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Power BI Gateway: Understanding, Installing, Configuring

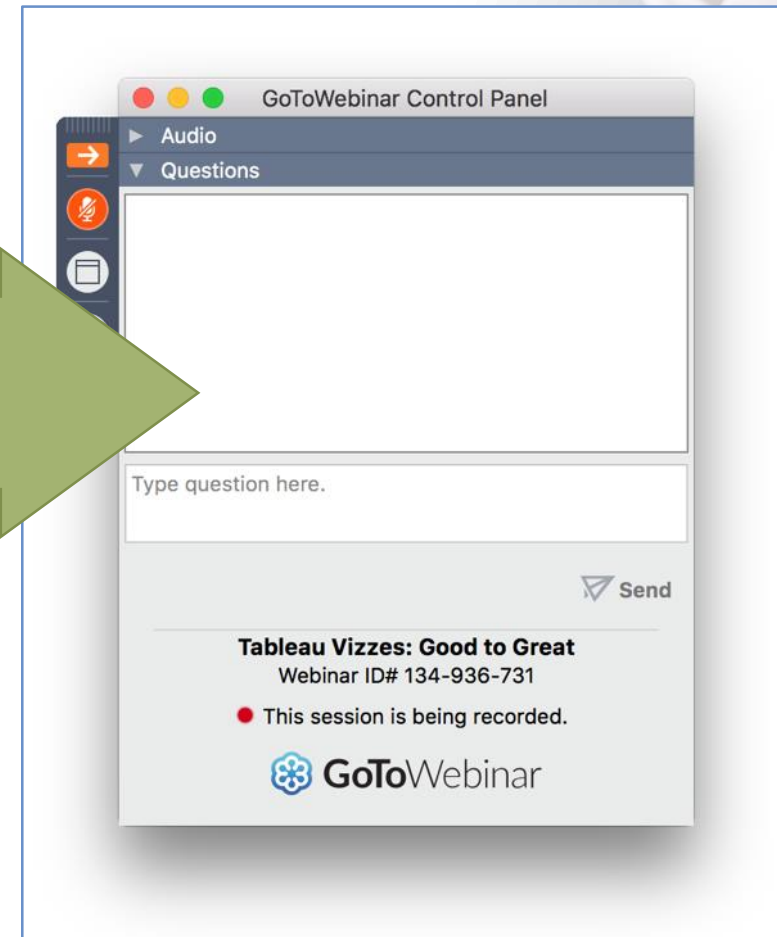# GoToWebinar control panel

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Agenda

Introductions

Understand what the gateway is

Install and configure the gateway

Senturus overview and additional resources
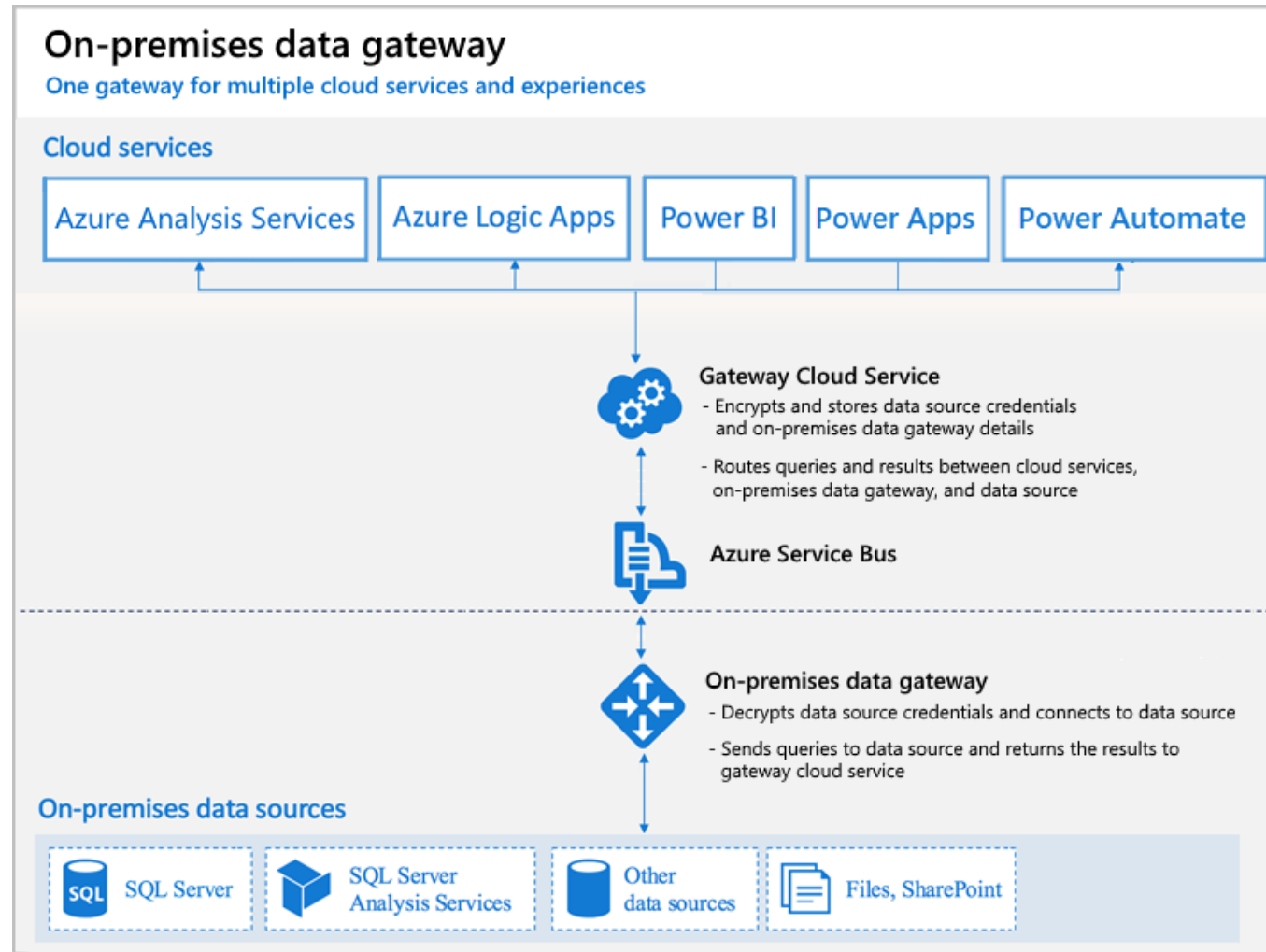
Q&A

Introductions

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On-premise gateway overview

- The on-premises data gateway acts as a bridge to provide quick and secure data transfer between on-premises data and several Microsoft cloud services.

- These cloud services include Power BI, PowerApps, Power Automate, Azure Analysis Services, and Azure Logic Apps.

- Securely use that on-premises data in cloud services.

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How the gateway works

On-premises data gateway
One gateway for multiple cloud services and experiences

Cloud services

Azure Analysis Services | Azure Logic Apps | Power BI | Power Apps | Power Automate

Gateway Cloud Service
- Encrypts and stores data source credentials and on-premises data gateway details
- Routes queries and results between cloud services, on-premises data gateway, and data source

Azure Service Bus

On-premises data gateway
- Decrypts data source credentials and connects to data source
- Sends queries to data source and returns the results to gateway cloud service

On-premises data sources

SQL Server | SQL Server Analysis Services | Other data sources | Files, SharePoint

Planning the gateway

- Needs to be installed on the server where the on-premise data source resides.

- The on-premise AD account must match the AAD account because the UPN (user principal name) must match on both sides.

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# Planning the gateway

Three different types of gateways:

1. On-premises data gateway
2. On-premises data gateway (personal mode)
3. Virtual network data gateway

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Planning the gateway

	On-premises data gateway (standard mode)	On-premises data gateway (personal mode)
Cloud services it works with	Power BI, Power Apps, Azure Logic Apps, Power Automate, Azure Analysis Services, Dataflows	Power BI
Serves multiple users with access control per data source	●	
Runs as an app for users who aren't administrators		●
Runs as a single user with your credentials		●
Import data and set up scheduled refresh	●	●
DirectQuery support	●	
Support for a live connection to Analysis Services	●	

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Gateway installation

- Can be downloaded directly from the Power BI service.

- Best practice is to choose standard versus personal.

- Recommended requirements:
  - An 8-core CPU
  - 8 GB of memory
  - A 64-bit version of Windows Server 2012 R2 or later
  - Solid-state drive (SSD) storage for spooling

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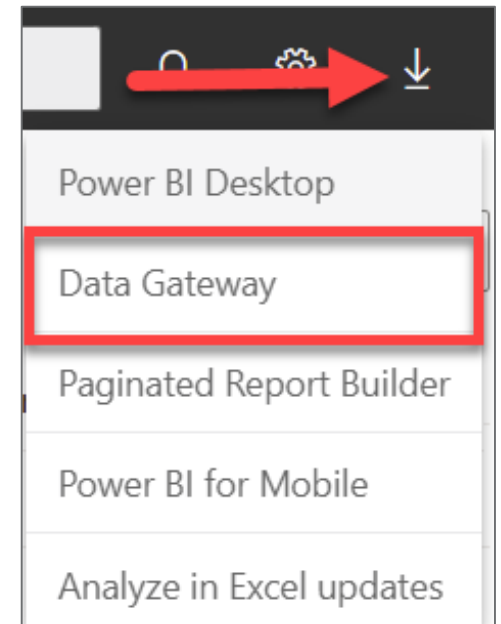
Configuring gateways

- Use the on-premise data gateway app to configure and manage the gateway.

- From the app you can see the status, current settings, run diagnostics, and set recovery keys.
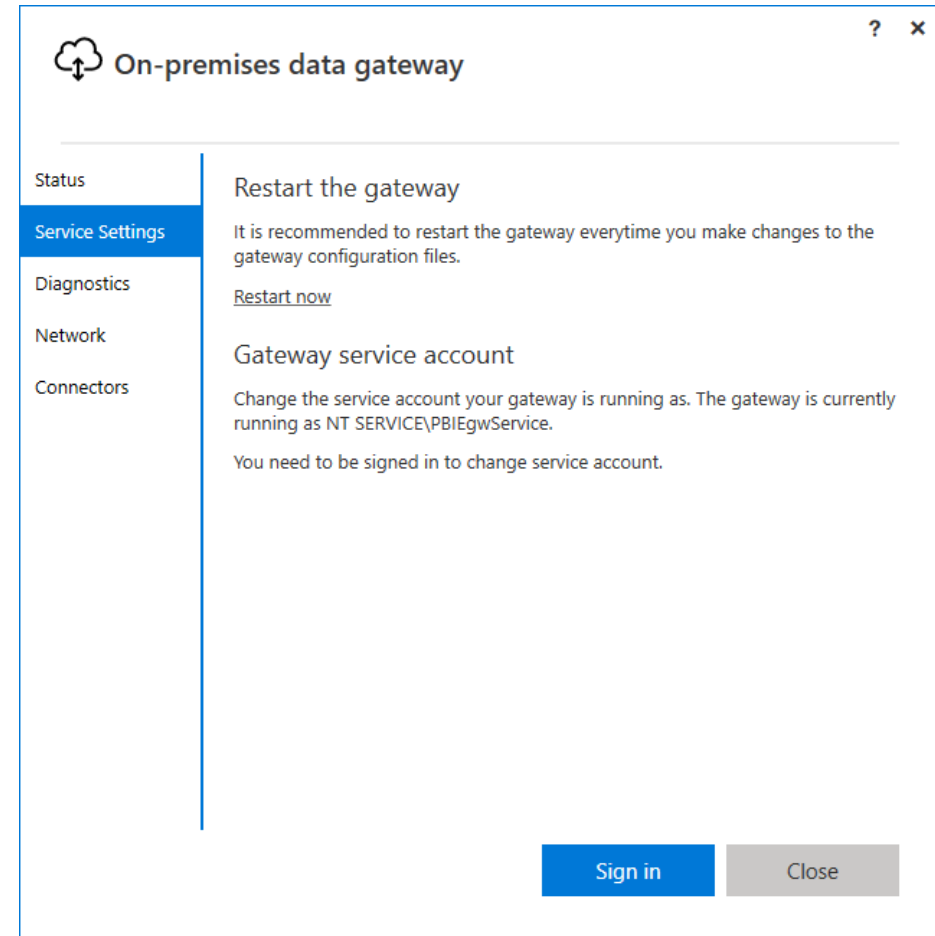
Managing gateways

- When you install a gateway, you are by default an admin of that gateway.

- Use the *Administrators* tab in the service to add more users, rename, and test a gateway

Managing gateways

From the same dialog box, you can add a data source from the gateway.

Troubleshooting & monitoring
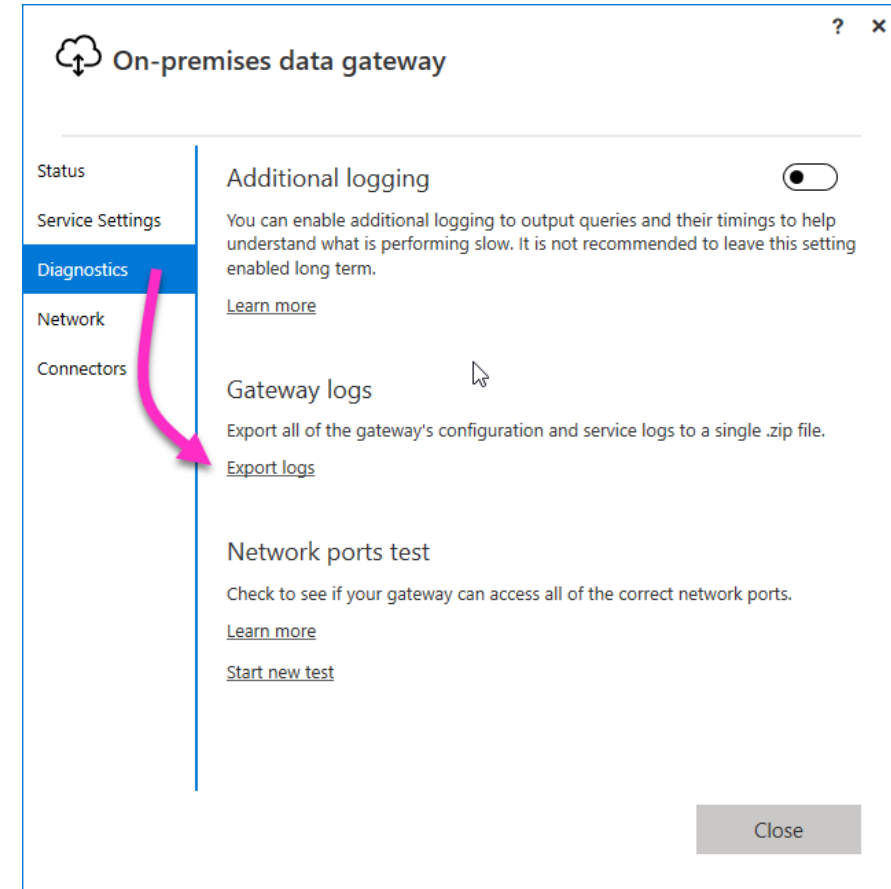
Update to the latest version

- Good general practice: make sure you're using a supported version.
- Releases are monthly.
- Currently, Microsoft actively supports only the last six releases.

Find common errors & solutions on the Microsoft site

- https://docs.microsoft.com/en-us/data-integration/gateway/service-gateway-tshoot

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Troubleshooting & monitoring

Logs can be collected from the gateway app.

Power BI demo

Installing and configuring the gateway

Summary

Leverage	Leverage the on-premise gateway to access all the data in your organization.
Plan out	Thoroughly plan out the installation, location, and security of the gateway.
Visit	Visit the Microsoft website to keep your gateway up to date and find troubleshooting help for common issues.

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Learn more

Power BI Administration & Best Practices

https://senturus.com/training-courses/power-bi/administration-best-practices/

Full Power BI course catalog

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Additional resources
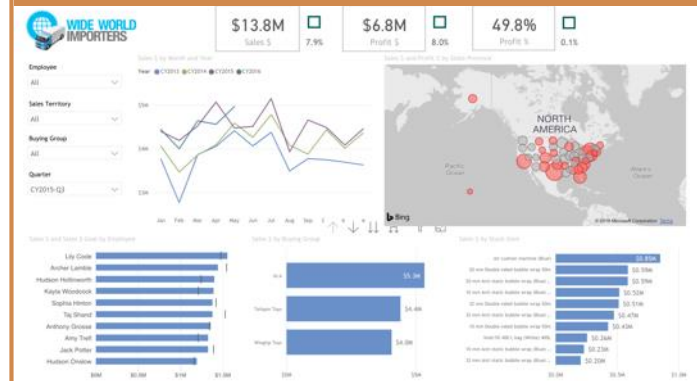
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Upcoming events

Upcoming events

Cognos Analytics Performance Tuning

Thursday, May 12, 2022, 11am PT/2pm ET

https://senturus.com/events/cognos-analytics-performance-tuning/

Zero Gravity Virtual Conference by Incorta

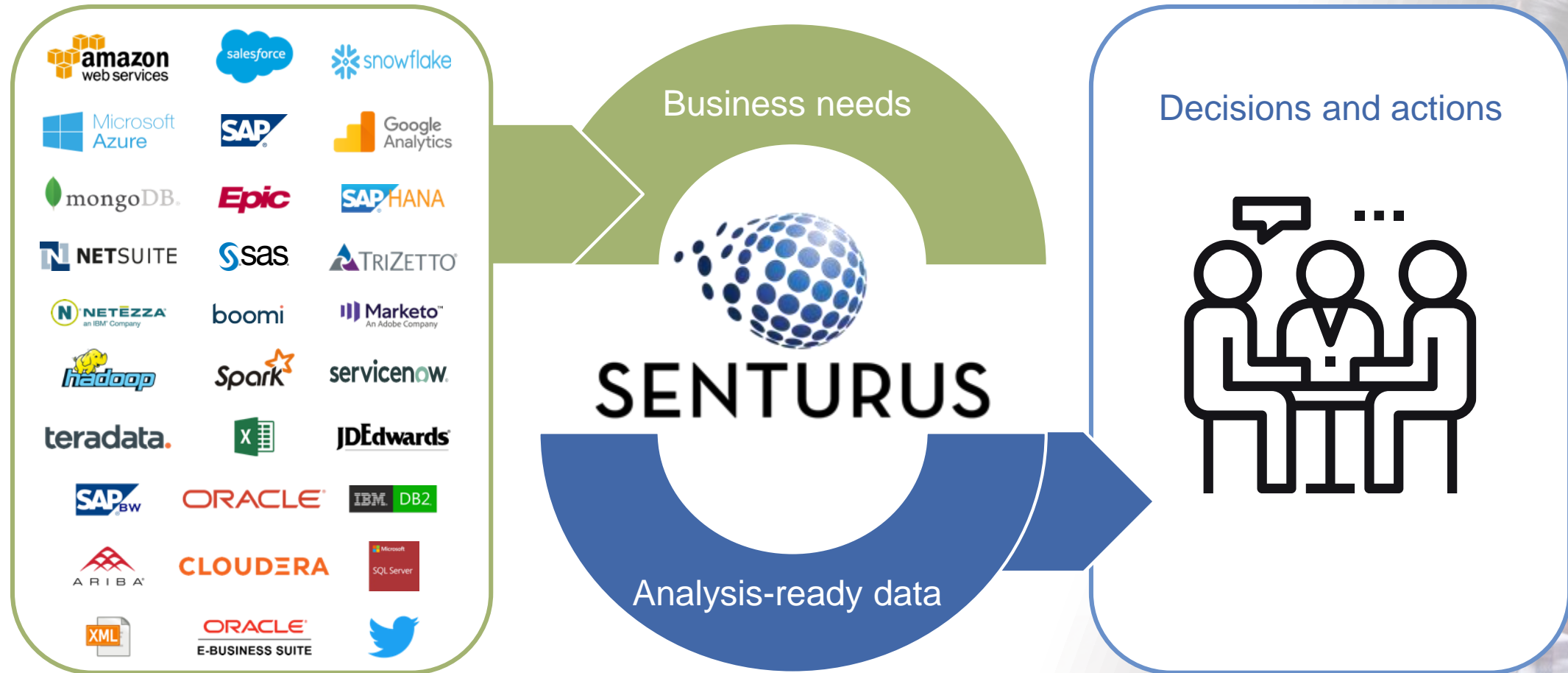A modern cloud data pipeline event

Thursday, May 26, 2022, 8am – 2pm PT

https://www.incorta.com/zerogravity

Power Automate for Power BI Webinar: Work Smarter, Not Harder

Thursday, May 19, 2022, 11am PT/2pm ET

https://senturus.com/events/power-automate-for-power-bi-work-smarter-not-harder/

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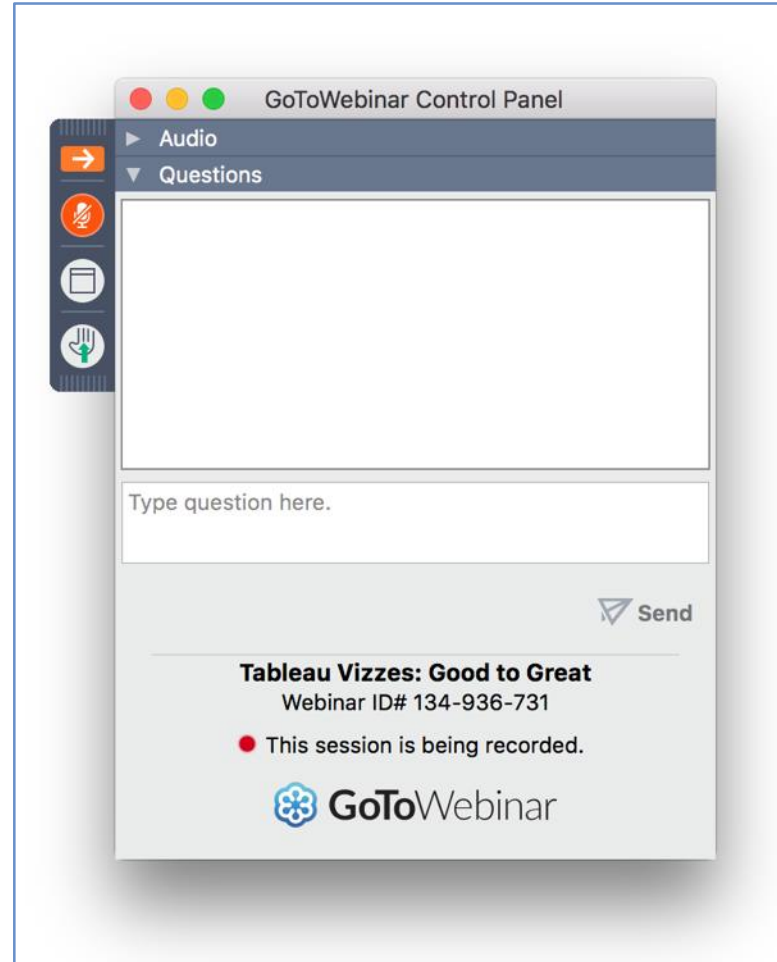- Senior Data Warehouse/Cognos BI Consultant

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Q & A

If your question or issue is broader than what we are able to answer today, contact us at:

info@senturus.com

and we will set up a free consultation.

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Thank You