What is AWS PrivateLink?

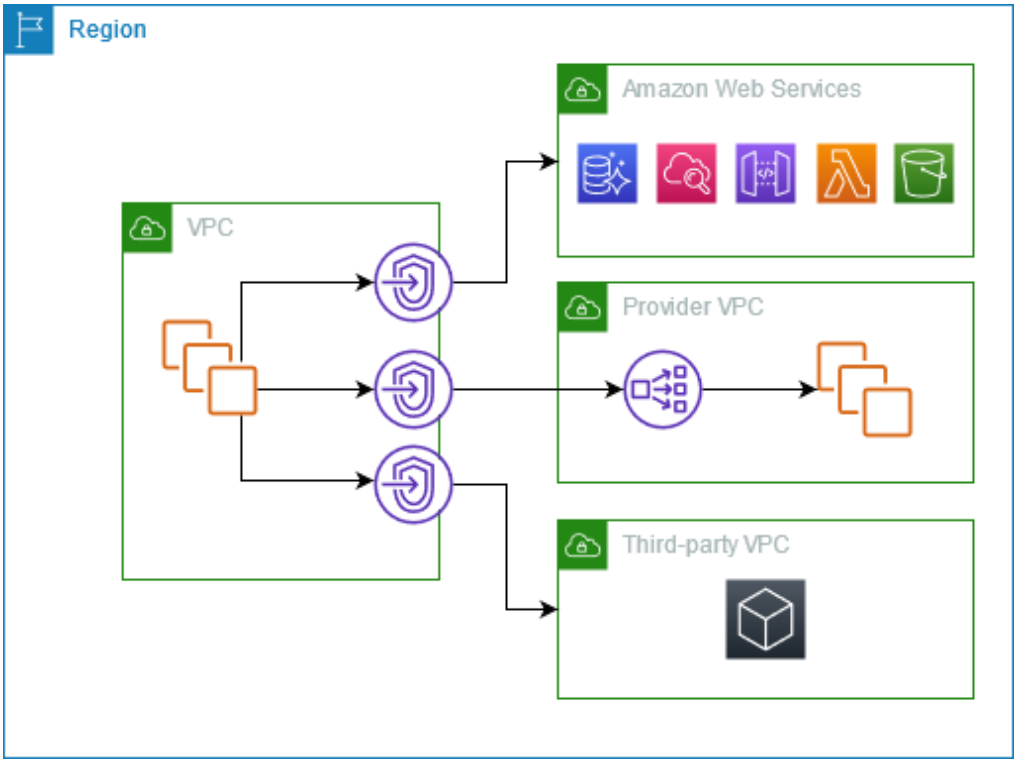
PDF (/pdfs/vpc/latest/privatelink/aws-privatelink.pdf#what-is-privatelink) | **RSS (privatelink-updates.rss)**

AWS PrivateLink is a highly available, scalable technology that you can use to privately connect your VPC to services as if they were in your VPC. You do not need to use an internet gateway, NAT device, public IP address, AWS Direct Connect connection, or AWS Site-to-Site VPN connection to allow communication with the service from your private subnets. Therefore, you control the specific API endpoints, sites, and services that are reachable from your VPC.

Use cases

You can create VPC endpoints to connect resources in your VPC to services that integrate with AWS PrivateLink. You can create your own VPC endpoint service and make it available to other AWS customers. For more information, see AWS PrivateLink concepts (./concepts.html) .

In the following diagram, the VPC on the left has several EC2 instances in a private subnet and three interface VPC endpoints. The top-most VPC endpoint connects to an AWS service. The middle VPC endpoint connects to a service hosted by another AWS account (a VPC endpoint service). The bottom VPC endpoint connects to an AWS Marketplace partner service.



Learn more

- AWS PrivateLink concepts (./concepts.html)
- Access AWS services (./privatelink-access-aws-services.html)
- Access SaaS products (./privatelink-access-saas.html)
- Access virtual appliances (./vpce-gateway-load-balancer.html)
- Share your services (./privatelink-share-your-services.html)

Work with VPC endpoints

You can create, access, and manage VPC endpoints using any of the following:

- **AWS Management Console** — Provides a web interface that you can use to access your AWS PrivateLink resources. Open the Amazon VPC console and choose **Endpoints** or **Endpoint services**.
- **AWS Command Line Interface (AWS CLI)** — Provides commands for a broad set of AWS services, including AWS PrivateLink. For more information about commands for AWS PrivateLink, see ec2 (https://docs.aws.amazon.com/cli/latest/reference/ec2/) in the *AWS CLI Command Reference*.
- **AWS CloudFormation** - Create templates that describe your AWS resources. You use the templates to provision and manage these

resources as a single unit. For more information, see the following AWS PrivateLink resources:

  - AWS::EC2::VPCEndpoint (https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-resource-ec2-vpcendpoint.html)
  - AWS::EC2::VPCEndpointConnectionNotification (https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-resource-ec2-vpcendpointconnectionnotification.html)
  - AWS::EC2::VPCEndpointService (https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-resource-ec2-vpcendpointservice.html)
  - AWS::EC2::VPCEndpointServicePermissions (https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-resource-ec2-vpcendpointservicepermissions.html)
  - AWS::ElasticLoadBalancingV2::LoadBalancer (https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-resource-elasticloadbalancingv2-loadbalancer.html)

- **AWS SDKs** — Provide language-specific APIs. The SDKs take care of many of the connection details, such as calculating signatures, handling request retries, and handling errors. For more information, see Tools to Build on AWS (https://aws.amazon.com/developer/tools/) .
- **Query API** — Provides low-level API actions that you call using HTTPS requests. Using the Query API is the most direct way to access Amazon VPC. However, it requires that your application handle low-level details such as generating the hash to sign the request and handling errors. For more information, see AWS PrivateLink actions (https://docs.aws.amazon.com/AWSEC2/latest/APIReference/operation-list-privatelink.html) in the *Amazon EC2 API Reference*.

Pricing

For information about the pricing for VPC endpoints, see AWS PrivateLink Pricing (https://aws.amazon.com/privatelink/pricing/) .

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Securityhub › userguide
AWS Security Hub and interface VPC endpoints (AWS PrivateLink) (https://docs.aws.amazon.com/securityhub/latest/userguide/security-vpc…

Establish private connection VPC Security Hub, create interface endpoint, review limitations, supports API actions, create endpoint, attach policy, control access services

Guardduty › ug

Amazon GuardDuty and interface VPC endpoints (AWS PrivateLink) (https://docs.aws.amazon.com/guardduty/latest/ug/security-vpc-…

Establish private connection between VPC and GuardDuty by creating interface VPC endpoint, enabling access to GuardDuty APIs without internet gateway.

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What is Amazon VPC? (https://docs.aws.amazon.com/vpc/latest/userguide/what-is-amazon-…

Amazon VPC enables launching AWS resources in isolated virtual networks with customizable IP addressing, routing, and connectivity.

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Vpc › userguide

NAT gateways (https://docs.aws.amazon.com/vpc/latest/userguide/vpc-nat-…

NAT gateway enables private subnet instances to access internet, other VPCs, on-premises networks; supports IPv4 traffic, MTU 8500; performs IP address translation.

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Vpc › peering

What is VPC peering?

(https://docs.aws.amazon.com/vpc/latest/peering/what-is-vpc-…

VPC peering enables routing traffic, communicating via private IPs, transferring data between accounts, accessing resources across VPCs, and sharing resources between Regions.

8 June 2024