Taking the mystery out of cloud-based GIS

or

Is your head in the cloud?

Steve Cox - Cadcorp

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Is your head in the cloud?

New 2017 Cloud Trends and Stats: RightScale State of the Cloud Report

Webinar Information:
Date: Wednesday, February 22, 2017
Time: 11 AM PT • 2 PM ET • 7 PM GMT

The ***RightScale 2017 State of the Cloud Report*** is now hot off the press. It includes insights based on the responses of more than 1,000 IT professionals to give you a comprehensive picture of cloud adoption trends. The survey results provide the hard data you need to benchmark your organization against others of similar size, develop your 2017 cloud strategy and goals, and mobilize your internal stakeholders for cloud initiatives.

Join our ***2017 Cloud Trends and Stats: RightScale State of the Cloud Report*** webinar for a review of the key findings, including:

FEATURING:

Michael Crandell
CEO

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When you attend **Cloud Expo Europe** you leave the impossible at th
Cloud Expo Europe you enter a world of the infinity possible, where
products and solutions from **500 of the world's leading suppliers,** plus
and knowledge from over **600 industry leading experts** including **Aviva, Gamingworks, LEGO Education, Lloyds Banking Group, LV=, PayPal, Philips IT, Skyscanner, UBS and many more,** presenting in tailored sessions in **27 dedicated theatres.**

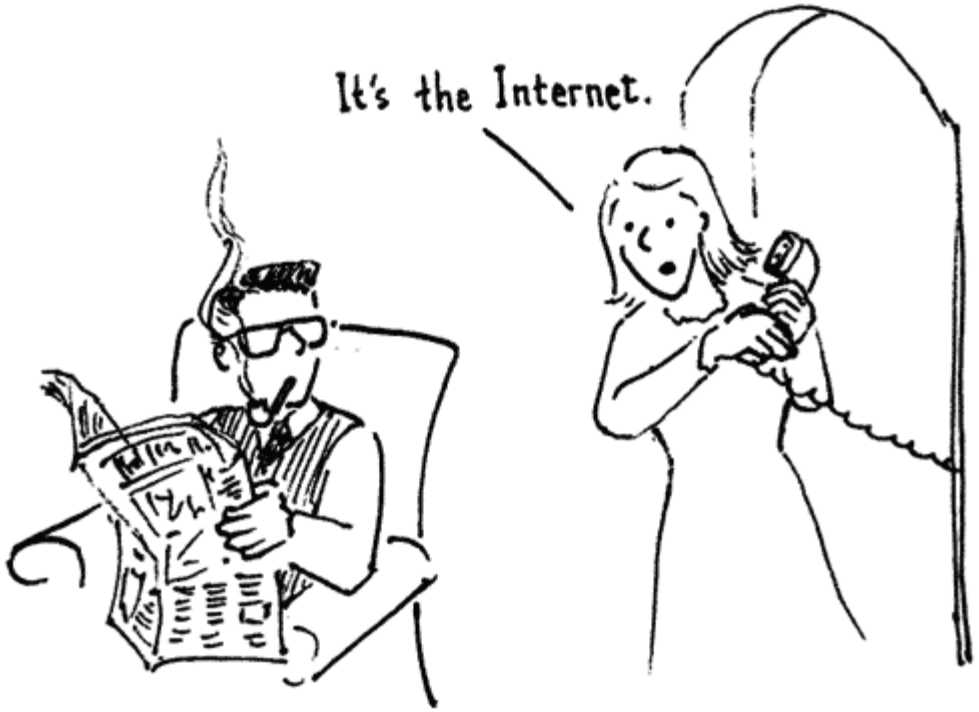
What's the ideal cloud solution for your business?

What does it mean?

- The definition that received industry-wide acceptance was composed by the National Institute of Standards and Technology (NIST).

"Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.

What does it mean?



Aren’t we all using the internet?

The office of the 1970s was built on paper files, the office of the 1980s was built on word processing, spreadsheets, and other PC software, and the office of the 1990s and into the 21st century was built on websites. These days, the office is built on cloud-based apps.

Joe McKendrick, forbes.com

Top 20 Most Popular Consumer Apps in the Enterprise

Top 20 Consumer Cloud Services

GLOBAL

1	Facebook	6	Gmail	11	Google Plus	16	VK
2	Twitter	7	StumbleUpon	12	Instagram	17	Photobucket
3	YouTube	8	Flickr	13	Tumblr	18	Spotify
4	LinkedIn	9	Vimeo	14	Yahoo! Mail	19	Evernote
5	Pinterest	10	Google Drive	15	Dropbox	20	SlideShare

https://www.skyhighnetworks.com/cloud-security-blog/the-20-totally-most-popular-cloud-services-in-todays-enterprise/

Top 20 Most Popular Enterprise Cloud Services

Top 20 Enterprise Cloud Services

GLOBAL

1	Microsoft Office 365	6	Zendesk	11	GoToMeeting	16	SAP Human Capital Management
2	Salesforce	7	ServiceNow	12	ADP	17	SilkRoad
3	Cisco Webex	8	Oracle Taleo	13	Success Factors	18	SAS OnDemand
4	Concur	9	Workday	14	SharePoint Online	19	NetSuite
5	Yammer	10	Box	15	Hightail	20	BlueJeans

https://www.skyhighnetworks.com/cloud-security-blog/the-20-totally-most-popular-cloud-services-in-todays-enterprise/

Why do these work in the cloud?

- Manage and hold all their data
- Serve a specific purpose with defined points of entry
- Sometimes they use a desktop based client

Microsoft Office 365

Office 2016 desktop & mobile apps

Office 365 service

- (Business-class email hosting not included)
- Desktop version of Office 2016: Outlook, Word, Excel, PowerPoint, and Access
- Web version of Word, Excel, and PowerPoint
- One license covers 5 phones, 5 tablets, & 5 PCs or Macs per user
- 1 TB file storage & sharing
- User maximum 300
- 24/7 phone & web support

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What Cloud Computing Customers Want: Clarity, Simplicity, Support

Joe McKendrick, CONTRIBUTOR

I track how technology innovations move markets and careers **FULL BIO**

Opinions expressed by Forbes Contributors are their own.

Forbes

https://www.forbes.com/sites/joemckendrick/2014/07/19/what-cloud-computing-customers-want-clarity-simplicity-support/#2f1328287368

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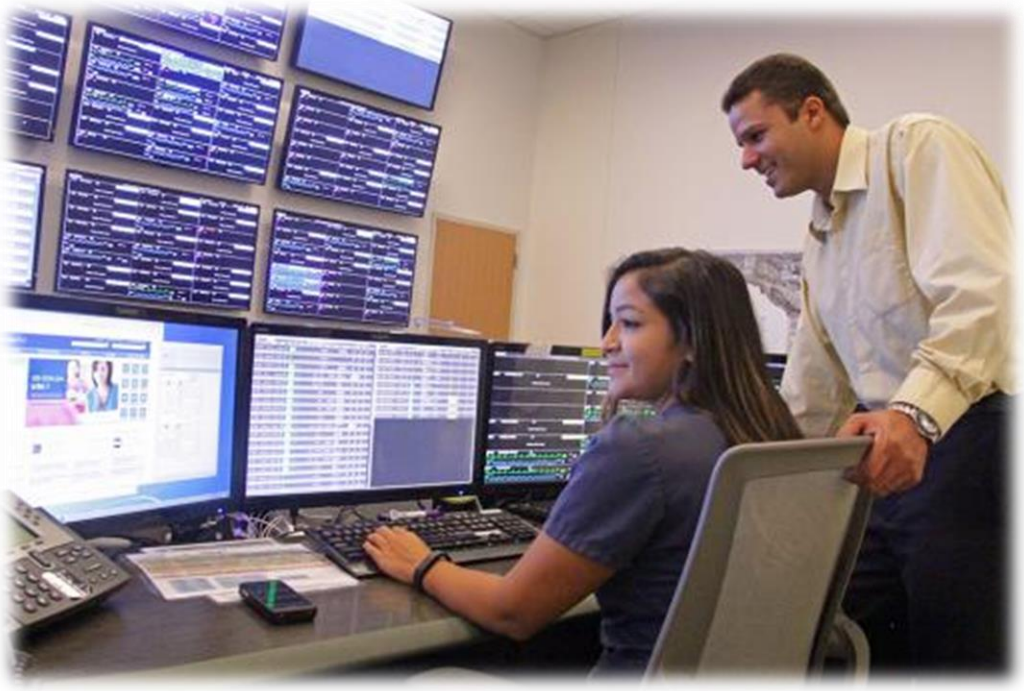

IT Department

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GIS Administrator

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End Users

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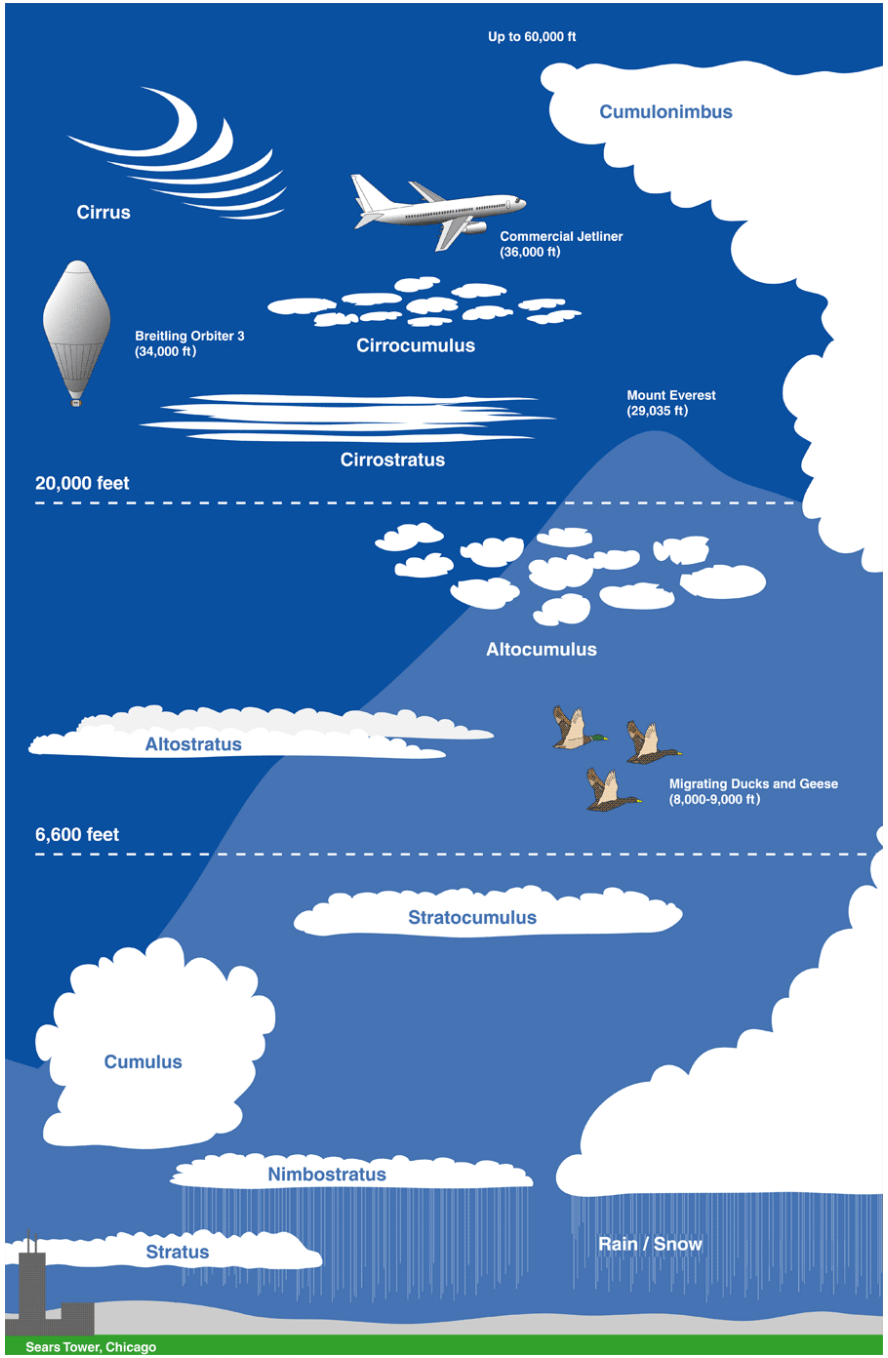

High clouds

Middle clouds

Low clouds

Low cloud

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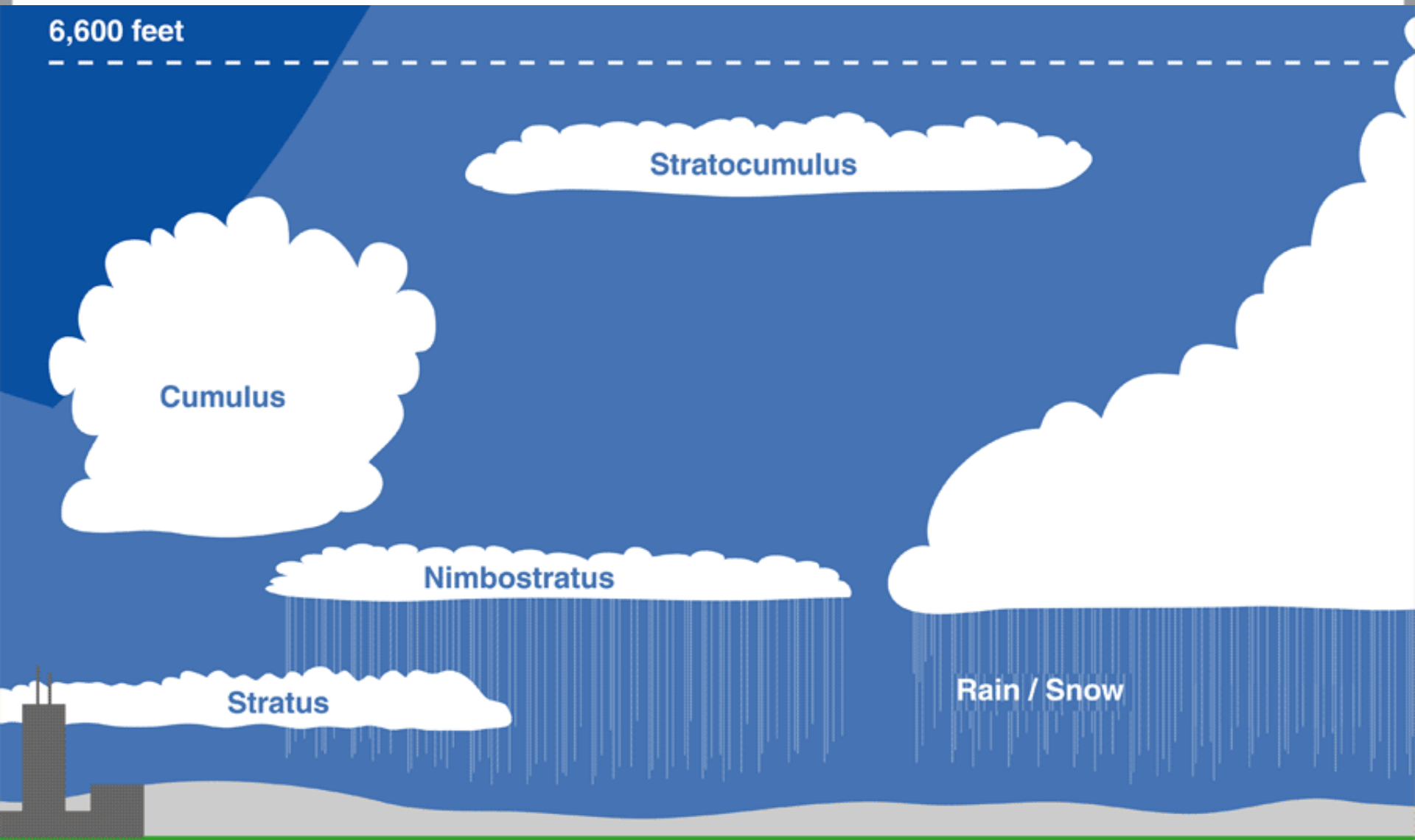

Low cloud

- Minimal disruption
- Should make a difference in management or costs
- Take one component and host it in the cloud

Low cloud - DaaS

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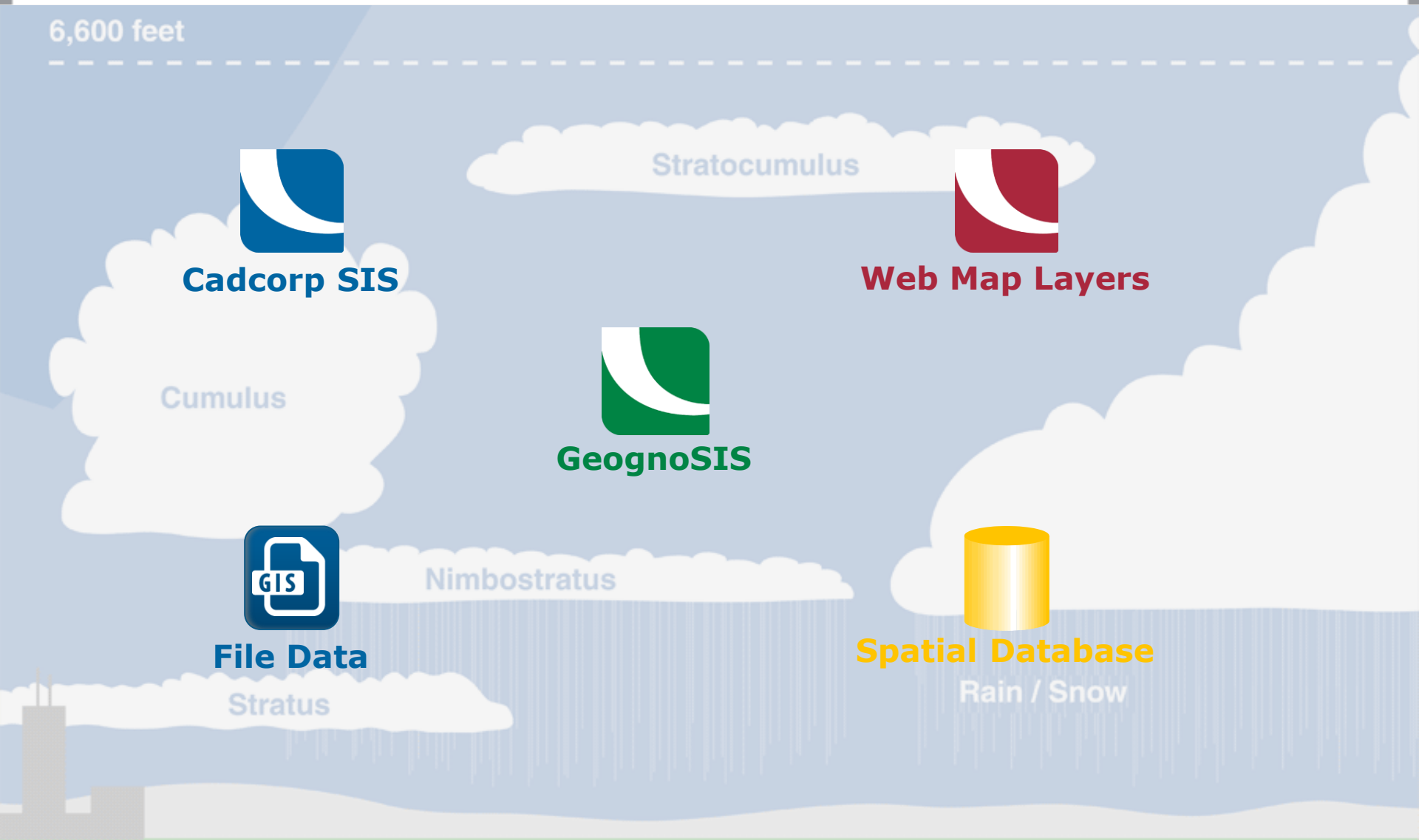
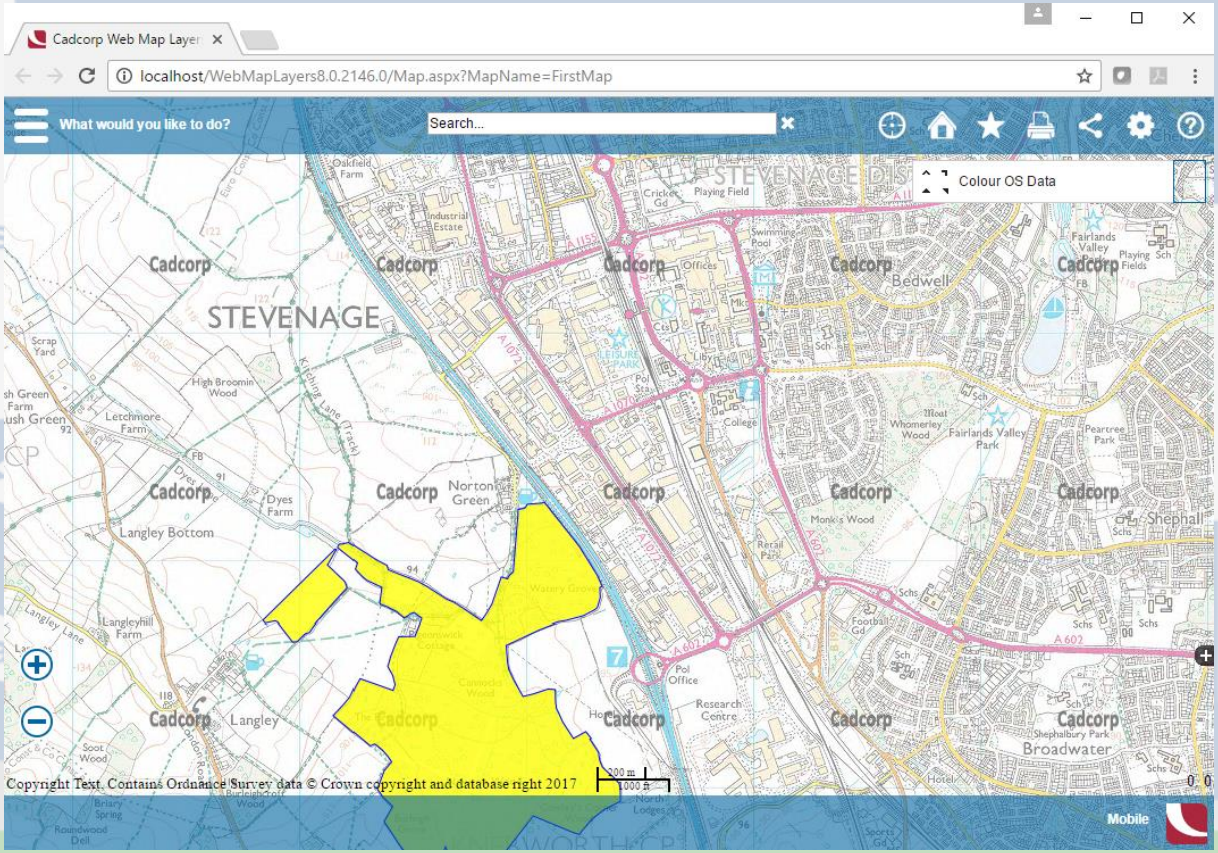


Low cloud - DaaS

- Data as a Service (DaaS)
- WMTS or WMS
- OS Mapping – raster and vector



Low cloud - DaaS

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6,600 feet

Benefits

- Eliminates data management
- Reliable, secure service
- Simple change that can affect both desktop and web clients
- Available through G-Cloud

Stratocumulus

Nimbostratus

Stratus

Rain / Snow

Sears Tower, Chicago

Low cloud - SaaS

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6,600 feet

Stratocumulus

Cadcorp SIS

Web Map Layers

Cumulus

GeognoSIS

Nimbostratus

File Data

Spatial Database

Rain / Snow

Stratus

Sears Tower, Chicago

Low cloud - SaaS

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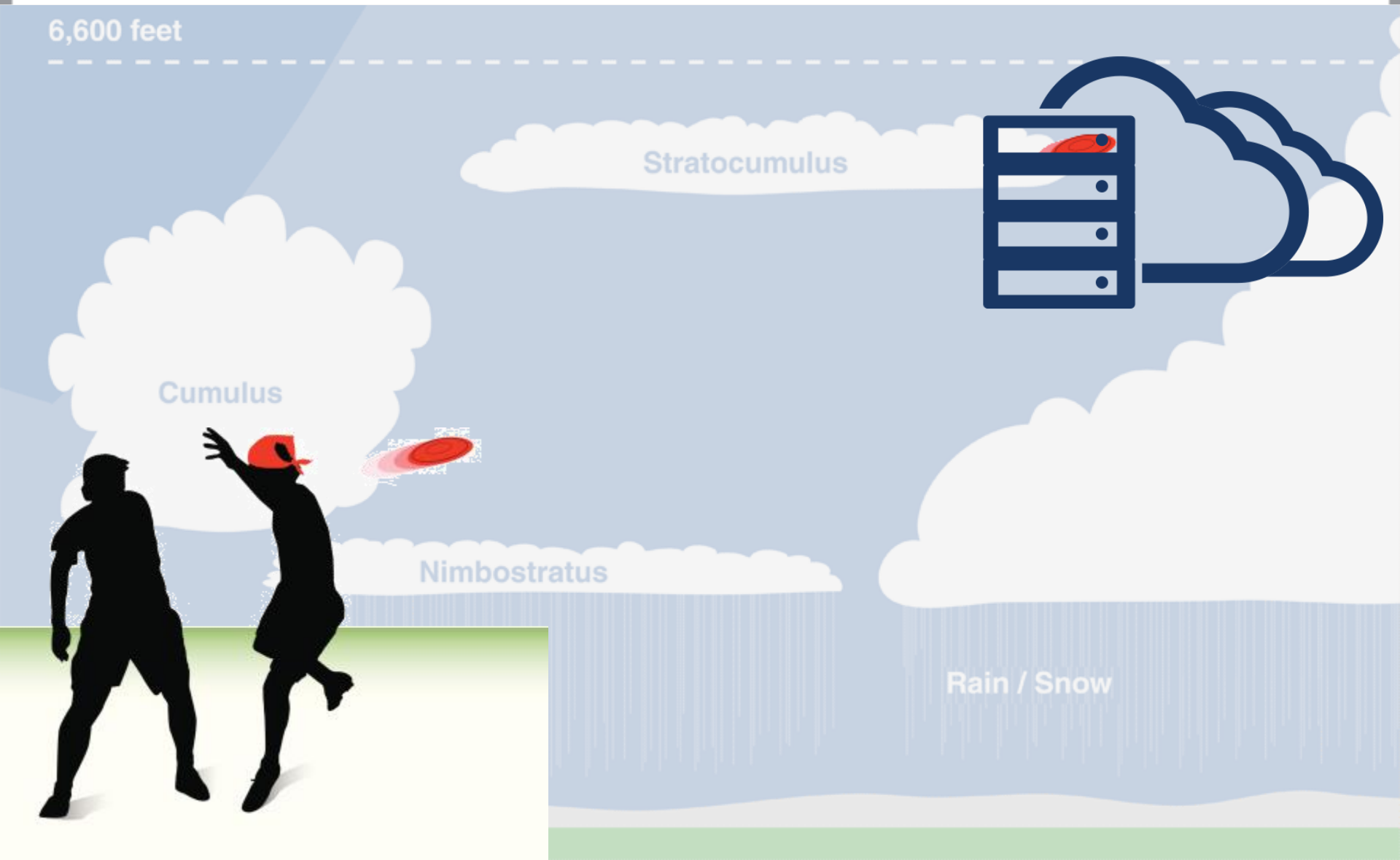

Low cloud - SaaS

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6,600 feet

Stratocumulus

Cumulus

Nimbostratus

Rain / Snow

On premise GIS and data

Hosted Web Map Layers

Web Map Layers

Spatial Database

GeognoSIS

File Data

Low cloud - SaaS

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6,600 feet

Benefits

- Provides web mapping regardless of the incumbent GIS
- A bolt-on service which can be used third party integrations such as Arcus Global
- Ideal for joint partnership mapping
- Available through G-Cloud

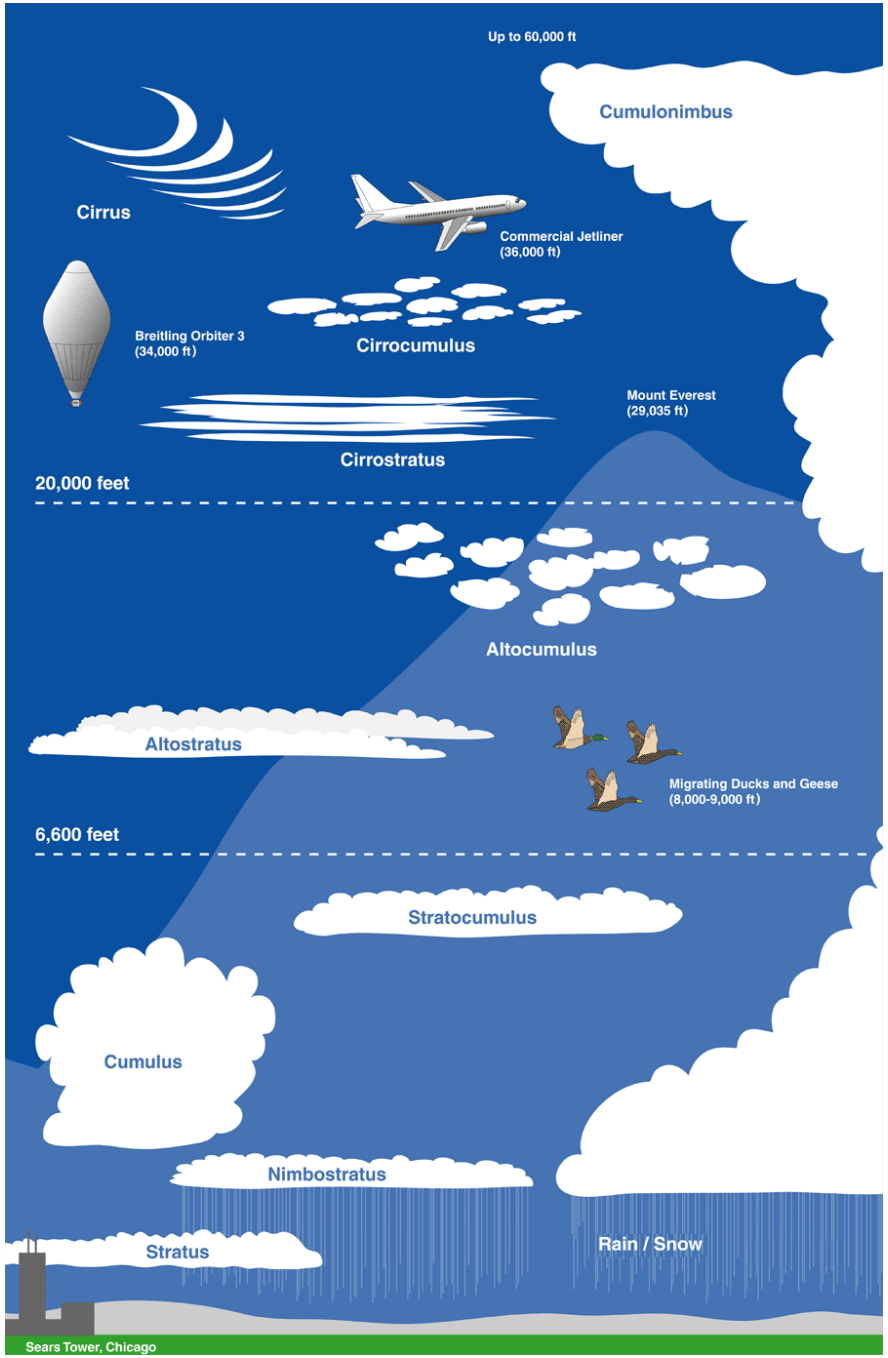
Stratocumulus

Nimbostratus

Stratus

Rain / Snow

Sears Tower, Chicago



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Middle clouds

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Middle cloud

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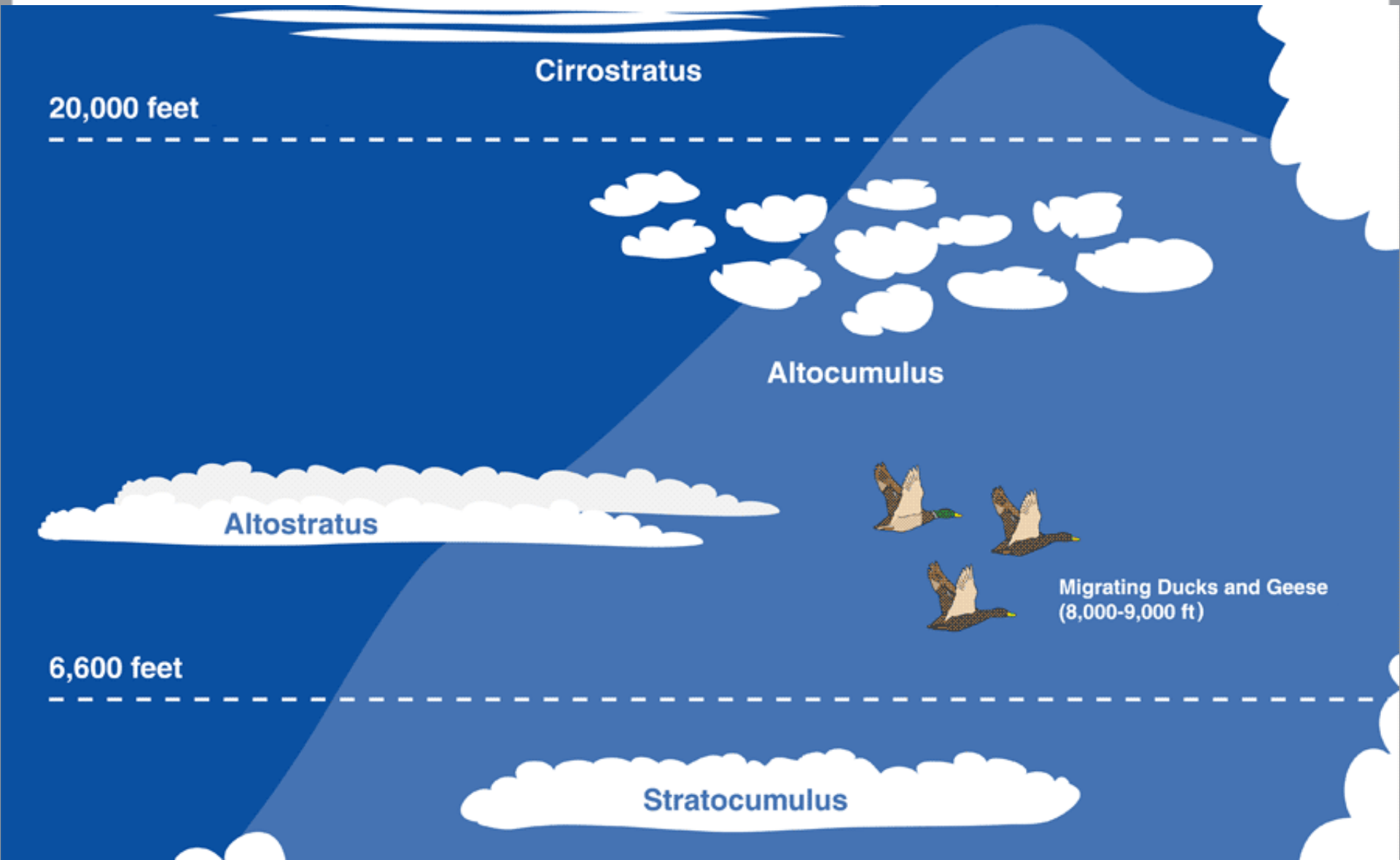

Middle cloud

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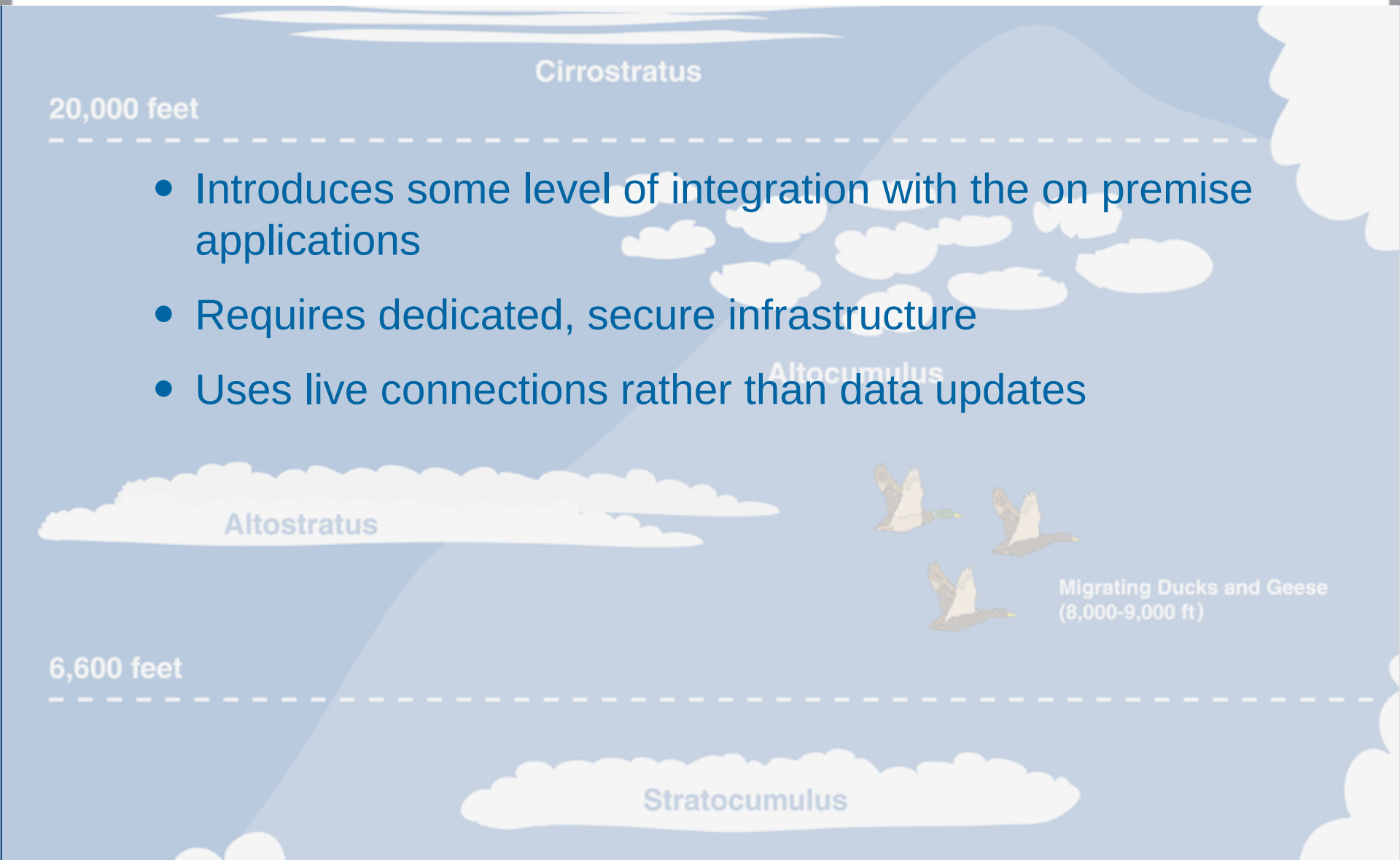
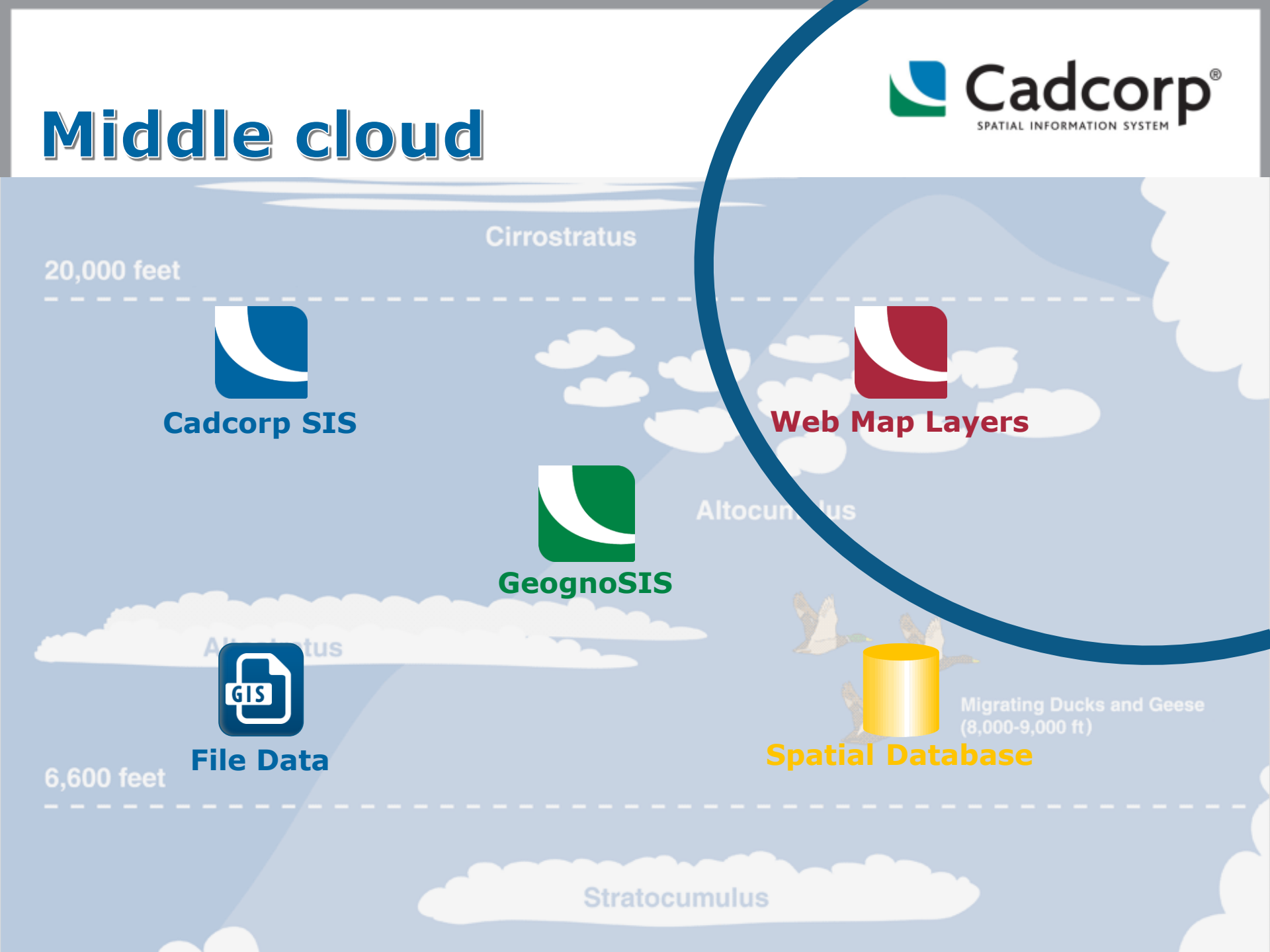


- Introduces some level of integration with the on premise applications
- Requires dedicated, secure infrastructure
- Uses live connections rather than data updates

Middle cloud



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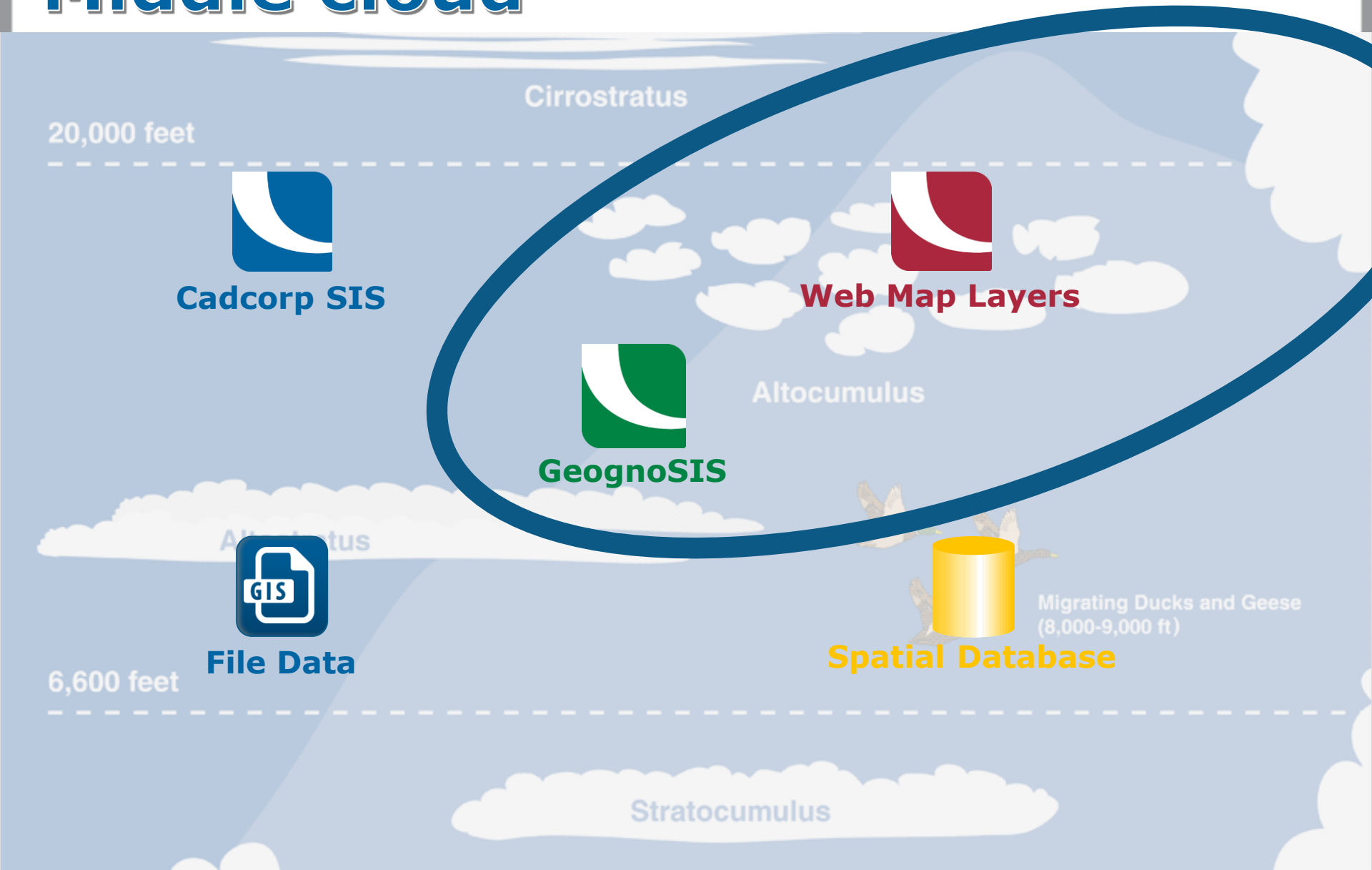

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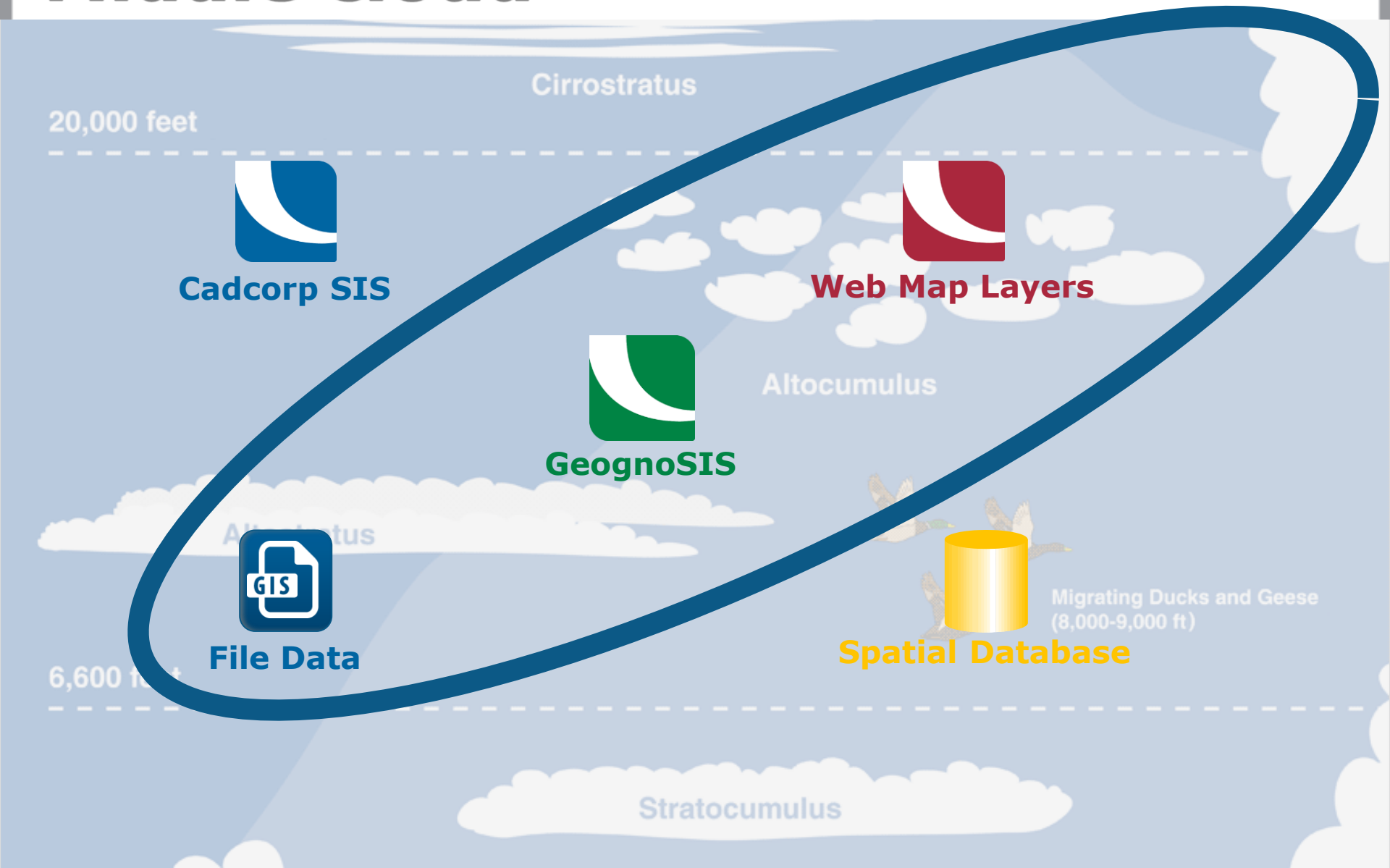

Middle cloud - Network

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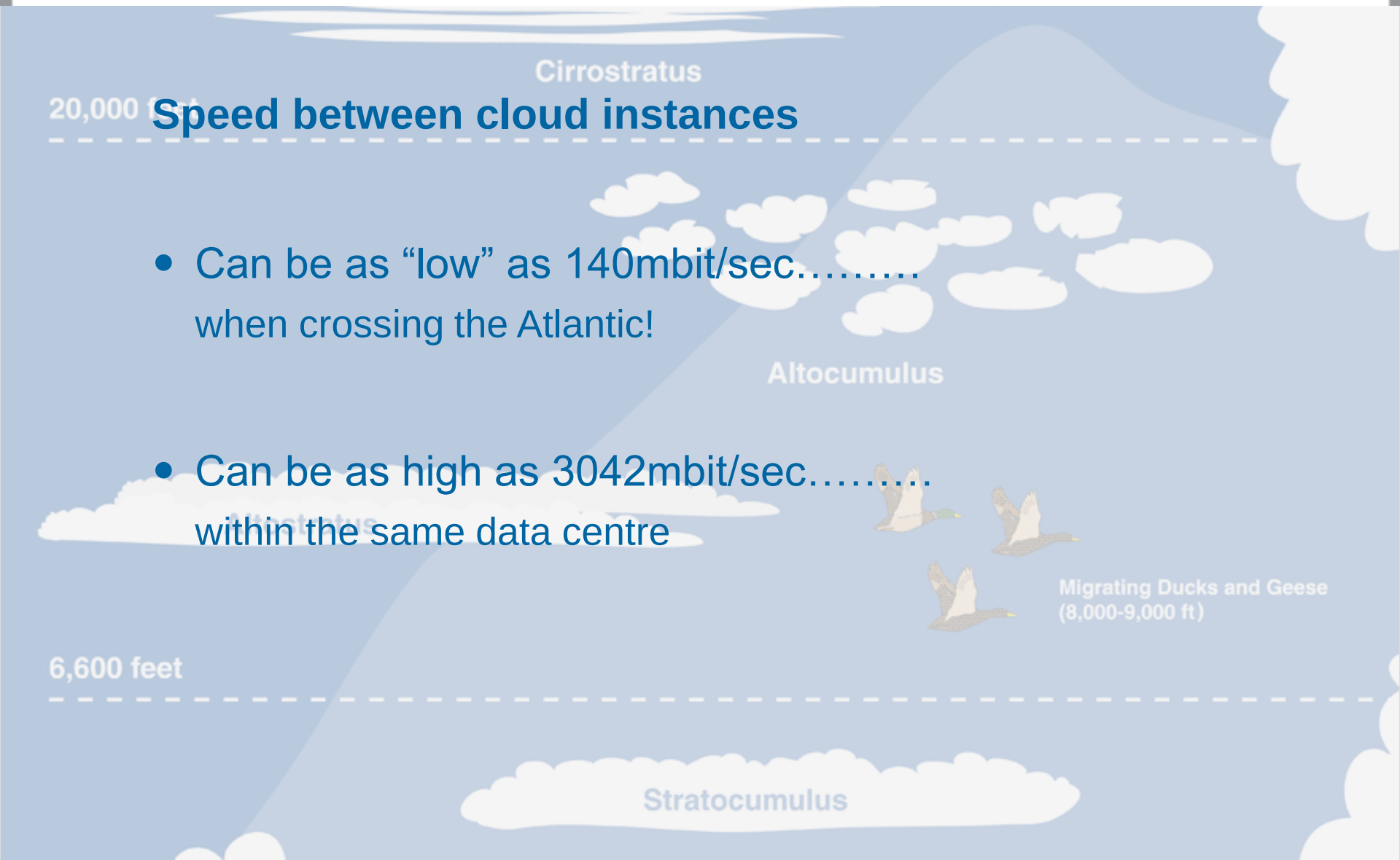
Speed between cloud instances

- Can be as “low” as 140mbit/sec……
  when crossing the Atlantic!
- Can be as high as 3042mbit/sec……
  within the same data centre



Network Chasms

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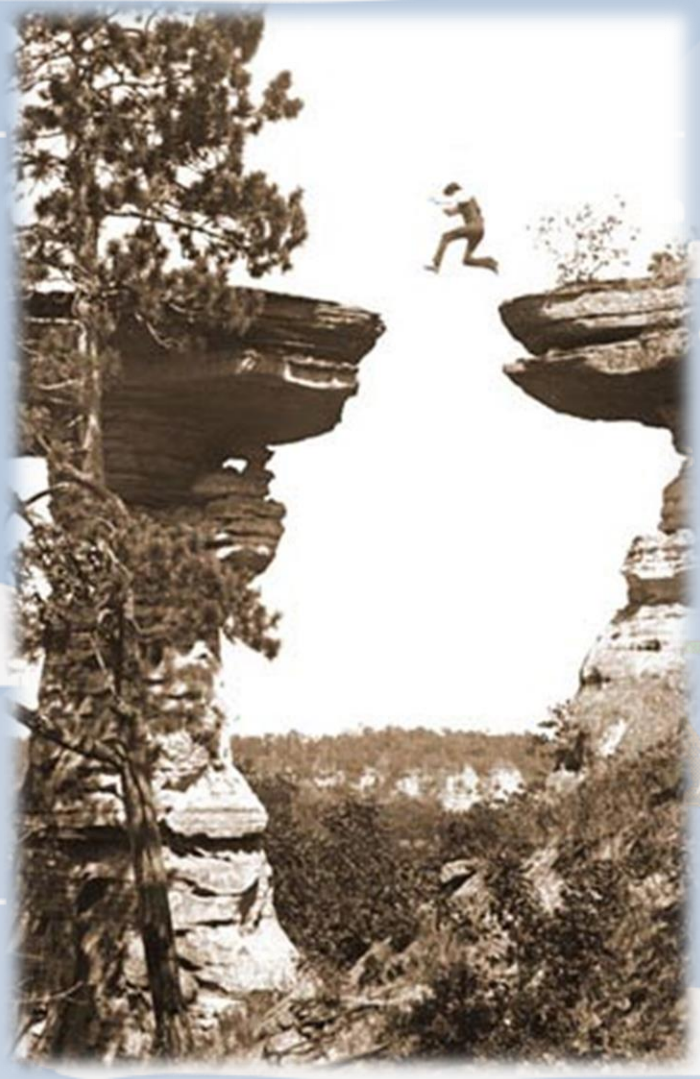
20,000 feet



Altostratus

Migrating Ducks and Geese
(8,000-9,000 ft)

6,600 feet

Middle cloud - Network

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Cirrostratus

20,000 feet

Benefits

- Starts to integrate real time data and cloud based architecture into your solutions
- Takes server control out of the hands of IT
- Ideal for joint partnership mapping
- Starts to provide independent components

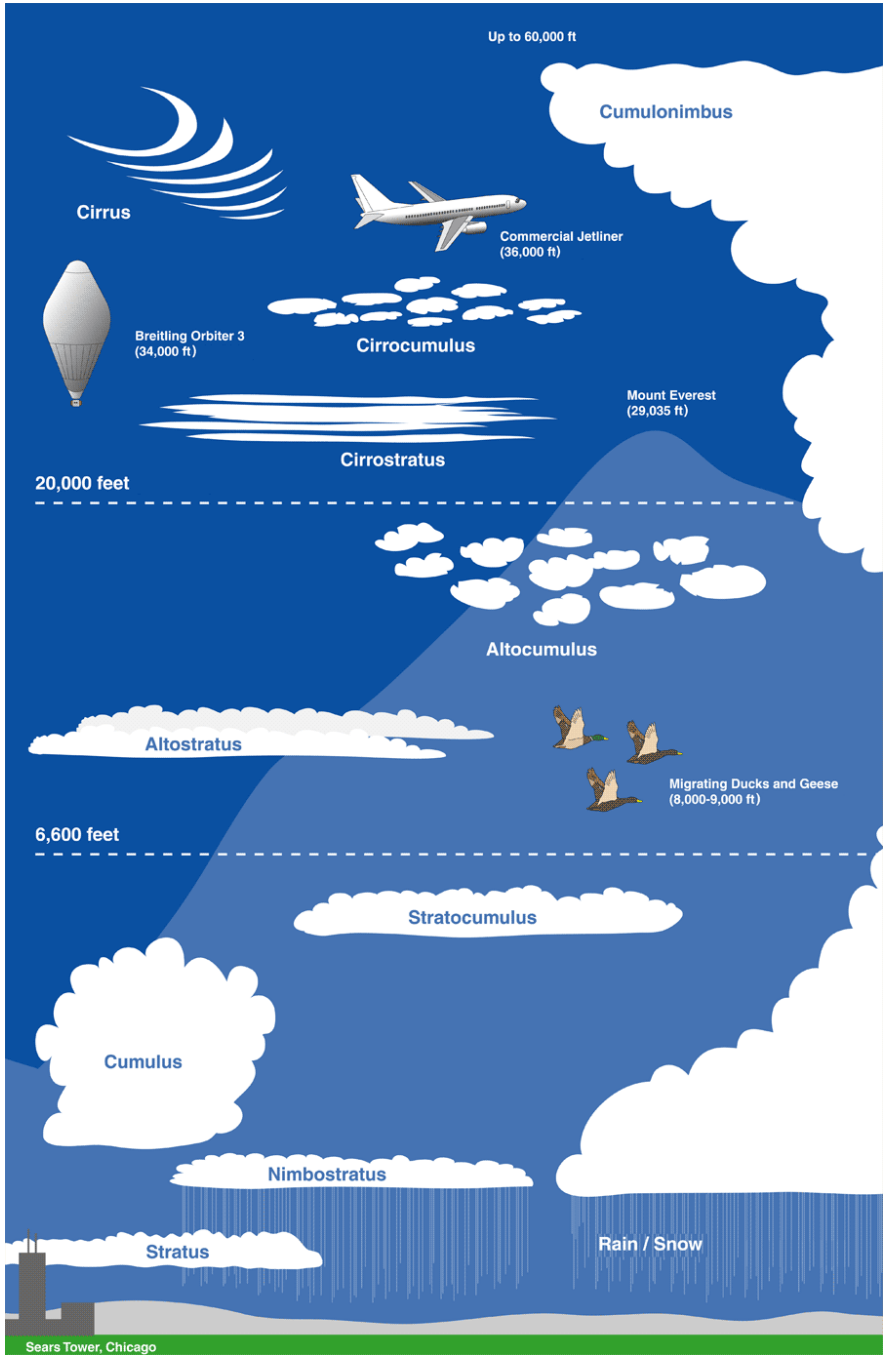
Altocumulus

Altostratus

Migrating Ducks and Geese
(8,000-9,000 ft)

6,600 feet

Stratocumulus



High clouds

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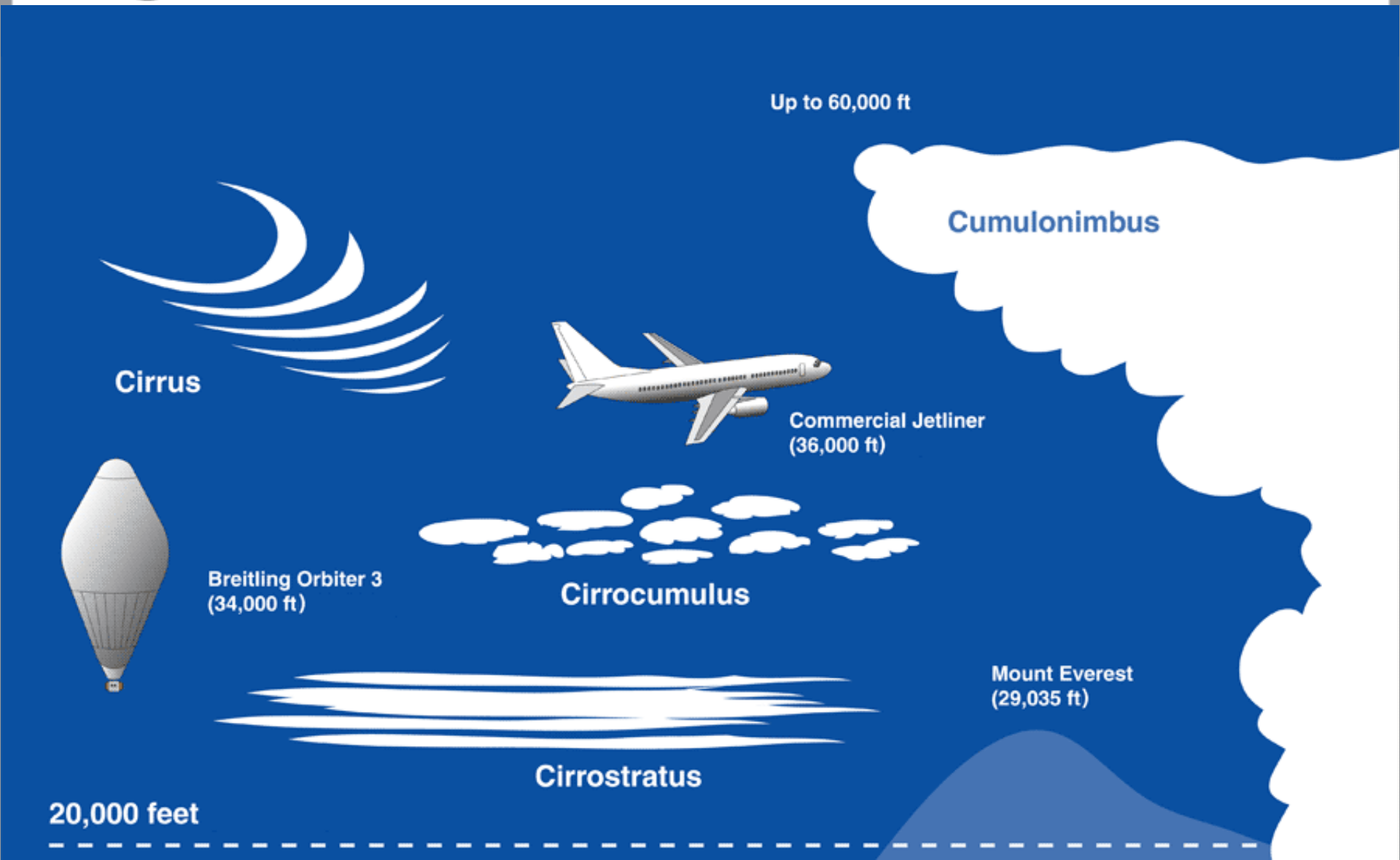
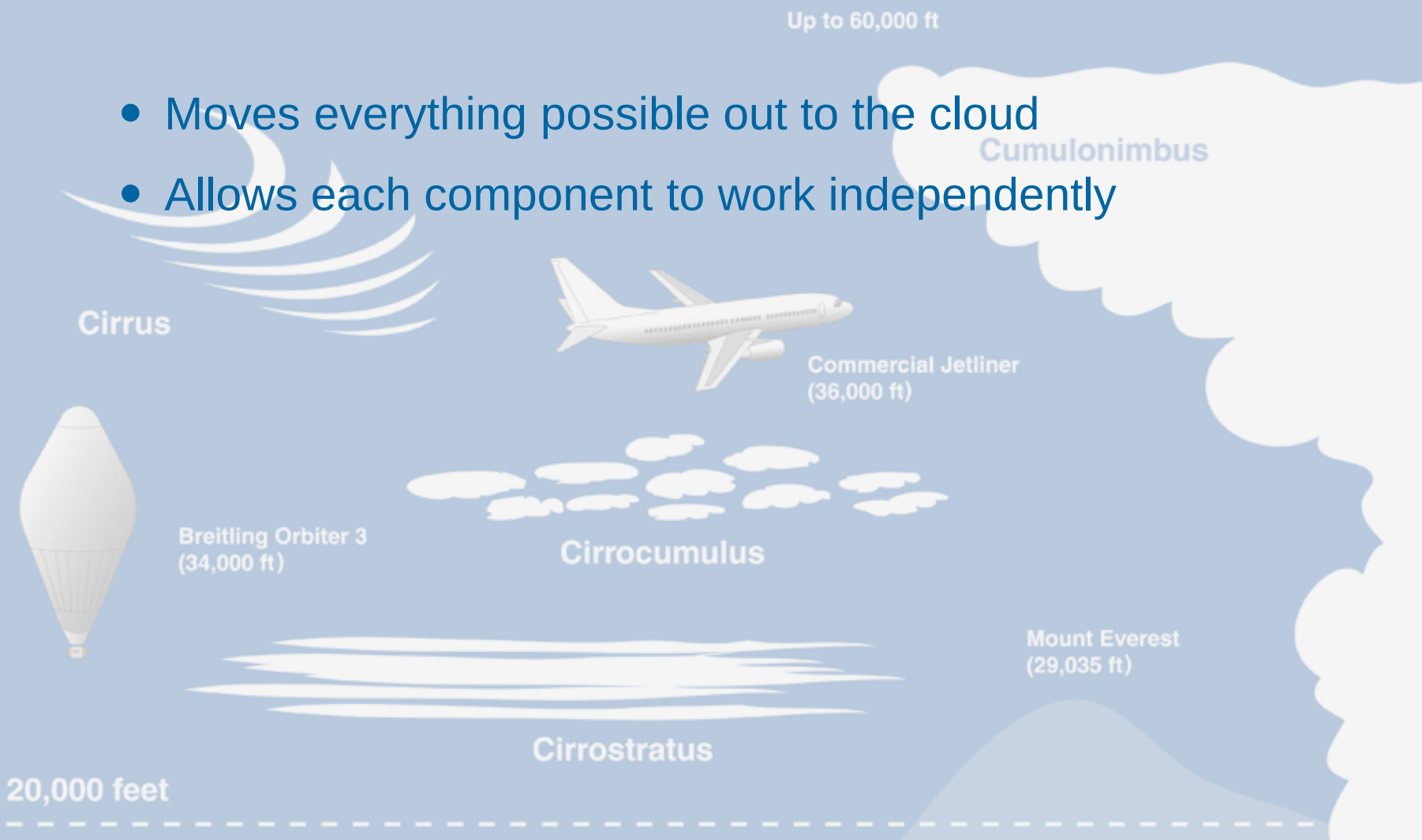


High cloud

- Moves everything possible out to the cloud
- Allows each component to work independently



High cloud

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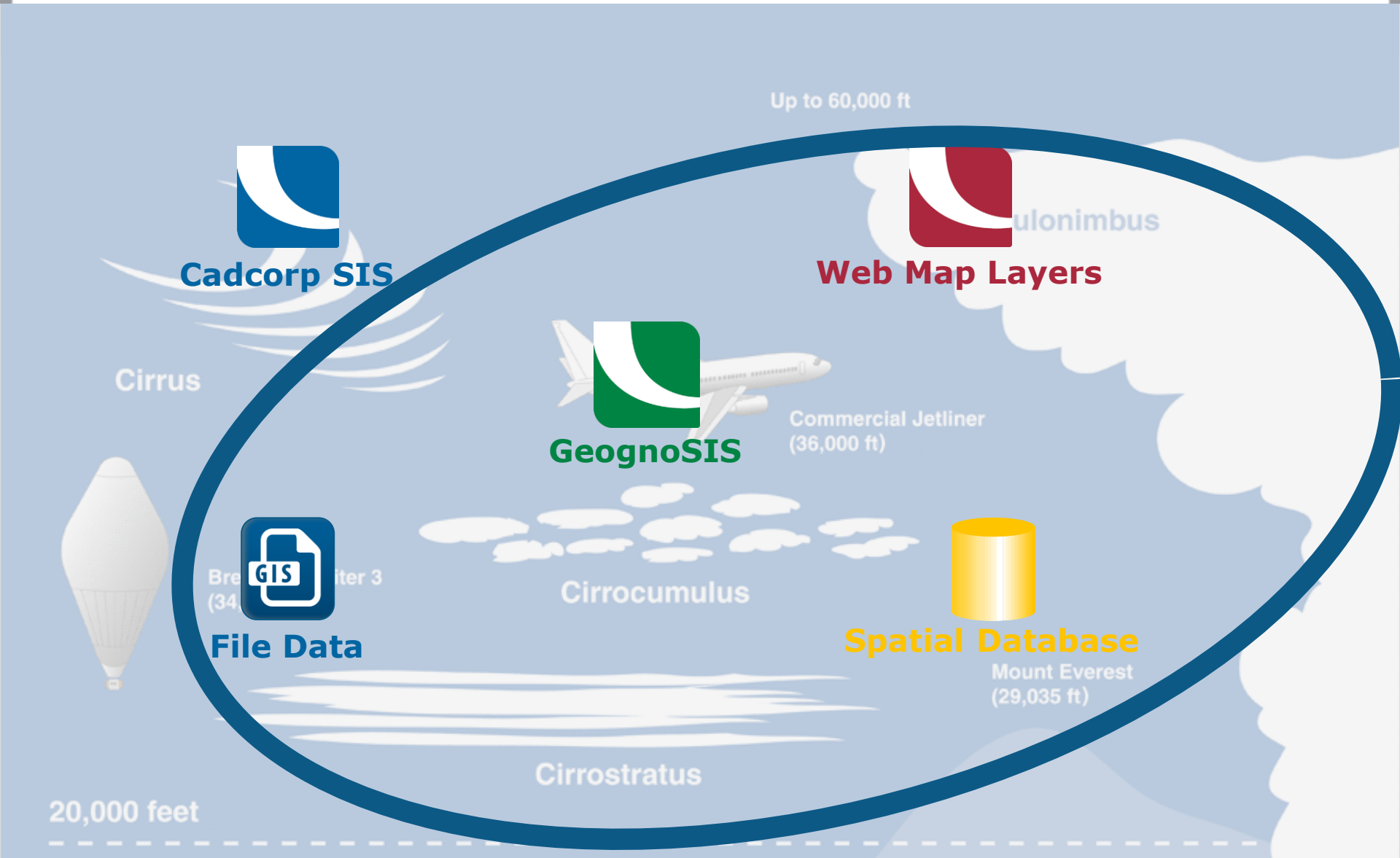

High cloud - connectivity

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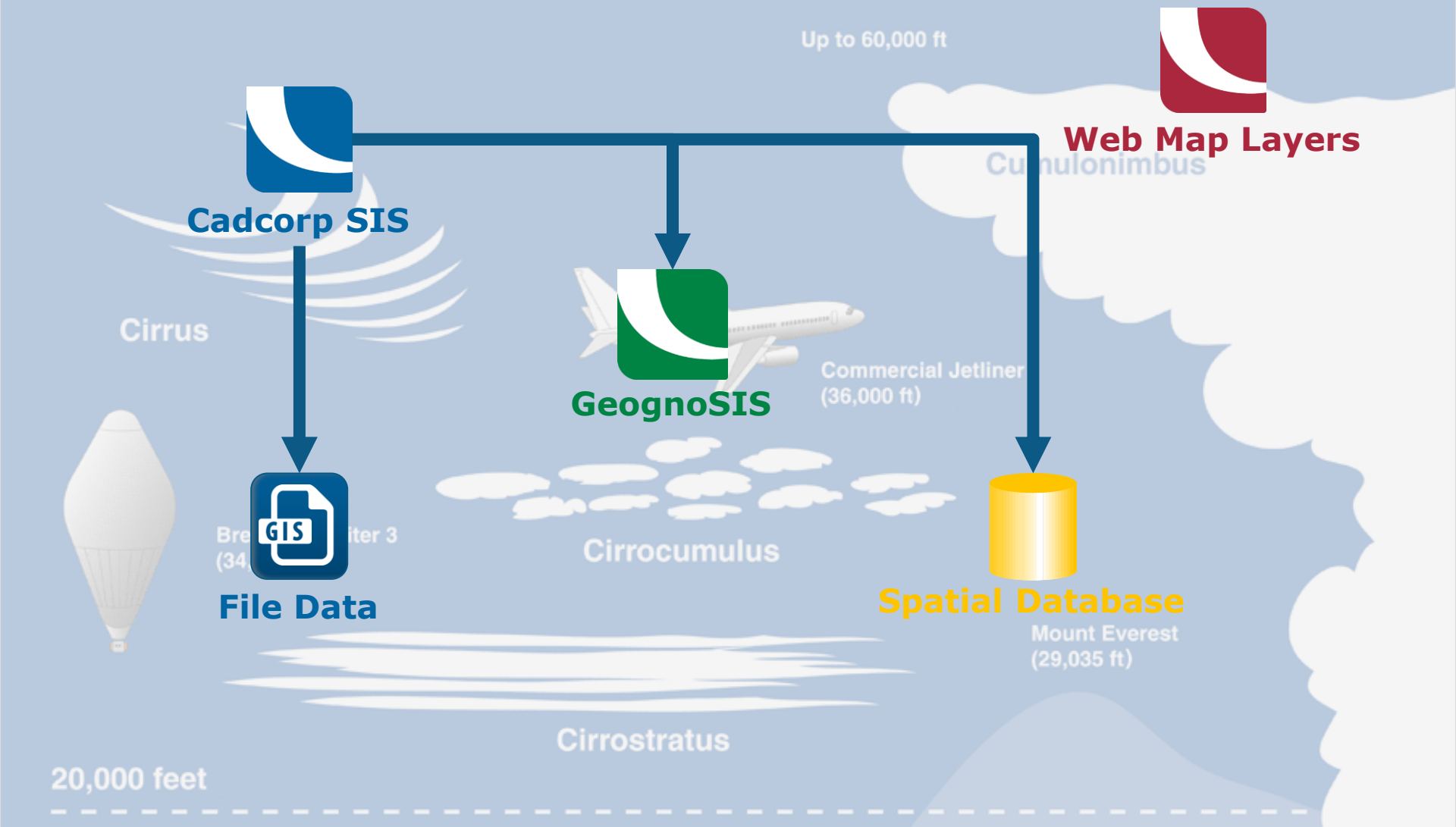
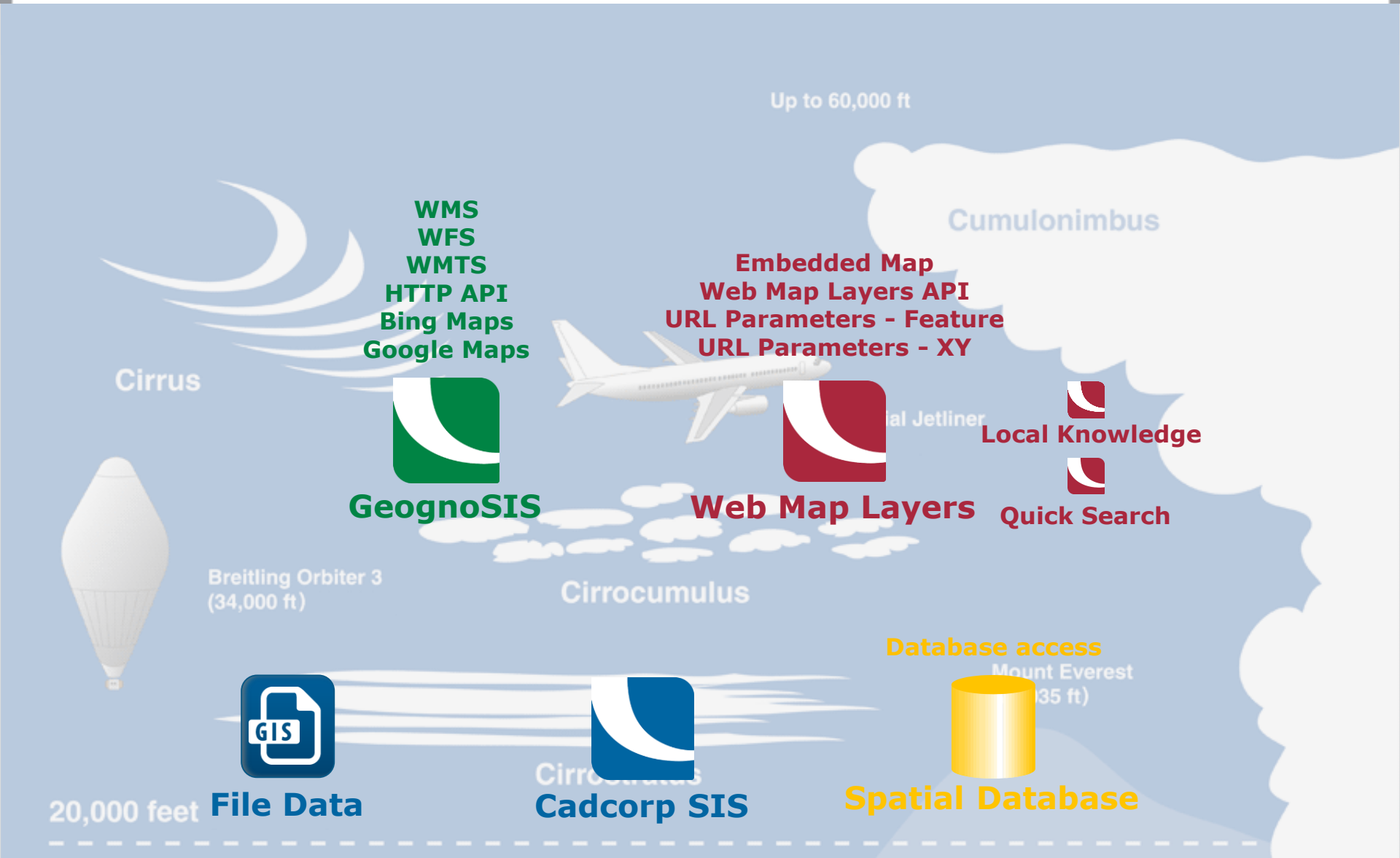
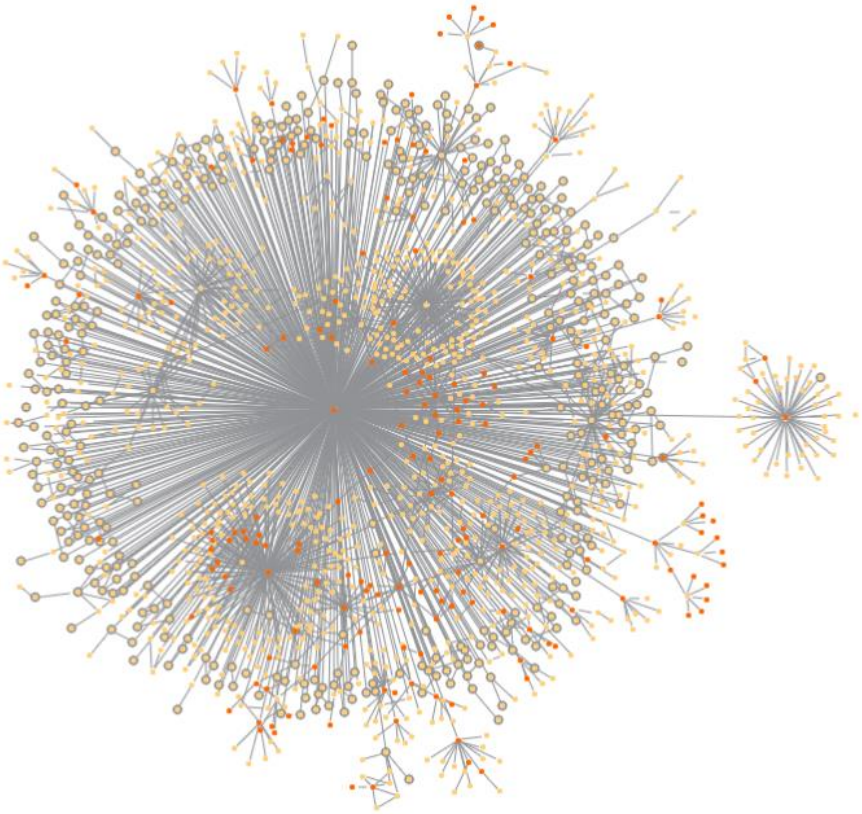


Cloud - connectivity



Connectivity

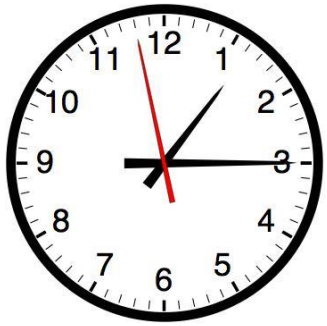


https://cambridge-intelligence.com/untangling-hairball-visualizing-donald-trumps-network/

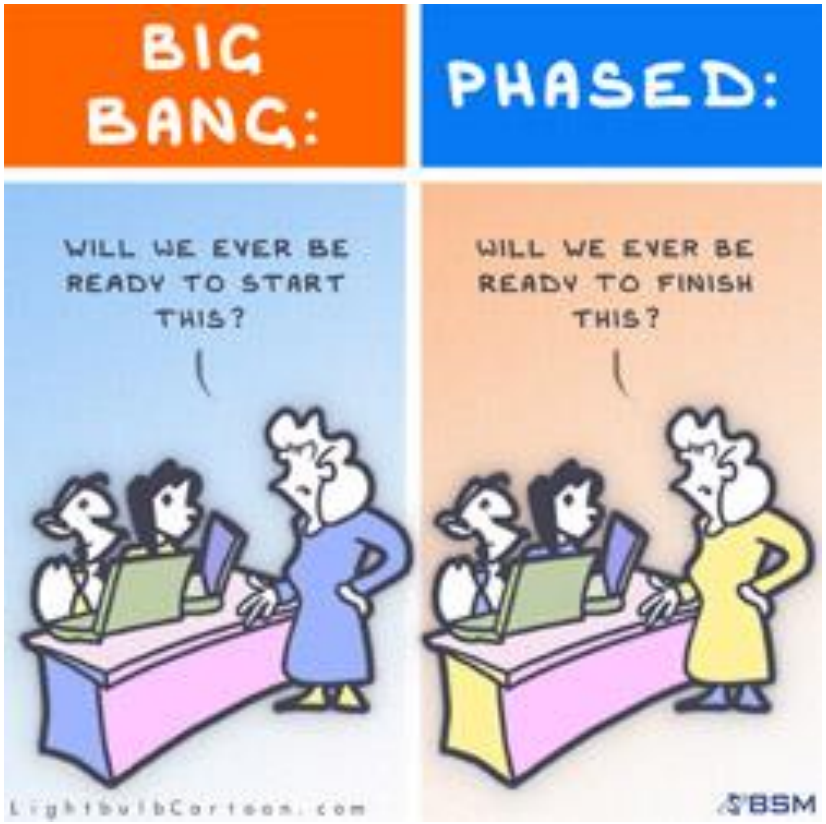
Should everything move to the cloud?

The office of the 1970s was built on paper files, the office of the 1980s was built on word processing, spreadsheets, and other PC software, and the office of the 1990s was built on websites. These days, the office is built on cloud-based apps. Joe McKendrick, forbes.com

Maybe, but not quite yet……



Phased approach or Big Bang?



Conclusions

What Cloud Computing Customers Want: Clarity, Simplicity, Support

Joe McKendrick, CONTRIBUTOR

I track how technology innovations move markets and careers **FULL BIO**

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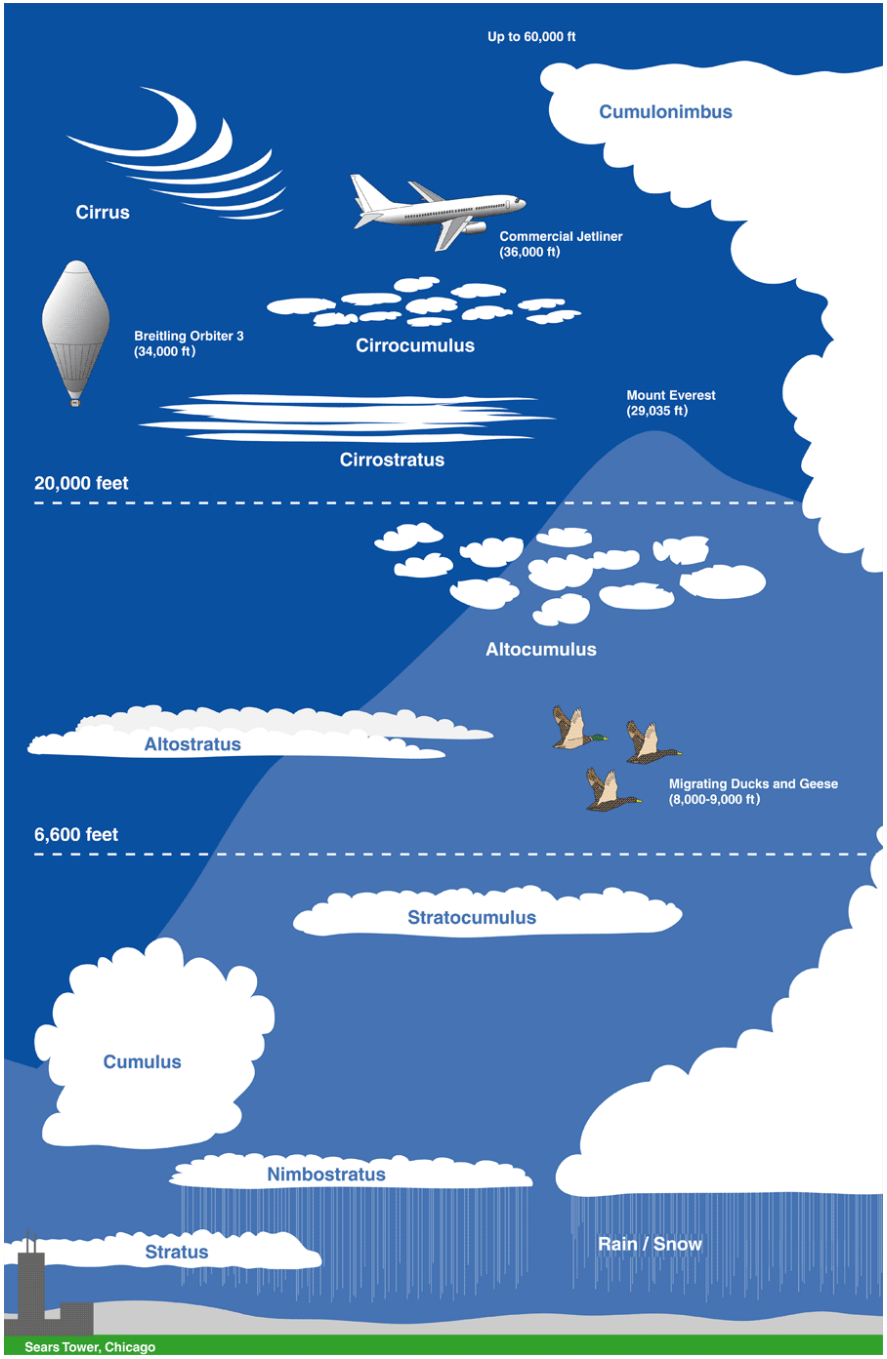
Up to 60,000 ft
Cumulonimbus
Cirrus
Commercial Jetliner
(36,000 ft)
Breitling Orbiter 3
(34,000 ft)
Cirrocumulus
Mount Everest
(29,035 ft)
Cirrostratus
20,000 feet
Altocumulus
Altostratus
Migrating Ducks and Geese
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Thank you