

Snowflake Account Options & Assurances

Industry Compliance Awards

Even if you already have a Snowflake Account (or a User account on your employer's account), there are things we can learn about Snowflake by looking at the sign-up process.

First, notice the bottom of the screenshot.

Did you know that Snowflake is certified compliant with many critical data protection industry protocols?

The screenshot shows the Snowflake sign-up page. At the top left is the Snowflake logo. Below it, three bullet points highlight benefits: "Make better, quicker business decisions", "Instantly and cost-effectively scale your analytics", and "Create a data-driven customer journey". To the right, a white box contains the text "Start Your 30-Day Free Trial" and "Receive \$400 of credits to try all Snowflake features". It includes input fields for "Florence" and "Neige", and email fields for "florencedneige@gmail.com" and "Cafe De Mel". A blue "CREATE ACCOUNT" button is at the bottom. On the right side of the page, the text "TEST DRIVE THE DATA WAREHOUSE BUILT FOR THE CLOUD" is displayed with a left-pointing arrow. At the bottom, a pink arrow points from the "Did you know" text to the compliance section. The compliance section at the bottom right lists: "Snowflake is HIPAA, PCI DSS, SOC 1 and SOC 2 Type 2 compliant, and FedRAMP Ready". Logos for PCI DSS, HIPAA, AICPA SOC 2, and FedRAMP are shown.

Snowflake is HIPAA, PCI DSS, SOC 1 and SOC 2 Type 2 compliant, and FedRAMP Ready

PCI DSS HIPAA AICPA SOC 2 FedRAMP



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Snowflake is HIPAA, PCI DSS, SOC 1 and SOC 2 Type 2 compliant, and FedRAMP Ready



HIPAA - Health Insurance Portability and Accountability Act. Snowflake meets standards needed to protect patient medical data. Watch this video to learn more about Snowflake & HIPAA: <https://www.youtube.com/watch?v=nKMvFVlu6aE>

SOC1, SOC 2 Type 2, & PCI DSS - Snowflake offers audit reports proving compliance and recommends customers request these reports from any warehouse vendor. Watch this video to learn more: <https://www.youtube.com/watch?v=fUud0GZr7V4>

FEDRAMP - According to [FedRamp.gov](https://www.fedramp.gov), "FedRAMP simplifies security for the digital age by providing a standardized approach to security for the cloud." Federal agencies must have cloud solutions that have been certified by the FedRAMP process in advance of making use of those solutions. Watch this video to learn more: <https://govmatters.tv/tech-leadership-series-data-analytics/>



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Account Options

Understanding Snowflake's strict compliance processes and certifications, a potential customer should feel more confident about exploring Snowflake with a trial account.

After entering standard information on the first page of the form, options an enrollee can expect to encounter include:

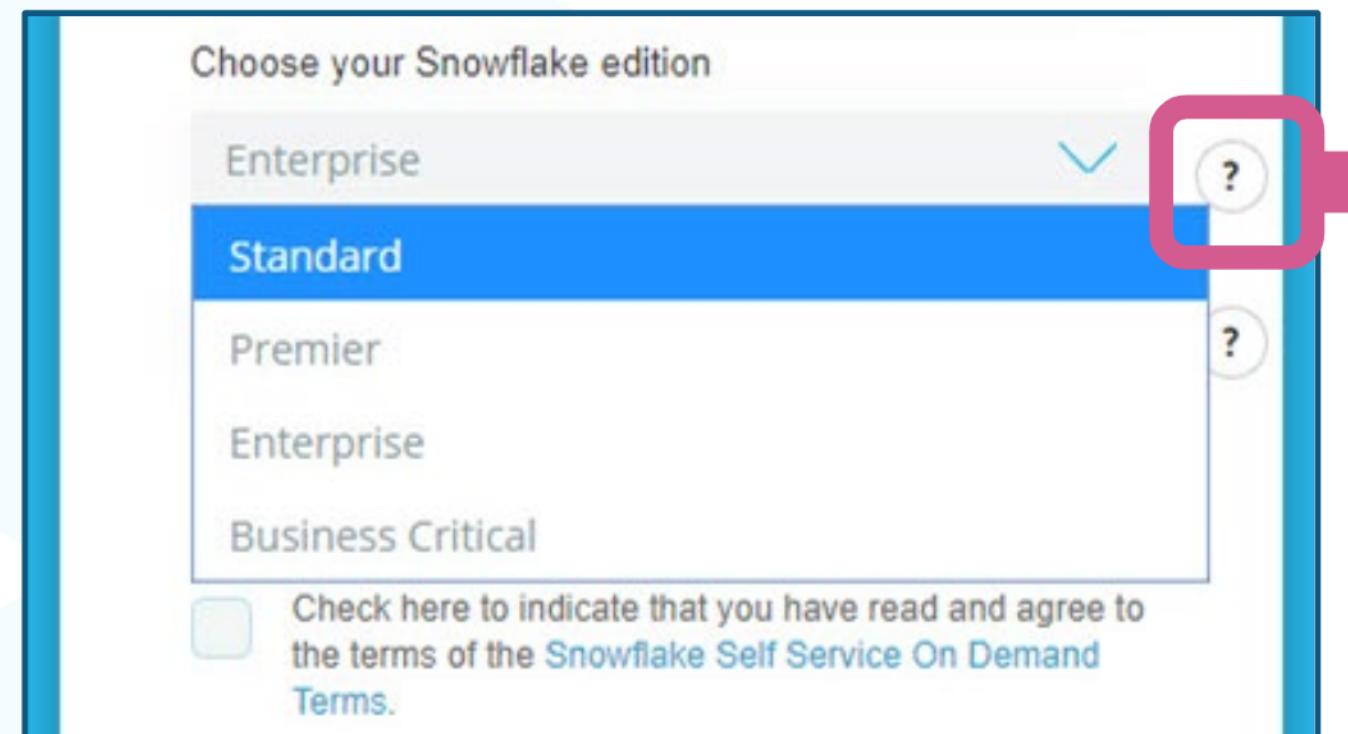
- Snowflake Edition
- Cloud Platform
- Geographic Deployment Region

The screenshot shows the Snowflake trial sign-up page. At the top left is the Snowflake logo. To its right, three bullet points describe benefits: "Make better, quicker business decisions", "Instantly and cost-effectively scale your analytics", and "Create a data-driven customer journey". Below these is a white rectangular box containing the text "Start Your 30-Day Free Trial" and "Receive \$400 of credits to try all Snowflake features". Inside this box are four input fields: "Florence" and "Neige" (both grayed out), "florencedneige@gmail.com" (filled with black text), and "Cafe De Mel" (grayed out). A large red arrow points from the bottom left towards the "CREATE ACCOUNT" button at the bottom right of the trial box. To the right of the trial box, the text "TEST DRIVE THE DATA WAREHOUSE BUILT FOR THE CLOUD" is displayed next to a left-pointing arrow. At the very bottom of the page, it says "Snowflake is HIPAA, PCI DSS, SOC 1 and SOC 2 Type 2 compliant, and FedRAMP Ready" followed by four compliance logos: PCI DSS, HIPAA Verified, AICPA SOC 2, and FedRAMP.



Snowflake Account Options & Assurances

Account Options - Snowflake Editions



The second part of the sign-up form asks users to **begin by choosing a Snowflake Edition.**

Clicking on the black question mark gives us more information on the editions offered.

What encryption is included in all editions? What encryption is added at the Business Critical level?

SNOWFLAKE EDITION

Snowflake Standard:
Robust SQL functionality. Data is always encrypted when it is sent over the public Internet or when it is stored on disk.

Snowflake Premier:
Standard plus support for SLAs, and 24 x 365 service/support.

Snowflake Enterprise:
Premier plus 90-day time travel, multi-cluster warehouse, and materialized views.

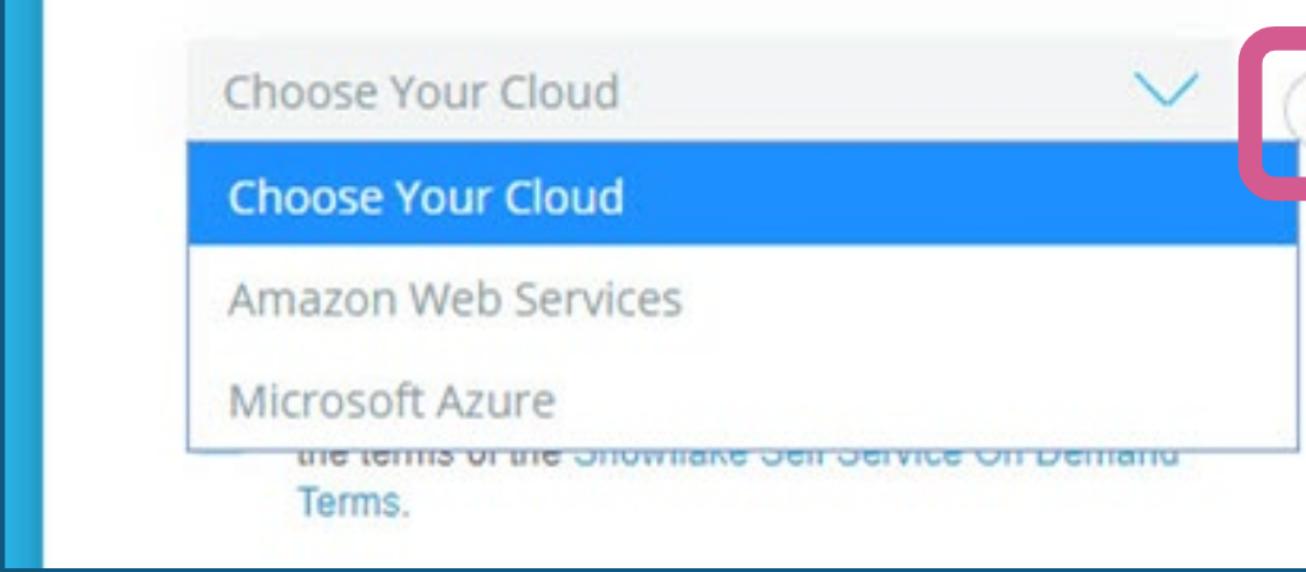
Snowflake Business Critical:
Data is encrypted when it is transmitted over the network within the Snowflake VPC. Additionally, the metadata for all customer queries including the SQL text is fully encrypted at the application level before it is persisted to the metadata store.

Business Critical is Snowflake's solution for customers with specific compliance requirements. It includes HIPAA support, is PCI compliant and features an enhanced security policy. Customers must enter into a Business Associate Agreement ("BAA") with Snowflake before uploading any HIPAA data to the service. To obtain a Business Associate Agreement ("BAA") please reach out to sales.



Snowflake Account Options & Assurances

Cloud Platform Provider



A screenshot of the Snowflake self-service interface. A dropdown menu titled "Choose Your Cloud" is open, showing three options: "Choose Your Cloud" (selected), "Amazon Web Services", and "Microsoft Azure". Below the dropdown is a small note: "the terms of the Snowflake Self-Service On-Demand Terms." A pink arrow points from a black question mark icon inside a blue rounded rectangle on the right side of the dropdown to a callout box.

CLOUD PROVIDER

You can choose to deploy Snowflake on Amazon Web Services or Microsoft Azure. Consider where your applications or data reside and which option is most strategic for your organization.

Next users **Choose a Cloud**.

Clicking on the black question mark gives us more information on the cloud options offered.



NOTE: Google Cloud Platform is currently under development and is expected to be available in early 2020.

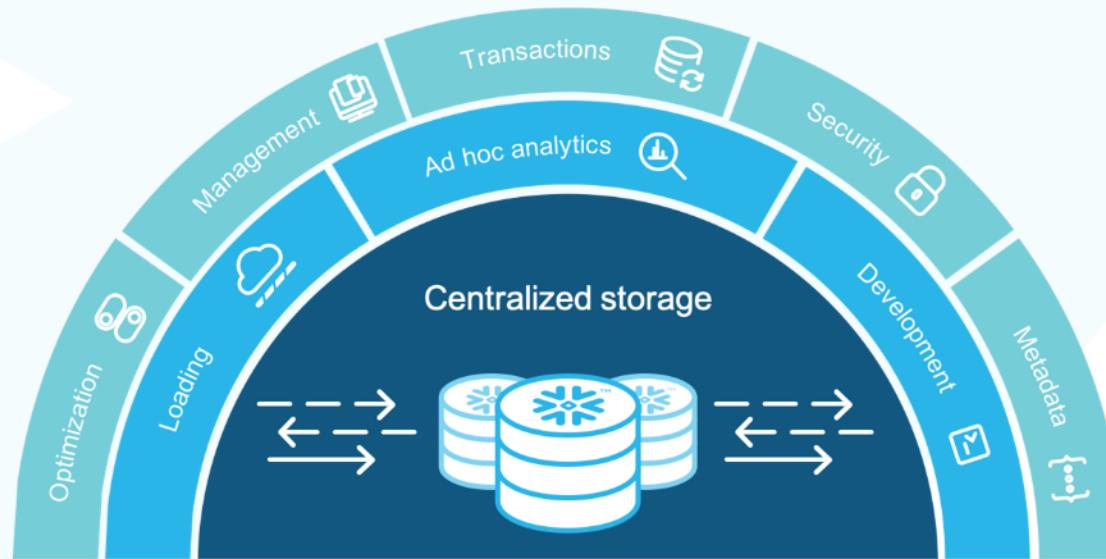
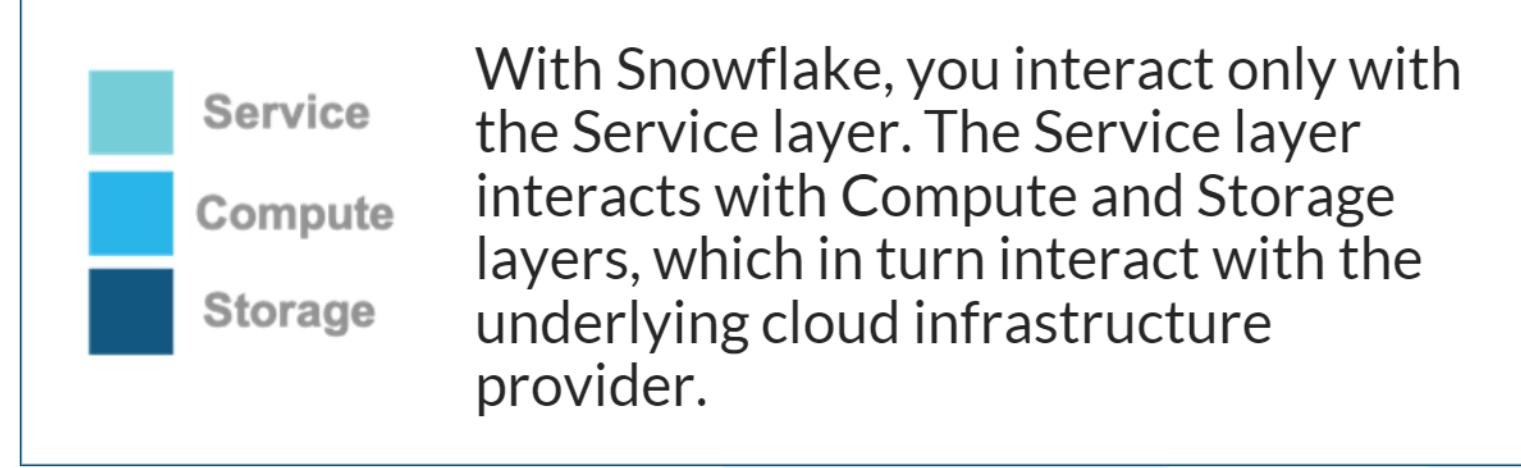
Read up-to-date GCP/Snowflake status info here:
<https://www.snowflake.com/technology-partners/google-cloud-platform/>



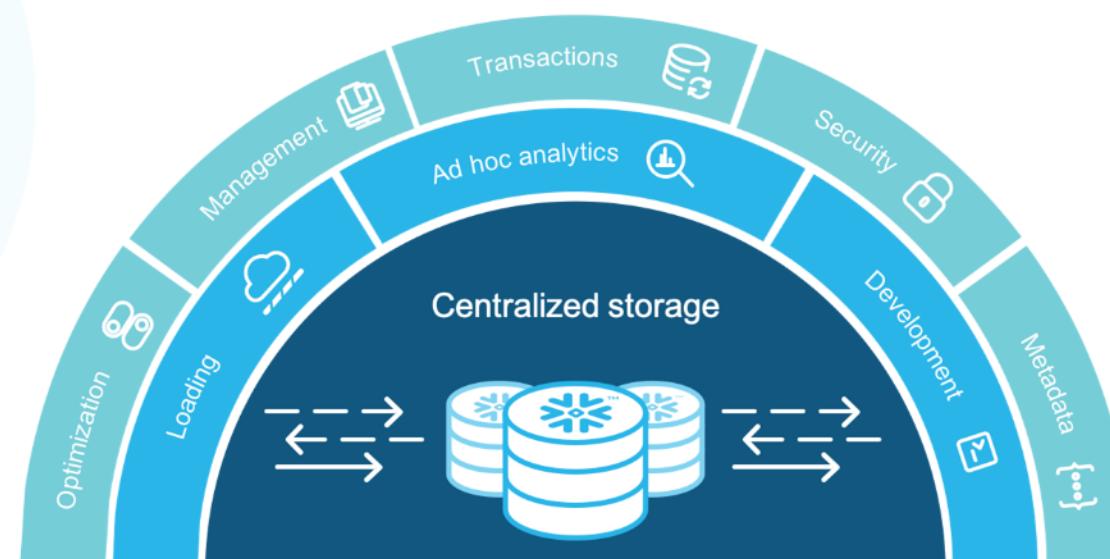
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Cloud Platform Provider

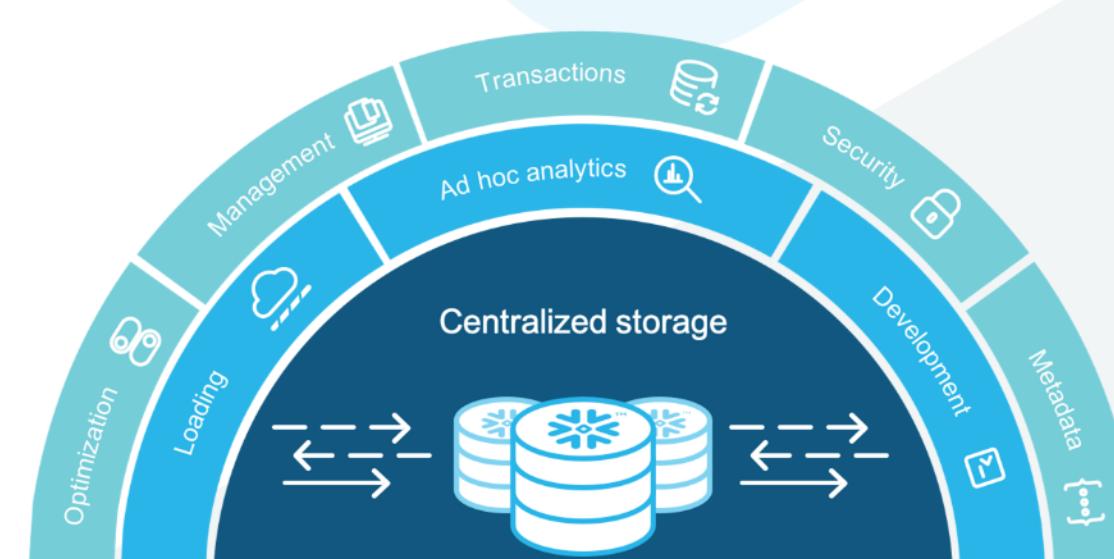
Snowflake could not operate without an underlying cloud provider infrastructure. When you choose a cloud, you choose which provider your Snowflake account sits on top of. However, after choosing your infrastructure provider, you do not interact with the cloud provider and you are not charged by them in the management of your Snowflake account.



Uses Azure storage and compute resources behind the scenes.



Uses AWS storage and compute resources behind the scenes.



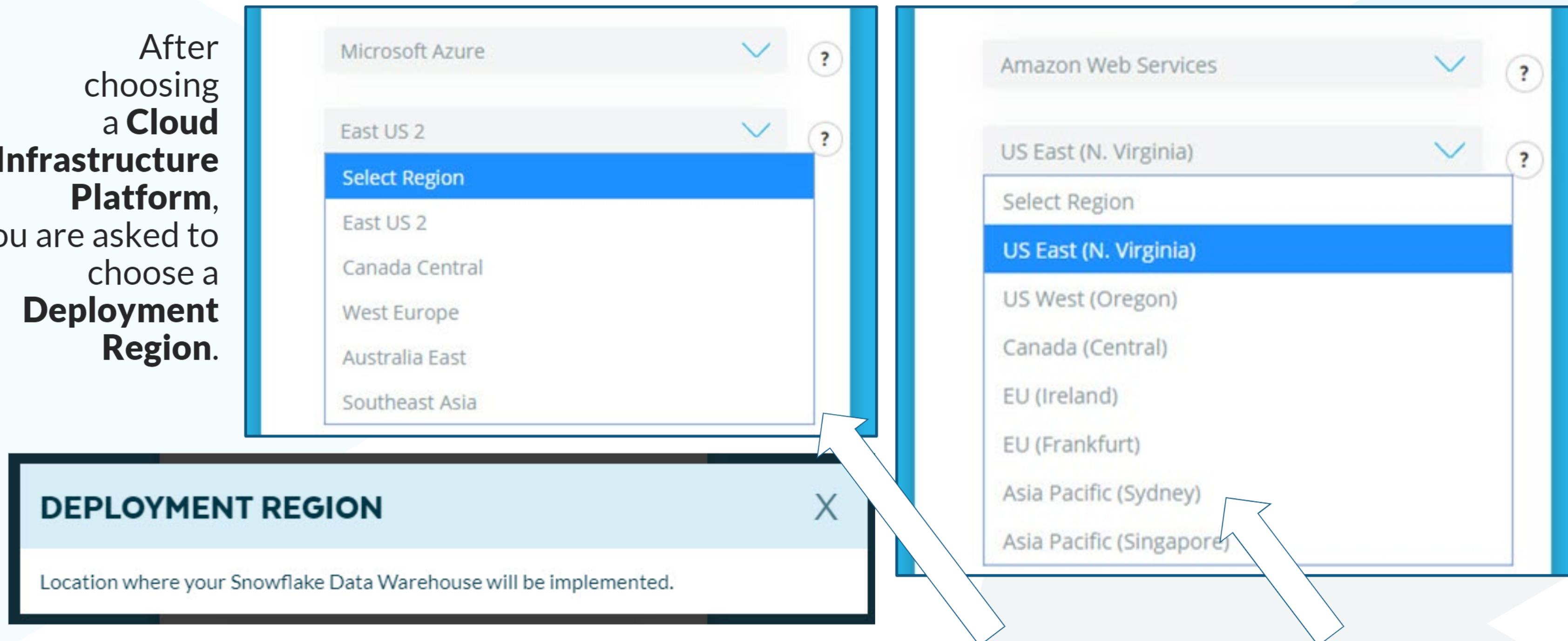
Uses GCP storage and compute resources behind the scenes.



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Cloud Platform Provider - Deployment Region

After choosing a **Cloud Infrastructure Platform**, you are asked to choose a **Deployment Region**.



What is a deployment region? And why are the regions different for different cloud infrastructure providers?



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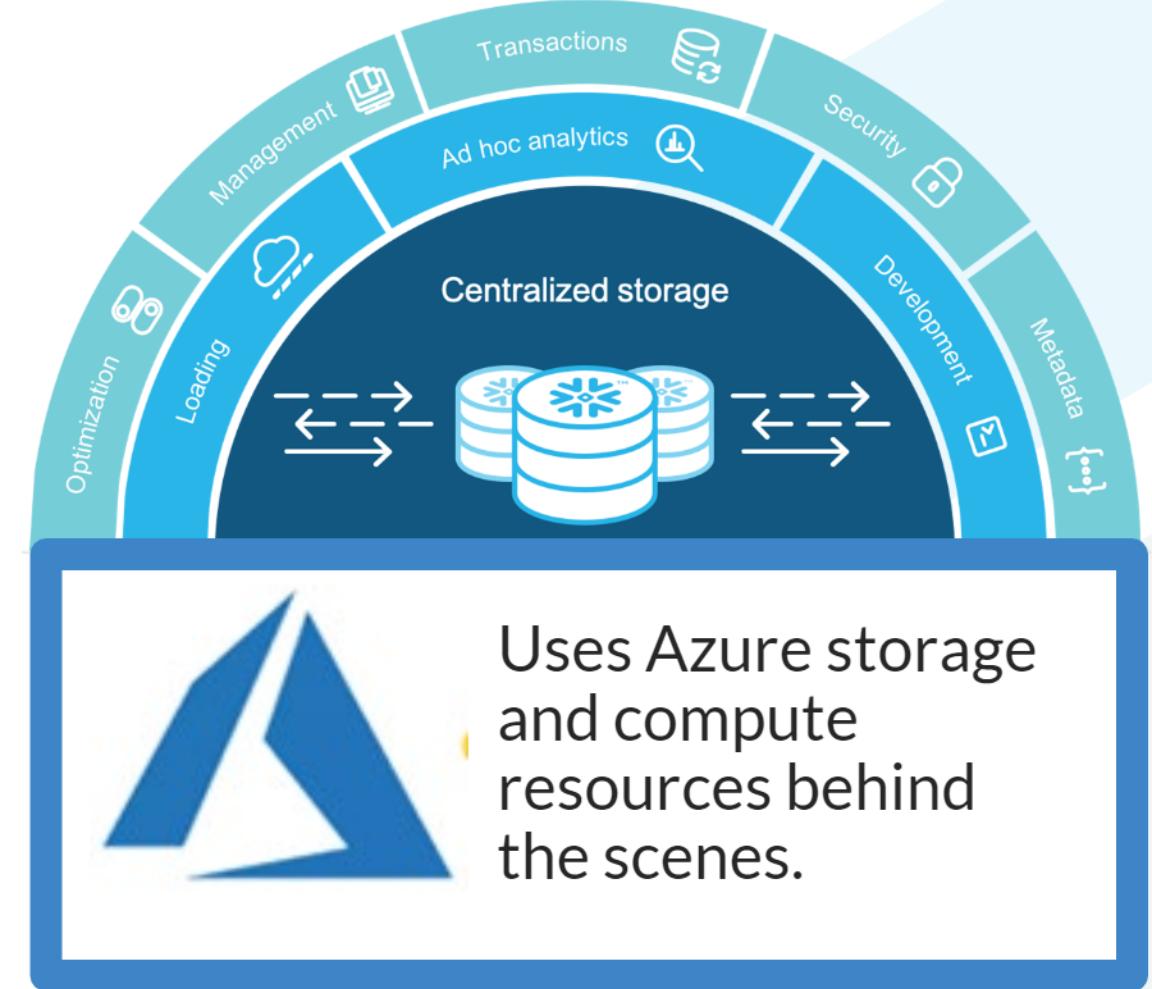
Cloud Platform Provider - Deployment Region

Cloud Providers have Deployment Regions, so Snowflake has Deployment Regions.

As new Snowflake accounts are built for customers, cloud providers require a region to be configured, therefore, Snowflake asks customers to specify their preferred region from the list of options.

Generally speaking, customers will want to choose a region close to their point of service. This reduces latency.

You can read more about Azure's Infrastructure Regions here:
<https://azure.microsoft.com/en-us/global-infrastructure/regions/>



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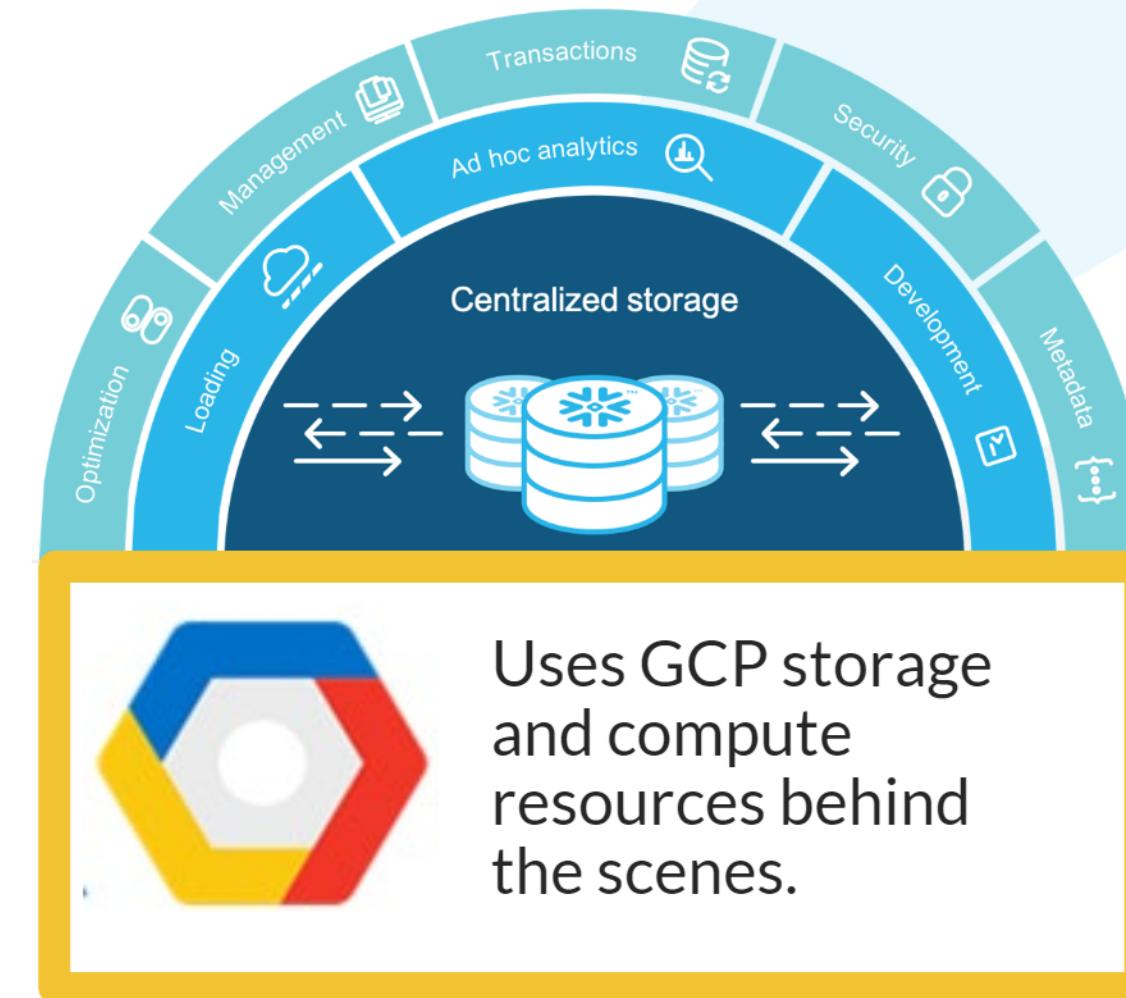
Cloud Platform Provider - Deployment Regions & Availability Zones

Google Cloud Platform also uses regions.

You can read about their regions and zones here:

<https://cloud.google.com/compute/docs/regions-zones/>

You might notice that the GCP document refers to both regions and zones. Zones are subsets of geographic regions.



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Cloud Platform Provider - Deployment Regions & Availability Zones

AWS maintains an interactive map of its regional deployments. Visit their map using the link at the bottom of the page.



<https://aws.amazon.com/about-aws/global-infrastructure/>



You can roll your mouse over the regions on Amazon's map and see when the region was launched as well as the number of Availability Zones at each location.



Snowflake Account Options & Assurances

Availability Zones for High Availability

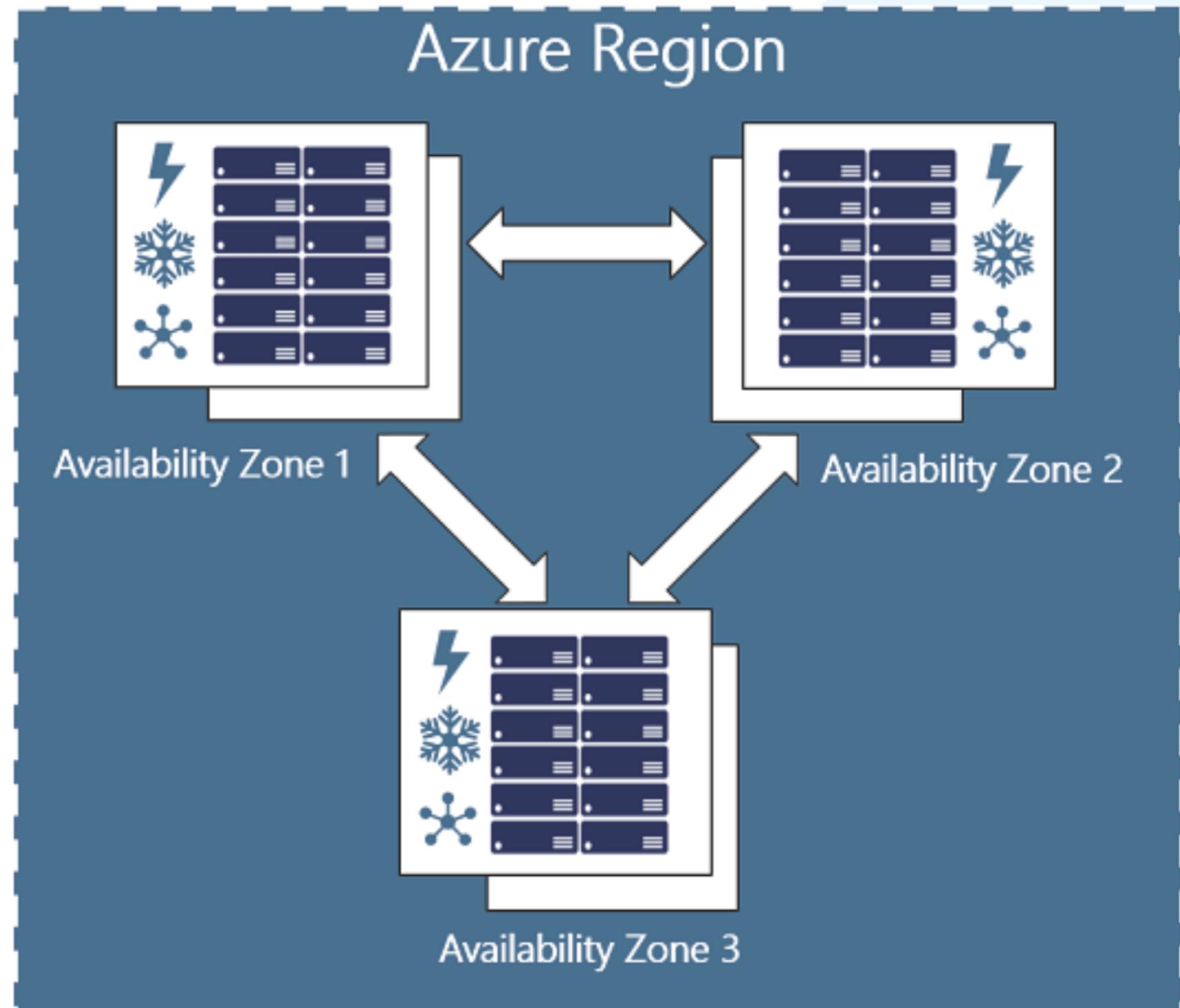
What are Availability Zones?

Availability Zones are replications of data within a region that are used to ensure that data is always available to end users, even if one copy of the data becomes unavailable.

When one zone within a region fails, another one should remain active and the switch between the two zones is invisible to cloud customers.

All three cloud infrastructure providers provide zones within each region.

Snowflake maintains data recovery and failsafe in addition to the assurances provided by the cloud provider's availability zone designs.



Snowflake Account Options & Assurances

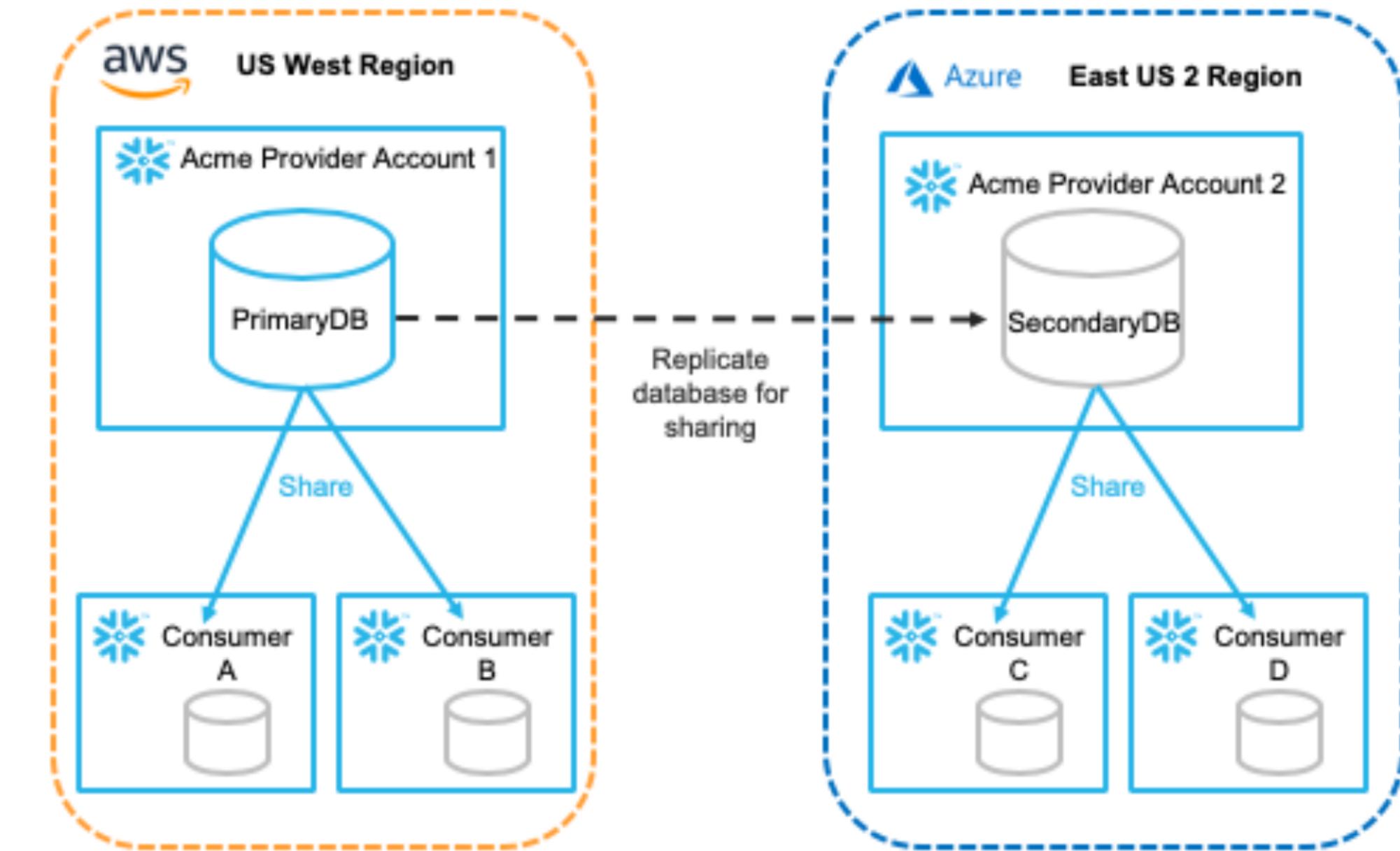
Multi-Region and Multi-Cloud for High Availability

What if a Geographic Region goes down?

Snowflake makes it easy to replicate your data across multiple regions and clouds.

For companies that need to have their data available in more than one region or on more than one cloud platform, Snowflake provides sharing and replication options that make this easy to achieve.

<https://docs.snowflake.net/manuals/user-guide/secure-data-sharing-across-regions-platforms.html>



Snowflake Account Options & Assurances

Review

Snowflake processes and architecture are certified secure and compliant

- Snowflake is HIPAA Compliant
- Snowflake is SOC 1 and SOC Type 2 Compliant
- Snowflake is PCI DSS Compliant and FedRAMP Certified

Snowflake offers continuous data protection

- All editions encrypt data stored on disk and as it is sent over the public internet
- The Business Critical Edition adds encryption for all network movements and metadata

Snowflake is true multi-cloud deployable

- Snowflake is available on AWS Cloud Infrastructure
- Snowflake is available on Azure Cloud Infrastructure
- Snowflake will be available on GCP Cloud Infrastructure in early 2020

Snowflake provides multi-layer high-availability

- Snowflake accounts use cloud availability zones for failover.
- Snowflake accounts are easily replicated for regional failover
- Snowflake accounts are easily replicated for cloud-provider failover.





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