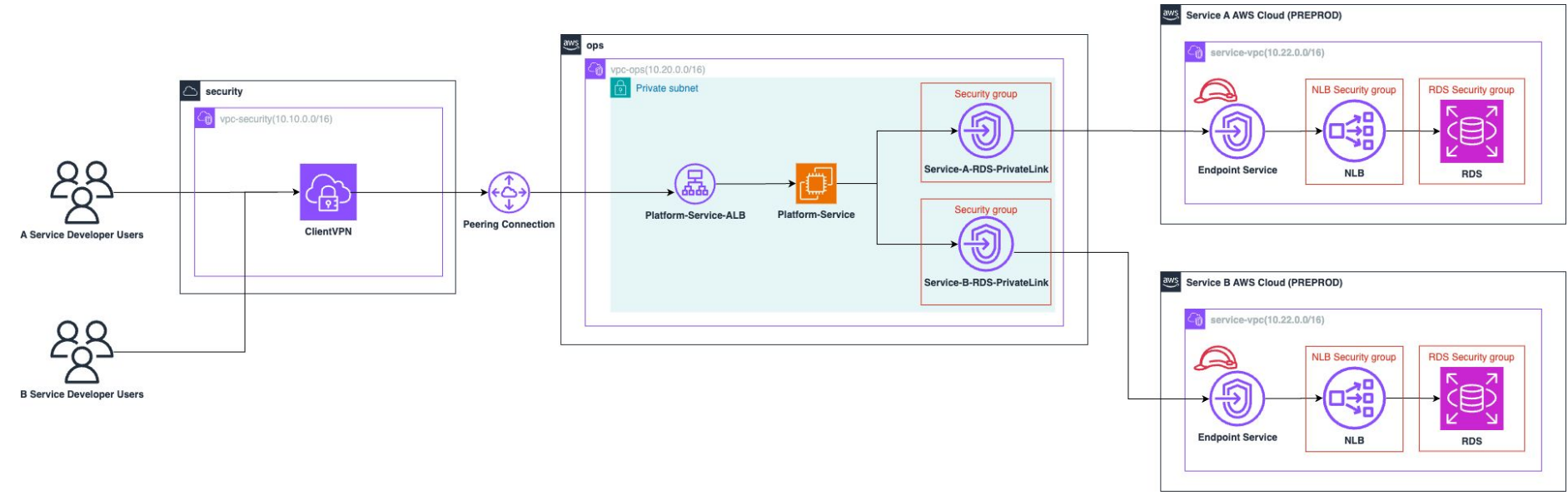


AVA란?

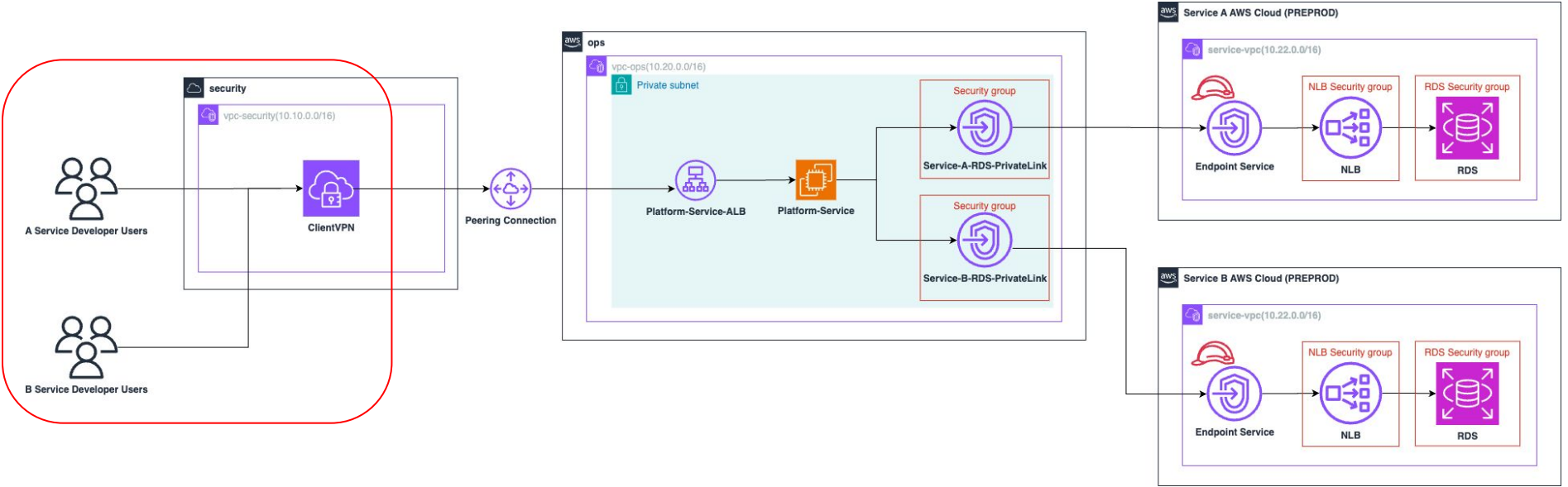


AVA(AWS Verify Access) 이상과 현실

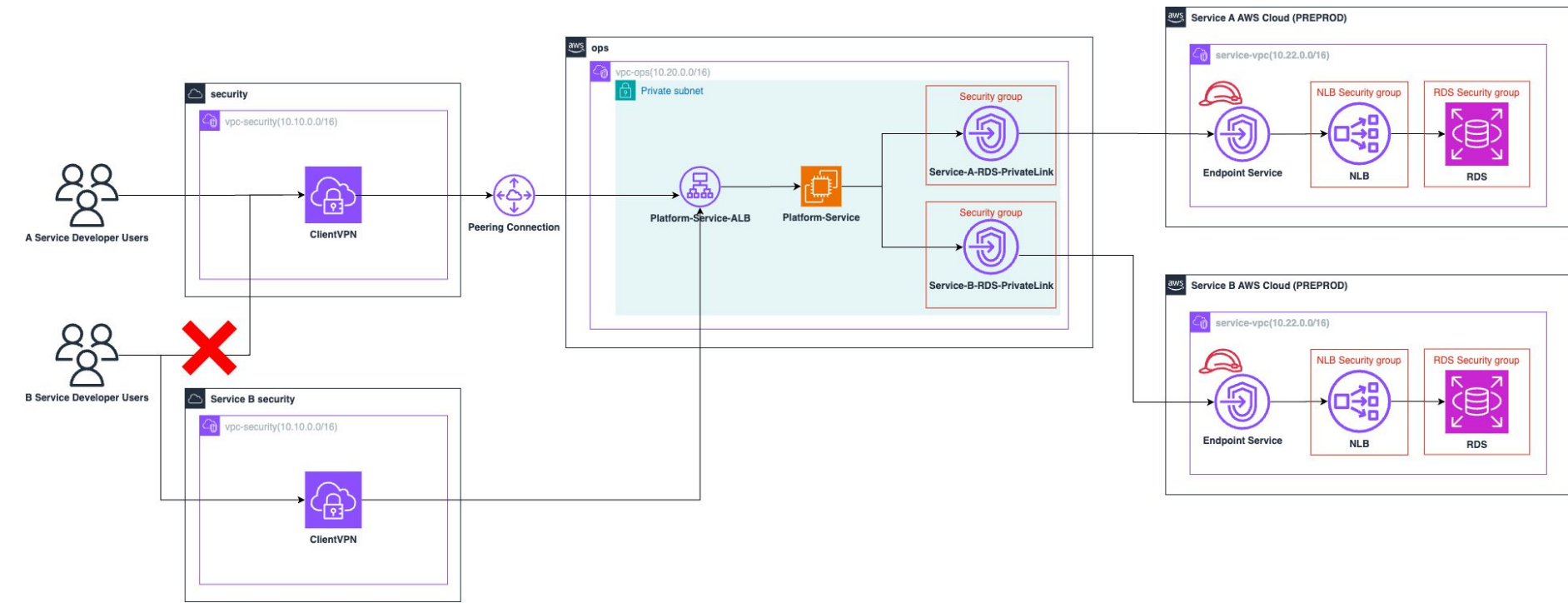
AS-IS

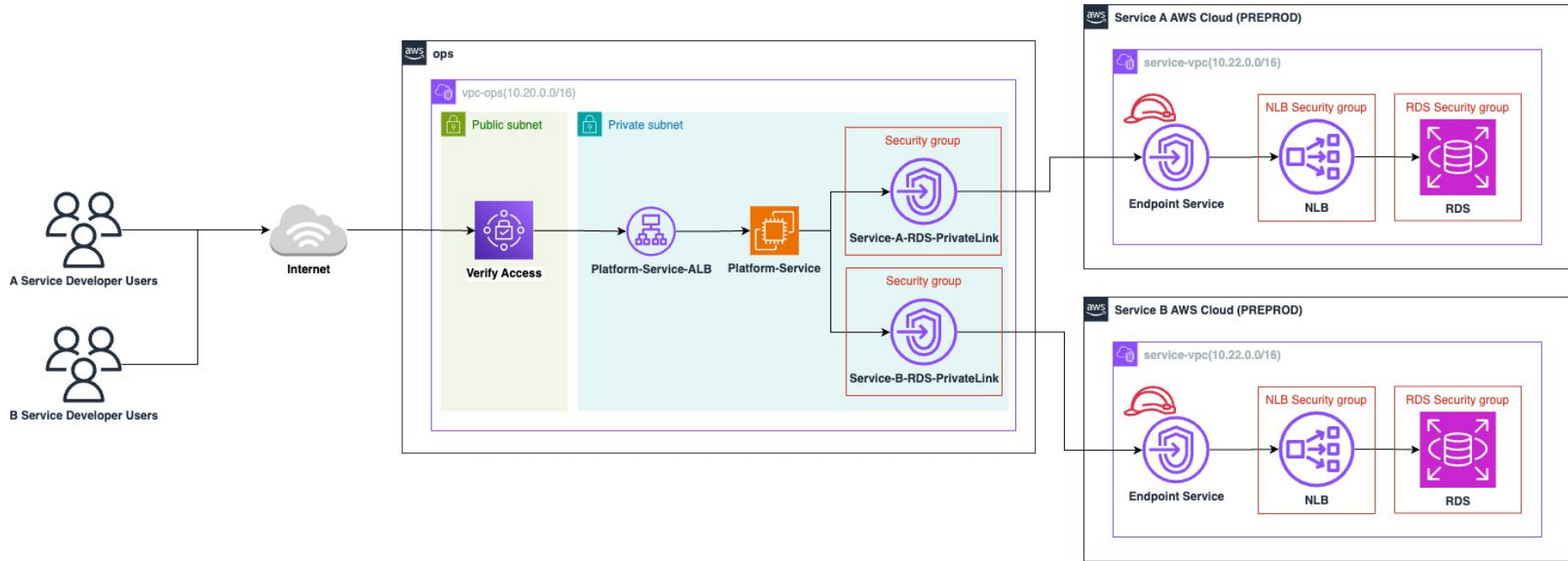


AS-IS



AS-IS





Troubleshooting

1	me	Status
2	authorize?client_id=0oajumpw2JlMrPZlr5d7&redirect_...I%2FUECDQTYpUvJdMEqz0...	302
	okta-sign-in.min.js	200
	okta-sign-in.min.css	200
	loginpage-theme.c8c15f6857642c257bcd94823d968bb1.css	200
	style-sheet?touch-point=SIGN_IN_PAGE&v=f991ebb043f...b8969a14da06b2d45c27...	200
	default.6770228fb0dab49a1695ef440a5279bb.png	200
	okta-logo.1e146cad5713da744492be95eb0f7793.png	200
	initLoginPage.pack.58de3be0c9b511a0fd7ea4f69b56fc.js	200
	Aeonik-Regular.c672e6fbbaa411f5719f3.woff2	200
	Inter-Regular.c8ba52b05a9ef10f4758.woff2	200
	iframe.html	200
	introspect	200
	favicon.ico	200
	discoveryiframe-17abdf702560067430e5.min.js	200
	checkbox-sign-in-widget.png	200
	Inter-SemiBold.b5f0f109bc88052d4000.woff2	200
	okticon.woff	200
3	montserrat-okta-light-webfont.woff	200
	montserrat-okta-regular-webfont.woff	200
	devicefingerprint	200
	fingerprint2.min.68ab45bd98459cb766f3ab26d086e5f5.js	200
	crypto-js.eac8c800a39bc533f58390e6c0eef9bf.js	200
	jquery-1.12.4.2ef93d9aedc4198ec425a799a371292d.js	200
	nonce	200
	identify	200
	oktaVerify_70x70.png	200
	user-icon.svg	200
	answer	200
4	sign-on-widget-spinner.gif	200
	redirect?stateToken=02.id.eNFGgF...NiA1z3btz	302
	idresponse?code=J...tubUF...I%2FUECDQTYpUvJdM...	302
	(failed) net::ERR_HTTP_RESPONSE_CODE_FAILURE	
	data:image/png;base...	200
	data:image/png;base...	200
	data:image/png;base...	200



에 대한 액세스가 거부됨

이 페이지를 볼 수 있는 권한이 없습니다.

HTTP ERROR 403

새로고침

Troubleshooting

Event Info	Targets
User single sign on to app SUCCESS	OpenID Connect Client (AppInstance) [REDACTED] (AppUser)
Verify user identity SUCCESS	Password (AuthenticatorMethod) Okta Verify (AuthenticatorMethod) 1 more targets
User login to Okta SUCCESS	Password (AuthenticatorEnrollment) OpenID Connect Client (AppInstance)
Evaluation of sign-on policy CHALLENGE	OpenID Connect Client (AppInstance) Default Rule (Rule) 1 more targets
User single sign on to app SUCCESS	OpenID Connect Client (AppInstance) [REDACTED] (AppUser)
Evaluation of sign-on policy ALLOW	OpenID Connect Client (AppInstance) Catch-all Rule (Rule)
User single sign on to app SUCCESS	OpenID Connect Client (AppInstance) [REDACTED] (AppUser)
Verify user identity SUCCESS	Password (AuthenticatorMethod) [REDACTED] (AppInstance)
Evaluation of sign-on policy CHALLENGE	OpenID Connect Client (AppInstance) Catch-all Rule (Rule)

```
{
  "activity_id": "2",
  "activity_name": "Access Deny",
  "actor": {
    "authorizations": []
  },
  "category_name": "Audit Activity",
  "category_uid": "3",
  "class_name": "Access Activity",
  "class_uid": "3006",
  "data": {
    "context": {},
    "access_path": "public"
  },
}
```

Troubleshooting

▼ 🔍 2024-09-22T07:28:04.286Z {"activity_id": "1", "activity_name": "Access Grant", "actor": {"authorizations": ...} [Link](#)

```
class_name : Access Activity ,  
"class_uid": "3006",  
"data": {
```

```
  "context": {
```

```
    "okta": {
```

```
      "sub"
```

```
      "name"
```

```
      "local"
```

```
      "email"
```

```
      "prefer"
```

```
      "given"
```

```
      "fami"
```

```
      "zone"
```

```
      "updat"
```

```
      "email"
```

```
      "group"
```

```
      "d"
```

```
    ],
```

```
    "exp"
```

```
    "iss"
```

```
  },
```

Troubleshooting

vagr [redacted]

=



Details | **Policy** | Verified Access endpoints | Tags

Policy details

Modify Verified Access group policy

Policy enabled

✓ Enabled

Policy document

```
permit(principal,action,resource)
when {
  context.[redacted].groups.contains([redacted])
};
```

OpenID Connect ID Token

Edit

Issuer	Okta URL [redacted]
Audience	[redacted]
Claims	Claims for this token include all user attributes on the app profile.
Groups claim type	Filter
Groups claim filter ?	groups Matches regex .* Using Groups Claim

Troubleshooting

When you [create a Verified Access group](#) or [create a Verified Access endpoint](#), you have the option to define the Verified Access policy. You can create a group or endpoint without defining the Verified Access policy, but all access requests will be blocked until you define a policy. Alternatively, you can add or change a policy on an existing Verified Access group or endpoint after it has been created.

[Verified Access 그룹을 생성하거나 Verified Access 엔드포인트를 생성할 때](#) Verified Access 정책을 정의할 수 있는 옵션이 있습니다. Verified Access 정책을 정의하지 않고 그룹 또는 엔드포인트를 생성할 수 있지만 정책을 정의할 때까지 모든 액세스 요청이 차단됩니다. 또는 생성된 후 기존 Verified Access 그룹 또는 엔드포인트에 정책을 추가하거나 변경할 수 있습니다.

Troubleshooting

► GET https://

Status **403 Forbidden** (?)

Version HTTP/1.1

Transferred 312 B (0 B size)

Referrer Policy **strict-origin-when-cross-origin**Request Priority **Highest**

DNS Resolution System

▼ Response Headers (312 B)

② Connection: keep-alive

Content-Length: 0

Ⓢ Date: Mon, 23 Sep 2024 00:45:42 GMT

0:01 GMT; Path=/

② **strict-transport-security:** max-age=63072000

▼ Request Headers (2.511 kB)

⑦ **Accept:** text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/png,image/svg+xml,*/*;q=0.

② **Accept-Encoding:** gzip, deflate, br, zstd

② Accept-Language: en-US,en;q=0.5

② Connection: keep-alive

① Cookie: AWSALBAuthNonce=gAjSRtS3k4RFaFbO; AWSVASessionCookie-0=oq+84fVbCHxmvxD78CPxE6iFaD063t+OGbtj/

[illegible]

Z

X

hxp0UKV8+dkcwTPSSN7+hivdx3WHQULNgg00LiB0CE7SNHMBI33WyW9mh/Z30W3XGLmaXV4utybHGBtba7FrcyrDwje7a
B...X5M1B1U3...A1...6...1

② DNT: 1

② Host: [REDACTED]

Priorité $\mu=0$:

② **Sec-Fetch-Dest:** document

② **Sec-Fetch-Mode:** navigate

Sec-Fetch-Site: none

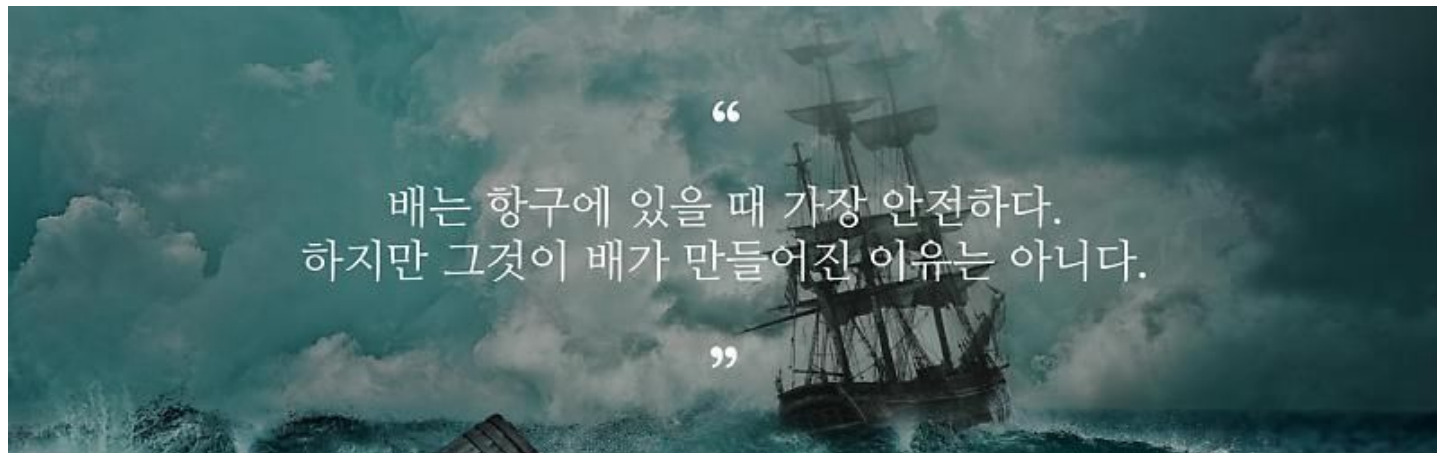
Sec-Fetch-User: ?1

Sec-GPC: 1

[illegible]

마치며.

보안은 서비스를 안전하게 하는 것이 목적이다.



Q&A

Appendix.

- AWS Verified Access Integration with 3rd party identity providers

- Integrating AWS Verified Access with device trust providers

- What is AWS Verified Access?

- CEDAR PLAYGROUND

- Exceed the 100 groups limitation on a group claim when using the Implicit Flow.