



Dutch Microsoft & Security *meetup*

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Get-AzSpeaker | Format-Table_

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Microsoft
Sentinel

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3 pro-tips every Microsoft Sentinel admin should know



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Tips for Microsoft Sentinel

Agenda

1. Collect your logs with AMA
2. Use automation to your advantage
3. Be as cost effective as possible

A ‘legacy’ solution



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Tips for Microsoft Sentinel

Collect your logs with AMA

- AMA is meant to replace MMA
- MMA = end of life on August 31st 2024
- MMA vs AMA
 - Workspace ID + key?
 - Log selection vs DCR (with XPath)
 - Centralized data collection configuration
 - Multi-homing for Linux!
 - Azure Arc is required for on-premises machines

Tips for Microsoft Sentinel

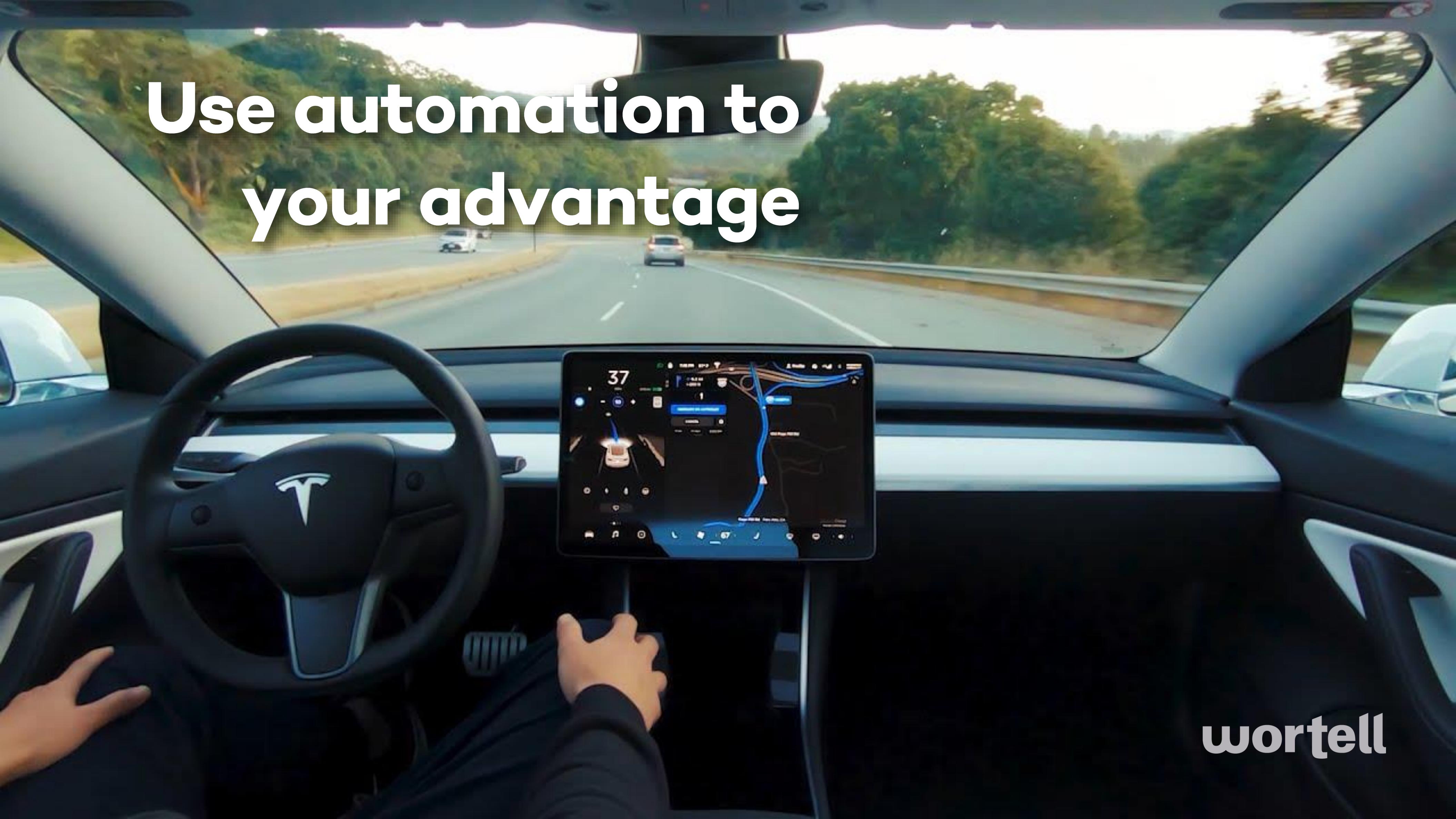
Collect your logs with AMA

- Transition is not fully complete (yet)
 - File based logs or IIS logs
 - Defender for Cloud still relies MMA
 - Windows DNS for Sentinel
 - Linux CEF/Syslog
 - Windows Event Forwarding (WEF)

Tips for Microsoft Sentinel

Collect your logs with AMA

- Transition is now available
 - Filebeat
 - Logstash
 - AWS CloudWatch Metrics (CloudWatch Metrics)
 - Linux CloudWatch Metrics (CloudWatch Metrics)
 - Windows CloudWatch Metrics (CloudWatch Metrics)
- 
- A cartoon illustration of a man with brown hair, wearing a white shirt and a green tie, speaking into a large blue megaphone. A white speech bubble with a blue border is positioned to his left, containing the text "LIVE DEMO". The background is dark purple.



Use automation to
your advantage

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Tips for Microsoft Sentinel

Use automation to your advantage

- SOAR?
- Based on Azure Logic Apps
- Enrich your incidents

Tips for Microsoft Sentinel

Use automation to your advantage

- SOAR?
- Based on...
- Enrich...



<https://bit.ly/3Jr4glP>

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Tips for Microsoft Sentinel

Use automation to your advantage

- SOAR?
- Based on Azure Logic Apps
- Enrich your incidents
- Automate investigation

Tips for Microsoft Sentinel

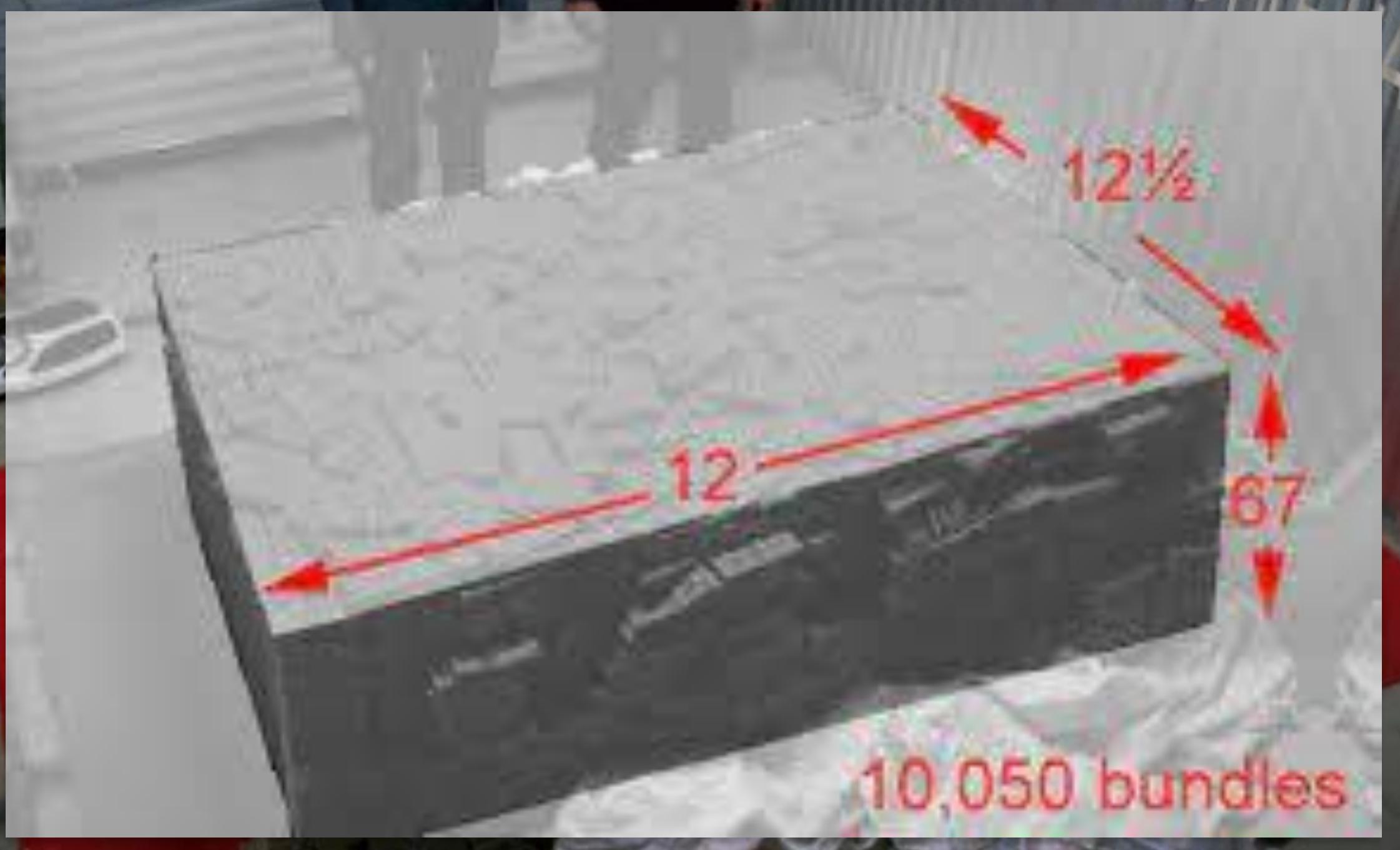
Use automation to your advantage

- SOAR?
- Based on...
- Enriched...
- Automate...

LIVE DEMO



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Tips for Microsoft Sentinel

Be as cost effective as possible

- Pricing tiers

Tips for Microsoft Sentinel

Be as cost effective as possible

The image displays two screenshots side-by-side. The left screenshot shows the Microsoft Sentinel 'Settings' page under the 'Pricing' tab. It lists various service tiers: 100 GB/day, 200 GB/day, 300 GB/day, 400 GB/day (marked as the 'Current tier'), 500 GB/day, 1 TB/day, 2 TB/day, 5 TB/day, and Pay-as-you-go. The right screenshot shows the Log Analytics workspace 'Usage and estimated costs' page, which provides a detailed breakdown of costs across different pricing tiers (100 GB/day, 200 GB/day, 300 GB/day, 400 GB/day, 500 GB/day, 1000 GB/day, 2000 GB/day) based on daily data volume and discounts over Pay-as-you-go.

Microsoft Sentinel | Settings

Selected workspace: [REDACTED]

Pricing Settings Workspace settings >

General

- Overview
- Logs
- News & guides
- Search (Preview)

Threat management

- Incidents
- Workbooks
- Hunting
- Notebooks
- Entity behavior
- Threat intelligence
- MITRE ATT&CK

Content management

- Content hub (Preview)
- Repositories (Preview)
- Community

Configuration

- Data connectors
- Analytics
- Watchlist
- Automation

Settings

Microsoft Sentinel pricing

Microsoft Sentinel is billed based on the volume of data ingested for analysis in Microsoft Sentinel. Microsoft Sentinel offers a flexible and predictable pricing model. There are two ways to pay for the Microsoft Sentinel service: Commitment Tiers and Pay-As-You-Go. The cost for Microsoft Sentinel depends on the pricing tier selected. Learn more about [Microsoft Sentinel pricing](#).

This does not include the Azure Log Analytics price for ingesting data. Learn more about [Log Analytics pricing](#).

- 100 GB/day
50% discount over Pay-as-you-go
- 200 GB/day
55% discount over Pay-as-you-go
- 300 GB/day
57% discount over Pay-as-you-go
- 400 GB/day
58% discount over Pay-as-you-go
- 500 GB/day
60% discount over Pay-as-you-go
- 1 TB/day
61% discount over Pay-as-you-go
- 2 TB/day
63% discount over Pay-as-you-go
- 5 TB/day
65% discount over Pay-as-you-go
- Pay-as-you-go**
Per GB

Log Analytics workspace | Usage and estimated costs

Search (Ctrl+ /)

Usage details Daily cap Data Retention Help

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Locks

Agents management

Agents configuration

Custom logs

Computer Groups

Data Export

Linked storage accounts

Network Isolation

Tables (preview)

General

Workspace summary

Workbooks

Logs

Solutions

Usage and estimated costs

Properties

Service Map

Your Log Analytics cost depends on your choice of pricing tier, data retention and which solutions are used. Here you can see the estimated monthly cost for each of the available pricing tiers, based on your last 31-days of Log Analytics data ingested. These cost estimates can be used to help you select the best pricing tier based on your data ingestion patterns. These estimates include the 500MB/VM/day data allowances if you are using Microsoft Defender. This page does not reflect your actual billed usage. To view that, use Azure Cost Management ([learn more](#)). If you have questions about using this page, [contact us](#). Learn more about [Log Analytics pricing](#).

You have insufficient permissions to modify the workspace.

Pricing Tiers

- Pay-as-you-go**
Per GB
- 100 GB/day Commitment Tier**
15% discount over Pay-as-you-go
- 200 GB/day Commitment Tier**
20% discount over Pay-as-you-go
- 300 GB/day Commitment Tier**
22% discount over Pay-as-you-go
- 400 GB/day Commitment Tier**
23% discount over Pay-as-you-go
- 500 GB/day Commitment Tier**
25% discount over Pay-as-you-go
- 1000 GB/day Commitment Tier**
26% discount over Pay-as-you-go
- 2000 GB/day Commitment Tier**
28% discount over Pay-as-you-go

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Tips for Microsoft Sentinel

Be as cost effective as possible

The image displays two screenshots side-by-side, both titled "Usage and estimated costs".

Left Screenshot: Microsoft Sentinel | Settings - Pricing

This screenshot shows the Microsoft Sentinel pricing page. It lists various data ingestion tiers with their discounts over Pay-as-you-go:

- 100 GB/day: 50% discount over Pay-as-you-go
- 200 GB/day: 55% discount over Pay-as-you-go
- 300 GB/day: 57% discount over Pay-as-you-go
- 400 GB/day**: 58% discount over Pay-as-you-go. This tier is highlighted with a red oval and marked as the "Current tier".
- 500 GB/day: 60% discount over Pay-as-you-go
- 1 TB/day: 61% discount over Pay-as-you-go
- 2 TB/day: 63% discount over Pay-as-you-go
- 5 TB/day: 65% discount over Pay-as-you-go
- Pay-as-you-go**: Per GB

Right Screenshot: [Redacted] | Usage and estimated costs

This screenshot shows the Log Analytics workspace usage and estimated costs page. It lists various commitment tiers with their discounts over Pay-as-you-go:

- Pay-as-you-go**: Per GB
- 100 GB/day Commitment Tier**: 15% discount over Pay-as-you-go
- 200 GB/day Commitment Tier**: 20% discount over Pay-as-you-go
- 300 GB/day Commitment Tier**: 22% discount over Pay-as-you-go. This tier is highlighted with a red oval.
- 400 GB/day Commitment Tier**: 23% discount over Pay-as-you-go
- 500 GB/day Commitment Tier**: 25% discount over Pay-as-you-go
- 1000 GB/day Commitment Tier**: 26% discount over Pay-as-you-go
- 2000 GB/day Commitment Tier**: 28% discount over Pay-as-you-go

A message at the top of the right screenshot states: "Your Log Analytics cost depends on your choice of pricing tier, data retention and which solutions are used. Here you can see the estimated monthly cost for each of the available pricing tiers, based on your last 31-days of Log Analytics data ingested. These cost estimates can be used to help you select the best pricing tier based on your data ingestion patterns. These estimates include the 500MB/VM/day data allowances if you are using Microsoft Defender. This page does not reflect your actual billed usage. To view that, use Azure Cost Management (learn more). If you have questions about using this page, contact us. Learn more about Log Analytics pricing."

A blue banner at the bottom of the right screenshot says: "You have insufficient permissions to modify the workspace."

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Tips for Microsoft Sentinel

Be as cost effective as possible

The screenshot shows an Excel spreadsheet titled "sentinel-pricing-tiers-and-recommendation-thresholds.xlsx". The spreadsheet contains two main sections: "Microsoft Sentinel pricing" and "Log Analytics / Azure Monitor".

Microsoft Sentinel pricing

West Europe [€]

	€	2,34 /GB	Threshold
	€ 117,00	100 GB / day	> 50 GB
	€ 210,00	200 GB / day	> 140 GB
	€ 304,00	300 GB / day	> 240 GB
	€ 389,00	400 GB / day	> 336 GB
	€ 467,00	500 GB / day	> 433 GB
	€ 910,00	1000 GB / day	> 689 GB
	€ 1.726,00	2000 GB / day	> 1349 GB
	€ 4.082,00	5000 GB / day	> 3007 GB

Fill in your own rates or check <https://azure.microsoft.com/en-us/pricing/details/microsoft-sentinel/>

Log Analytics / Azure Monitor

West Europe [€]

	€	2,68 / GB	Threshold
	€ 226,79	100 GB / day	> 85 GB
	€ 425,80	200 GB / day	> 174 GB
	€ 624,81	300 GB / day	> 274 GB
	€ 814,57	400 GB / day	> 371 GB
	€ 1.000,86	500 GB / day	> 469 GB
	€ 1.967,00	1000 GB / day	> 860 GB
	€ 3.841,43	2000 GB / day	> 1699 GB
	€ 9.314,29	5000 GB / day	> 4041 GB

Fill in your own rates or check <https://azure.microsoft.com/en-us/pricing/details/monitor/>

Sheet1

Ready Accessibility: Investigate

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Tips for Microsoft Sentinel

Be as cost effective as possible

Pricing

€	2,68	/ GB	Threshold
€	226,79	100 GB / day	> 85 GB
€	425,80	200 GB / day	> 174 GB
€	624,81	300 GB / day	> 274 GB
€	814,57	400 GB / day	> 371 GB
€	1.000,86	500 GB / day	> 469 GB
€	1.967,00	1000 GB / day	> 860 GB
€	3.841,43	2000 GB / day	> 1699 GB
€	9.314,29	5000 GB / day	> 4041 GB

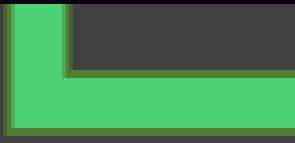


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Tips for Microsoft Sentinel

Be as cost effective as possible



Fill in your own rates or check <https://azure.microsoft.com/pricing/details/sentinel/>

€	2,34	/GB
€	117,00	100 GB / day
€	210,00	200 GB / day
€	304,00	300 GB / day
€	389,00	400 GB / day
€	467,00	500 GB / day
€	910,00	1000 GB / day
€	1.726,00	2000 GB / day
€	4.082,00	5000 GB / day

Threshold
> 50 GB
> 140 GB
> 240 GB
> 336 GB
> 433 GB
> 689 GB
> 1349 GB
> 3007 GB



Fill in your own rates or check <https://azure.microsoft.com/pricing/details/sentinel/>

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Tips for Microsoft Sentinel

Be as cost effective as possible

The screenshot shows an Excel spreadsheet titled "sentinel-pricing-tiers-and-recommendation-thresholds.xlsx". The spreadsheet contains two main sections: "Microsoft Sentinel pricing" and "Get-AzSentinelPricingRecommendation.ps1".

Microsoft Sentinel pricing: This section shows Log Analytics / Azure Monitor workspaces in West Europe [€]. It lists workspace names, subscription names, and various metrics. One row is highlighted with a red border, showing a sentinelEnabled value of "true", averageDailyIngest of 165.71, and bestLogAnalyticsTier of "100 GB / day".

workspaceName	SubscriptionName	sentinelEnabled	averageDailyIngest	bestLogAnalyticsTier	bestSentinelTier
[REDACTED]	[REDACTED]	false	0	Pay per GB	N/A
[REDACTED]	[REDACTED]	true	28.58	Pay per GB	Pay per GB
[REDACTED]	[REDACTED]	false	0	Pay per GB	N/A
[REDACTED]	[REDACTED]	true	165.71	100 GB / day	200 GB / day
[REDACTED]	[REDACTED]	true	6.96	Pay per GB	Pay per GB
[REDACTED]	[REDACTED]	true	21.39	Pay per GB	Pay per GB
[REDACTED]	[REDACTED]	true	0.24	Pay per GB	Pay per GB

Get-AzSentinelPricingRecommendation.ps1: This section displays a table of prices per GB. A dropdown menu labeled "Threshold" is open, showing price points for different ingest thresholds: > 50 GB, > 140 GB, > 240 GB, > 336 GB, > 433 GB, > 689 GB, > 1349 GB, and > 3007 GB.

Threshold	Price
> 50 GB	117,00
> 140 GB	210,00
> 240 GB	304,00
> 336 GB	389,00
> 433 GB	467,00
> 689 GB	910,00
> 1349 GB	1.726,00
> 3007 GB	4.082,00

At the bottom, there is a note: "Fill in your own rates or check <https://azure.microsoft.com/en-us/pricing/details/microsoft-sentinel/>".

<https://bit.ly/3vuVPkL>

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Tips for Microsoft Sentinel

Be as cost effective as possible

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Tips for Microsoft Sentinel

Be as cost effective as possible

- Pricing tiers
- Retention
 - Workspace
90 days for free, max 2 years
 - Table level
- Daily cap

Tips for Microsoft Sentinel

Be as cost effective as possible

The screenshot shows the Microsoft Sentinel Settings page with the 'Pricing' tab selected. A red callout '1' points to the 'Settings' link at the bottom of the left sidebar. Another red callout '2' points to the 'Workspace settings >' link in the top navigation bar.

Microsoft Sentinel | Settings
Selected workspace: 'sentinel-prd-weu-01'

Search (Ctrl+ /) < Pricing Settings Workspace settings > 2

General

- Overview
- Logs
- News & guides
- Search (Preview)

Threat management

- Incidents
- Workbooks
- Hunting
- Notebooks
- Entity behavior
- Threat intelligence
- MITRE ATT&CK

Content management

- Content hub (Preview)
- Repositories (Preview)
- Community

Configuration

- Data connectors
- Analytics
- Watchlist
- Automation
- Settings

Microsoft Sentinel pricing

Microsoft Sentinel is billed based on the volume of data ingested for analysis in Microsoft Sentinel. Microsoft Sentinel offers a flexible and predictable pricing model. There are two ways to pay for the Microsoft Sentinel service: Commitment Tiers and Pay-As-You-Go. The cost for Microsoft Sentinel depends on the pricing tier selected. Learn more about [Microsoft Sentinel pricing](#).

100 GB/day
50% discount over Pay-as-you-go

200 GB/day
55% discount over Pay-as-you-go

300 GB/day
57% discount over Pay-as-you-go

400 GB/day Current tier
58% discount over Pay-as-you-go

500 GB/day
60% discount over Pay-as-you-go

1 TB/day
61% discount over Pay-as-you-go

2 TB/day
63% discount over Pay-as-you-go

5 TB/day
65% discount over Pay-as-you-go

Pay-as-you-go
Per GB

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Tips for Microsoft Sentinel

Be as cost effective as possible

2

Pricing

volume of data collected. Microsoft pricing model. Log Sentinel Go-Go. The cost per pricing tier. Sentinel pricing.

Analytics price for Analytics pricing.

go

go

Current tier

3

sentinel-prd-weu-01 | Usage and estimated costs

Log Analytics workspace

Search (Ctrl+ /)

Usage details Daily cap 4 Action Help

Data ingestion (Last 31 days)

Data retained per solution (Last 31 days)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Locks

Agents management

Agents configuration

Custom logs

Computer Groups

Data Export

Linked storage accounts

Network Isolation

Tables (preview)

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Service Map

Your Log Analytics cost depends on your choice of pricing tier, data retention and which solutions are used. Here you can see the estimated monthly cost for each of the available pricing tiers, based on your last 31-days of Log Analytics data ingested. These cost estimates can be used to help you select the best pricing tier based on your data ingestion patterns. These estimates include the 500MB/VM/day data allowances if you are using Microsoft Defender. This page does not reflect your actual billed usage. To view that, use Azure Cost Management (learn more). If you have questions about using this page, contact us. Learn more about Log Analytics pricing.

You have insufficient permissions to modify the workspace.

Pricing Tiers

Pay-as-you-go

Per GB

100 GB/day Commitment Tier

15% discount over Pay-as-you-go

200 GB/day Commitment Tier

20% discount over Pay-as-you-go

300 GB/day Commitment Tier

22% discount over Pay-as-you-go

The 300 GB/day Commitment Tier tier provides you with a fixed predictable fee with a 22% discount over the Pay-as-you-go pricing. Data ingested above the Commitment Tier (overage) is billed at the pro-rated per GB rate of this tier. There are additional charges if you increase the data retention above the 31 day included retention (or 90 day included retention if using Sentinel on this workspace). Learn more about Log Analytics pricing.

Estimated costs

Item type	Price	Estimated
Monthly usage (last 31 days)	\$0.00	\$0.00

4

5

Daily cap

You can control your costs by applying a cap to the amount of data that you collect per day. Note that there can be some latency when applying the daily cap, so stopping data ingestion precisely at the specified cap cannot be guaranteed. The collection of certain related data types by Azure Sentinel or Azure Security Center (such as the current pricing model) is not affected by this daily cap. Workspaces on which Azure Security Center was enabled before April 19, 2017, security data types are capped like other data types. Learn more ↗

ON OFF

⚠ Be sure to create an alert so you know if your workspace is capped. Learn more ↗

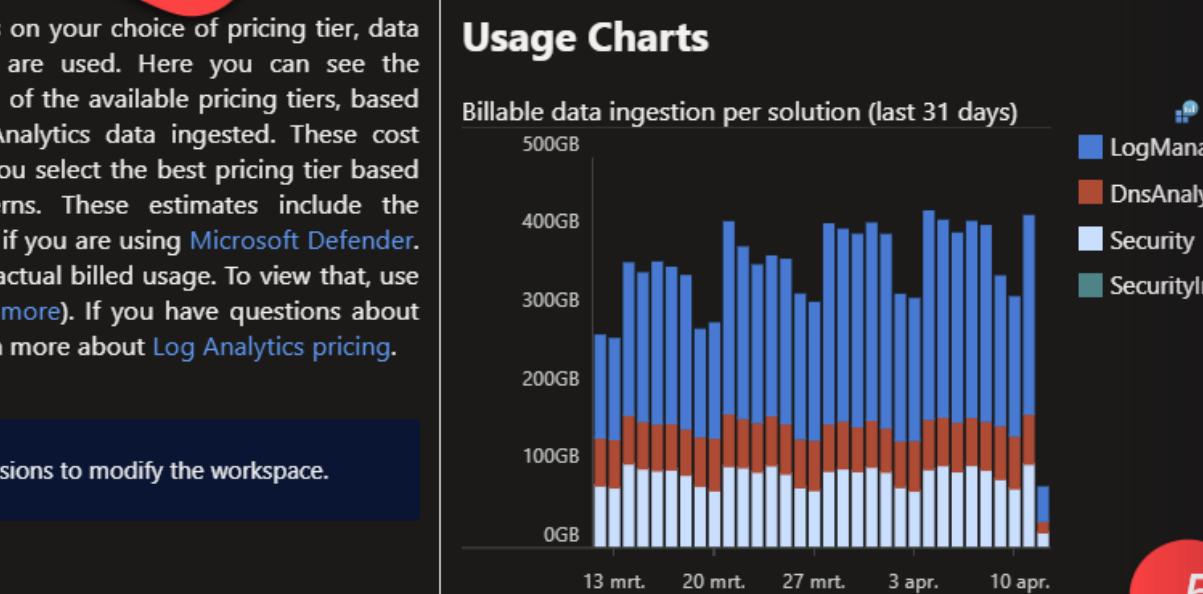
The daily volume cap is:

500 ✓

GB/day

Daily limit will be set at: 13:00 UTC

OK



Data ingested per solution (last 90 days)

Category	Usage
LogManagement	17,66 TB
Security	12,18 TB
DnsAnalytics	5,12 TB
SecurityInsights	10 MB

Tips for Microsoft Sentinel

Be as cost effective as possible

The screenshot shows three main windows illustrating cost management:

- sentinel-prd-weu-01 | Usage and estimated costs**: Shows a chart of billable data ingestion per solution over the last 31 days. A red callout labeled **3** points to the "Usage and estimated costs" link in the left sidebar.
- Daily cap**: A configuration dialog where a daily volume cap of 500 GB/day is set to start at 13:00 UTC. A red callout labeled **5** points to the "The daily volume cap is:" input field.
- Usage details**: A detailed view of estimated monthly costs for different pricing tiers (Pay-as-you-go, 100 GB/day, 200 GB/day, 300 GB/day) based on the last 31 days of Log Analytics data. A red callout labeled **4** points to the "Daily cap" button in the top navigation bar.

Usage Charts

Billable data ingestion per solution (last 31 days)

Date	LogManagement	DnsAnalytics	Security	SecurityInsights	Total
13 mrt.	~250GB	~100GB	~50GB	~10GB	~410GB
20 mrt.	~300GB	~100GB	~50GB	~10GB	~460GB
27 mrt.	~350GB	~100GB	~50GB	~10GB	~510GB
3 apr.	~400GB	~100GB	~50GB	~10GB	~560GB
10 apr.	~350GB	~100GB	~50GB	~10GB	~510GB

Data ingested per solution (last 90 days)

Category	Usage
LogManagement	17,66 TB
Security	12,18 TB
DnsAnalytics	5,12 TB
SecurityInsights	10 MB

Tips for Microsoft Sentinel

Be as cost effective as possible

The screenshot shows the 'Daily cap' configuration page. At the top, a dark overlay provides context about daily caps and includes a snippet of LogOperation PowerShell code.

Daily cap

You can control your costs by applying a cap to the amount of data that you collect per day. Note that there can be some latency in applying the daily cap, so stopping data ingestion p
specified cap cannot be guaranteed. The collection of related data types by Azure Sentinel or Azure Security Center (the current pricing model) is not affected by this daily cap. Workspaces on which Azure Security Center was enabled before July 19, 2017, security data types are capped like other data types.
more ↗

ON OFF

⚠️ Be sure to create an alert so you know if your workspace is capped. [Learn more](#)

The daily volume cap is:

500 ✓ GB/day

Daily limit will be set at: 13:00 UTC

```
1 LogOperation
2 where Operation =~ "Data collection stopped"
3 where Detail contains "OverQuota"
```

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Tips for Microsoft Sentinel

Be as cost effective as possible

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Tips for Microsoft Sentinel

Be as cost effective as possible

- Pricing tier
- Retention
 - Workspace (up to 2 years)
 - Table level
- Daily cap
- Log tier
 - Basic
 - Archive (up to 7 years)

Tips for Microsoft Sentinel

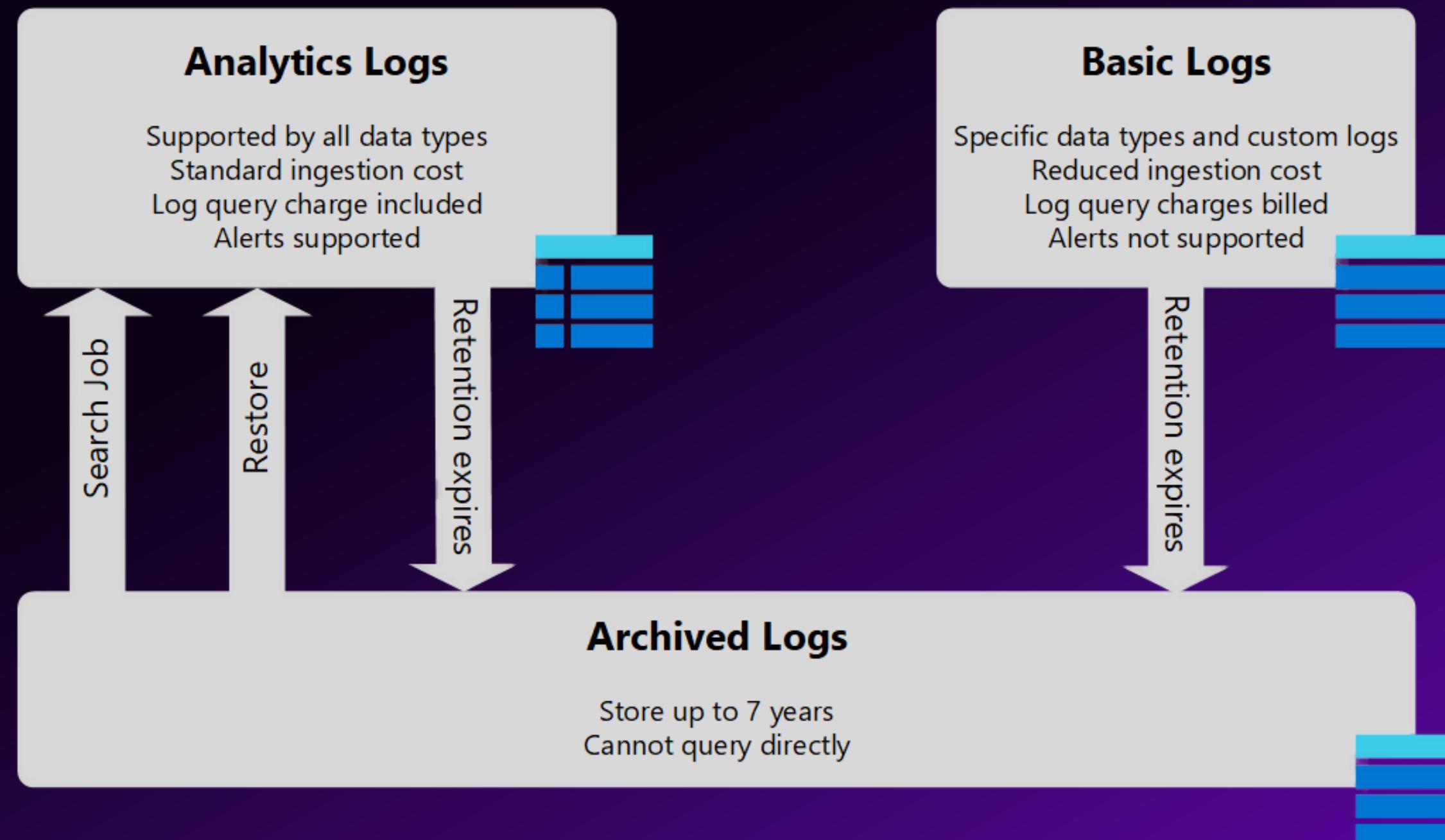
Be as cost effective as possible

- Basic Log tier
 - Logs that might be “chatty”
 - Too noisy for having a great detection value (i.e. Netflow logs)
 - Can be valuable for investigations or to store for compliance purposes
- + Reduced ingestion price
- + Can be archived the same way as ‘analytics’ logs
- Data retention of 8 days
- Reduced KQL functions
 - No `join()`, no `union()` and no aggregations (i.e. `summarize()`)
- Queries are charged separately

Tips for Microsoft Sentinel

Be as cost effective as possible

- Archive Log tier



Tips for Microsoft Sentinel

Be as cost effective as possible

- Archive Log tier
 - Search jobs
- + Parallel processing jobs in background
- + Results are published in a new table with _SRCH suffix
- + Will not impact workspace performance
- + Queries will not timeout
- Only one table at a time
- No KQL :’-(

Tips for Microsoft Sentinel

Be as cost effective as possible

- Archive Log tier
 - Restore jobs
- + No impact on workspace performance
- + Uses elastic compute in background for additional load
- + Restores to hot cache, new table with `_RST` suffix
- + Full KQL set of functions is supported
- It might become expensive when restoring large datasets
- Minimum of 2 TB is charged for smaller restores

Tips for Microsoft Sentinel

Be as cost effective as possible

Microsoft Sentinel | Search (Preview) ...

Selected workspace: 'redmondsentineldemoenvironment'

Search (Ctrl+ /) Refresh Restore Guides & Feedback

General

- Overview
- Logs
- News & guides
- Search (Preview)

Threat management

- Incidents
- Workbooks
- Hunting
- Notebooks
- Entity behavior
- Threat intelligence

Content management

- Content hub (Preview)
- Repositories (Preview)
- Community

Search by table name ... Time range : Custom Status : All

AzureNetworkAnalytics_CL_84132...

This table was created using a Search Job with the following query: 'AzureNetworkAnalytics_CL | where * has 'victimpc''.
Search Started 1/7/2022, 6:20:19 PM Results 0
In progress

SecurityEvent_1557054_SRCH

This table was created using a Search Job with the following query: 'SecurityEvent | where * has 'victimpc''.
Search Started 1/10/2022, 8:19:17 AM Results 0
In progress

SecurityAlert_109952_SRCH

This table was created using a Search Job with the following query: 'SecurityAlert | where * has 'victimpc''.
Search Started 1/7/2022, 4:01:54 PM Results 0
Search completed
Restore data to investigate
View results >

SecurityAlert_55638_SRCH

This table was created using a Search Job with the following query: 'SecurityAlert | where * has 'log4j''.
Search Started 1/10/2022, 8:19:17 AM Results 0
In progress

SecurityEvent_9835467_SRCH

This table was created using a Search Job with the following query: 'SecurityEvent | where * has 'log4j''.
Search Started 1/10/2022, 8:19:17 AM Results 0
In progress

AzureNetworkAnalytics_CL_4249...

This table was created using a Search Job with the following query: 'AzureNetworkAnalytics_CL | where * has 'victimpc''.
Search Started 1/10/2022, 8:19:17 AM Results 0
In progress

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Tips for Microsoft Sentinel

Be as cost effective as possible



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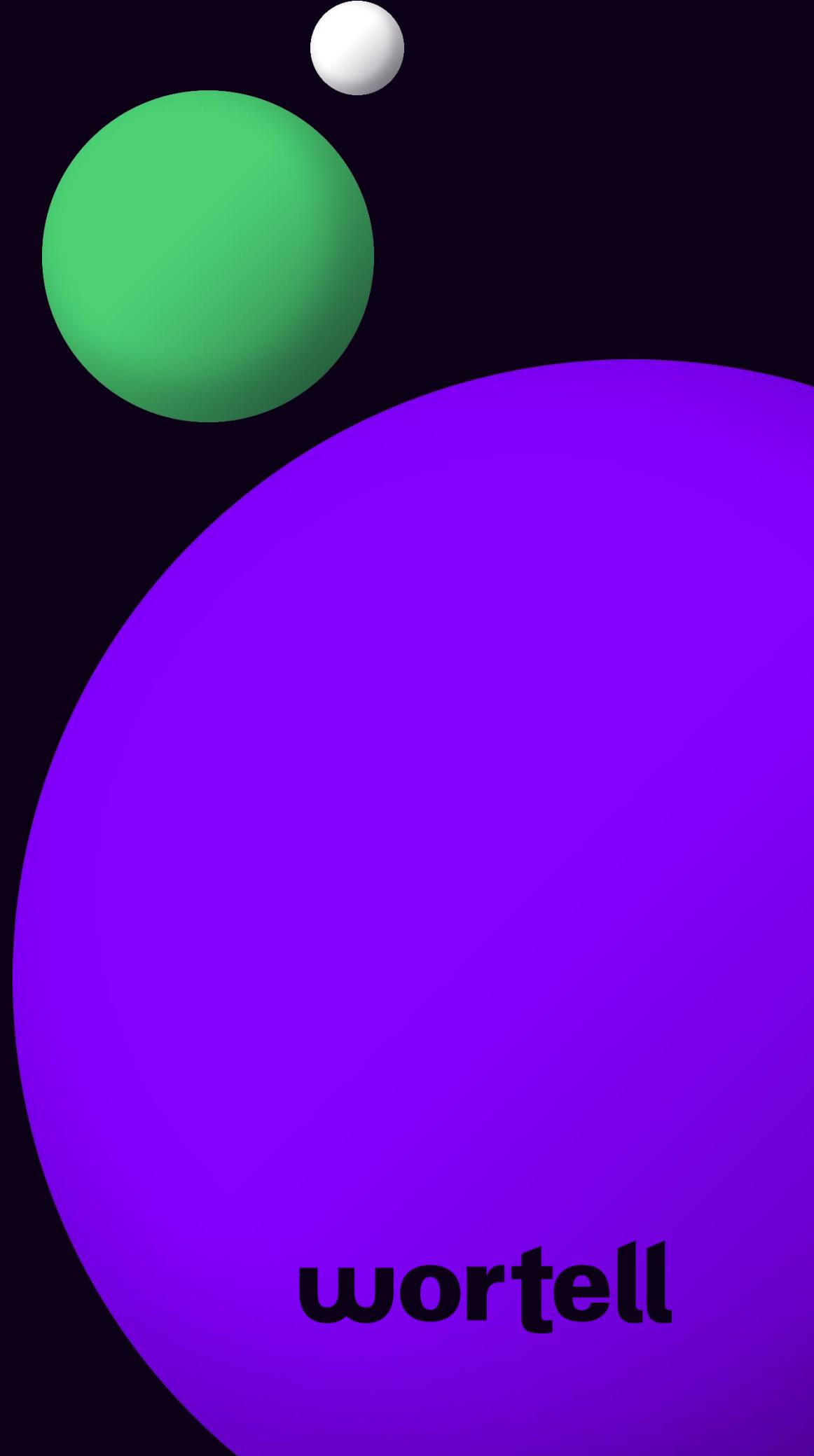
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**Are
there
any
questions? _**

The logo for Wortell features a dark blue circular shape containing a white stylized lowercase 'i'. Above the 'i' is a smaller white dot. To the right of the circle, the word 'wortell' is written in a lowercase, sans-serif font.

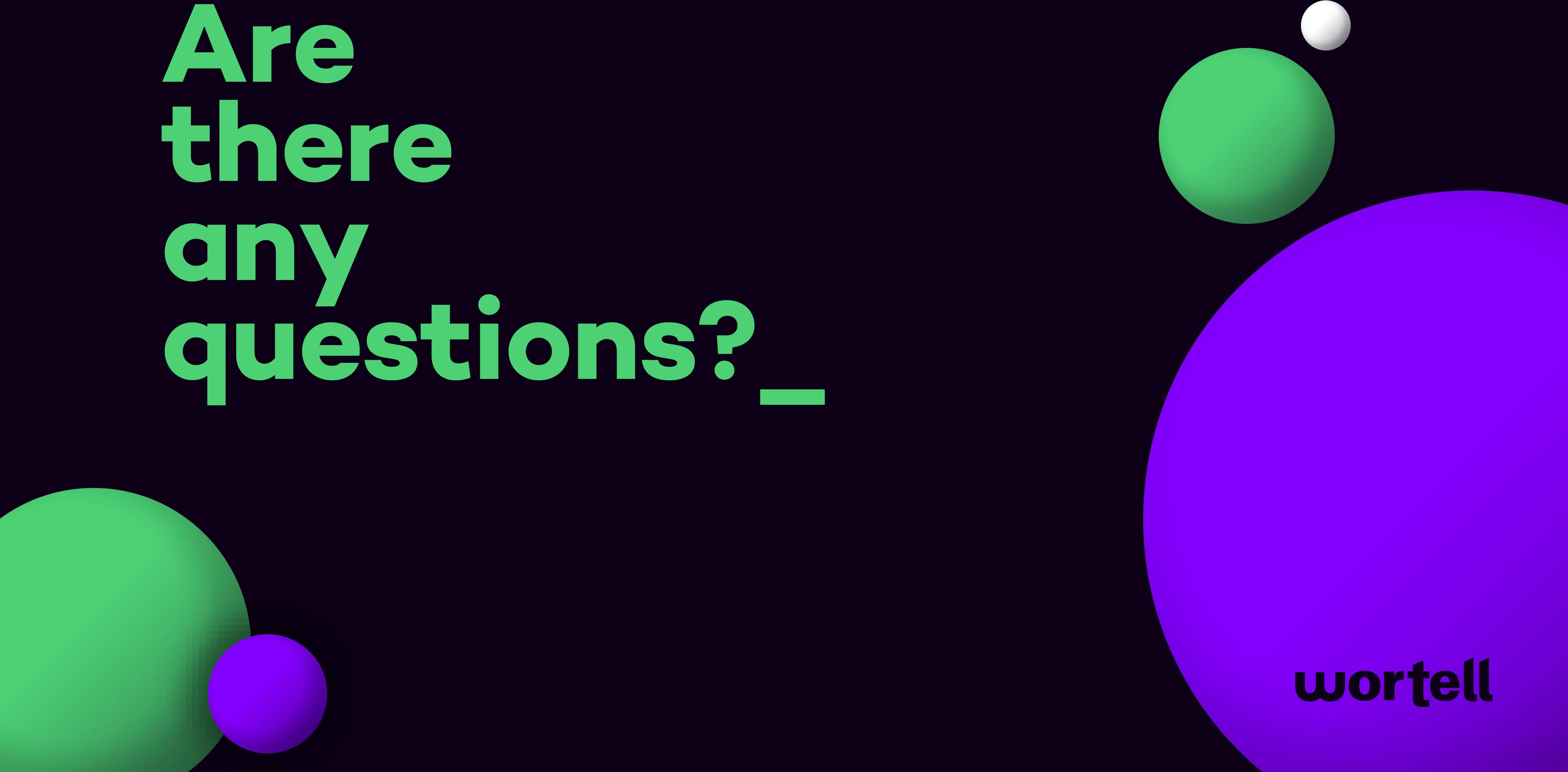
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**Are
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The logo for Wortell features a dark blue circular background. On the left side, there are three overlapping circles: a large light blue circle at the bottom, a smaller white circle above it, and a medium-sized light blue circle to the right of the white one. On the right side, there is a large white circle. The word "wortell" is written in a lowercase, sans-serif font, positioned at the bottom right of the circle.

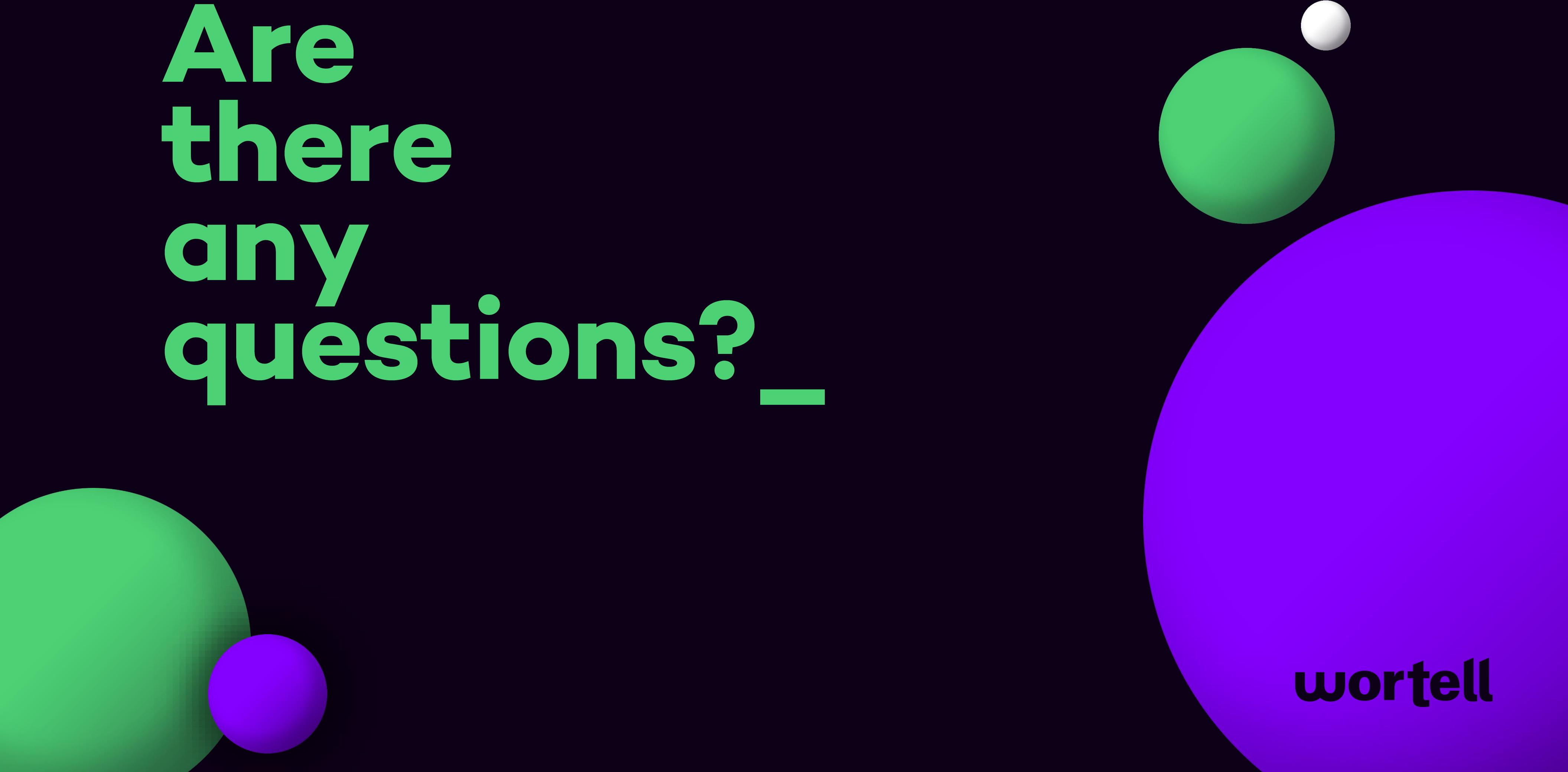
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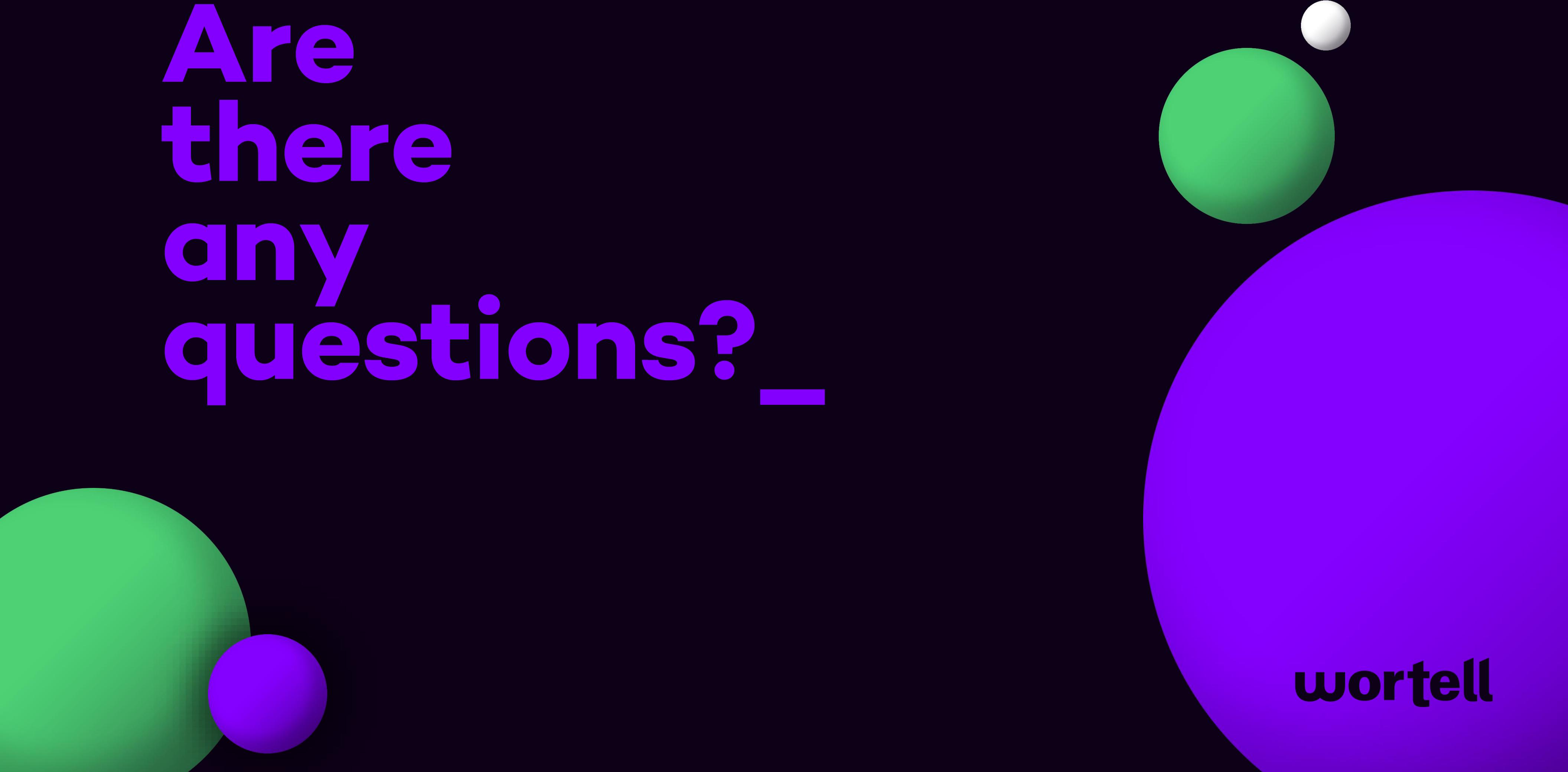
wortell

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The logo for Wortell features a dark blue circular background. On the left side, there are three overlapping circles: a large light blue circle at the bottom, a smaller white circle above it, and a medium-sized light blue circle to the right of the white one. On the right side, there is a large white circle. The word "wortell" is written in a lowercase, sans-serif font, positioned at the bottom right of the circle.

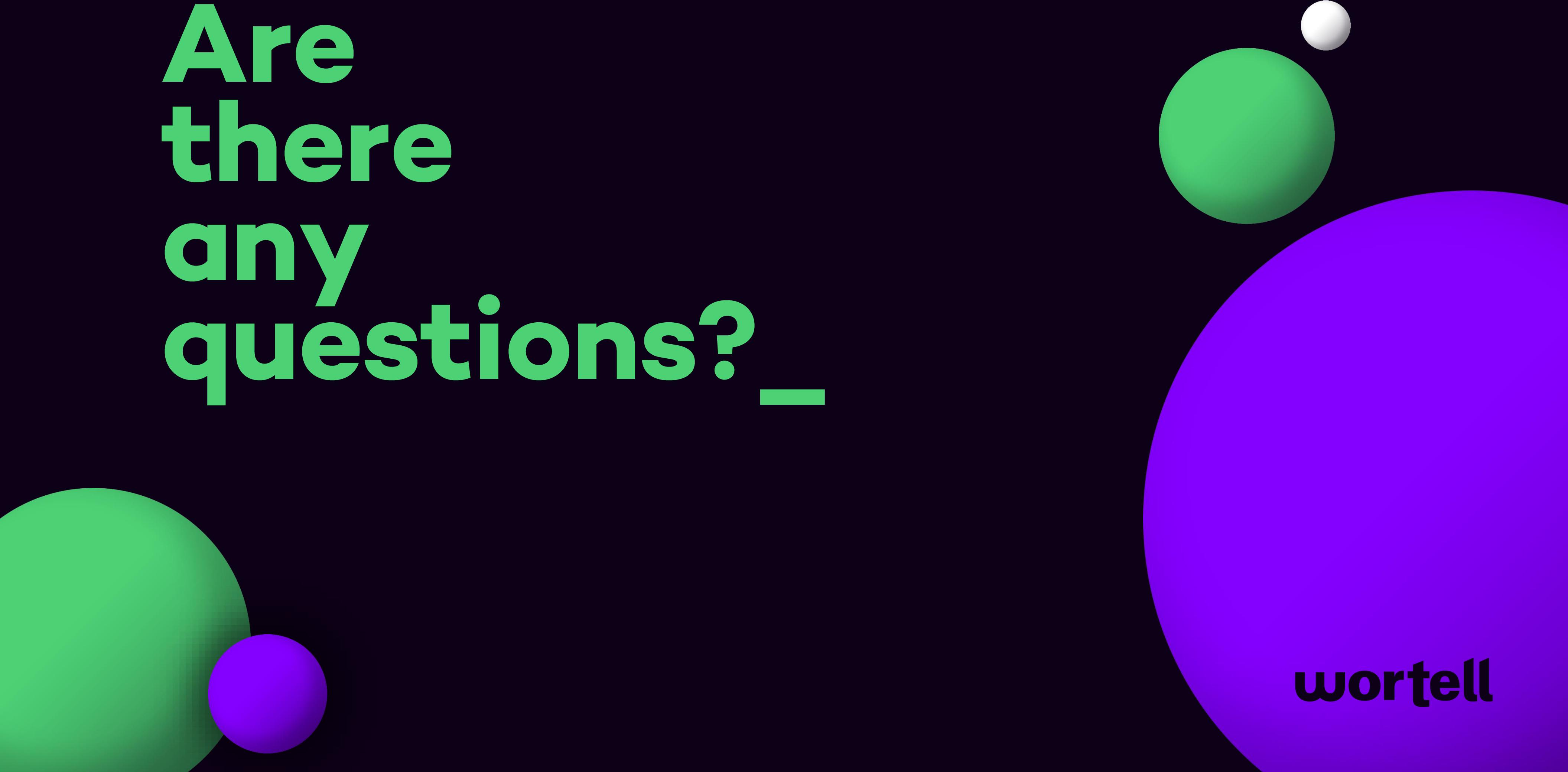
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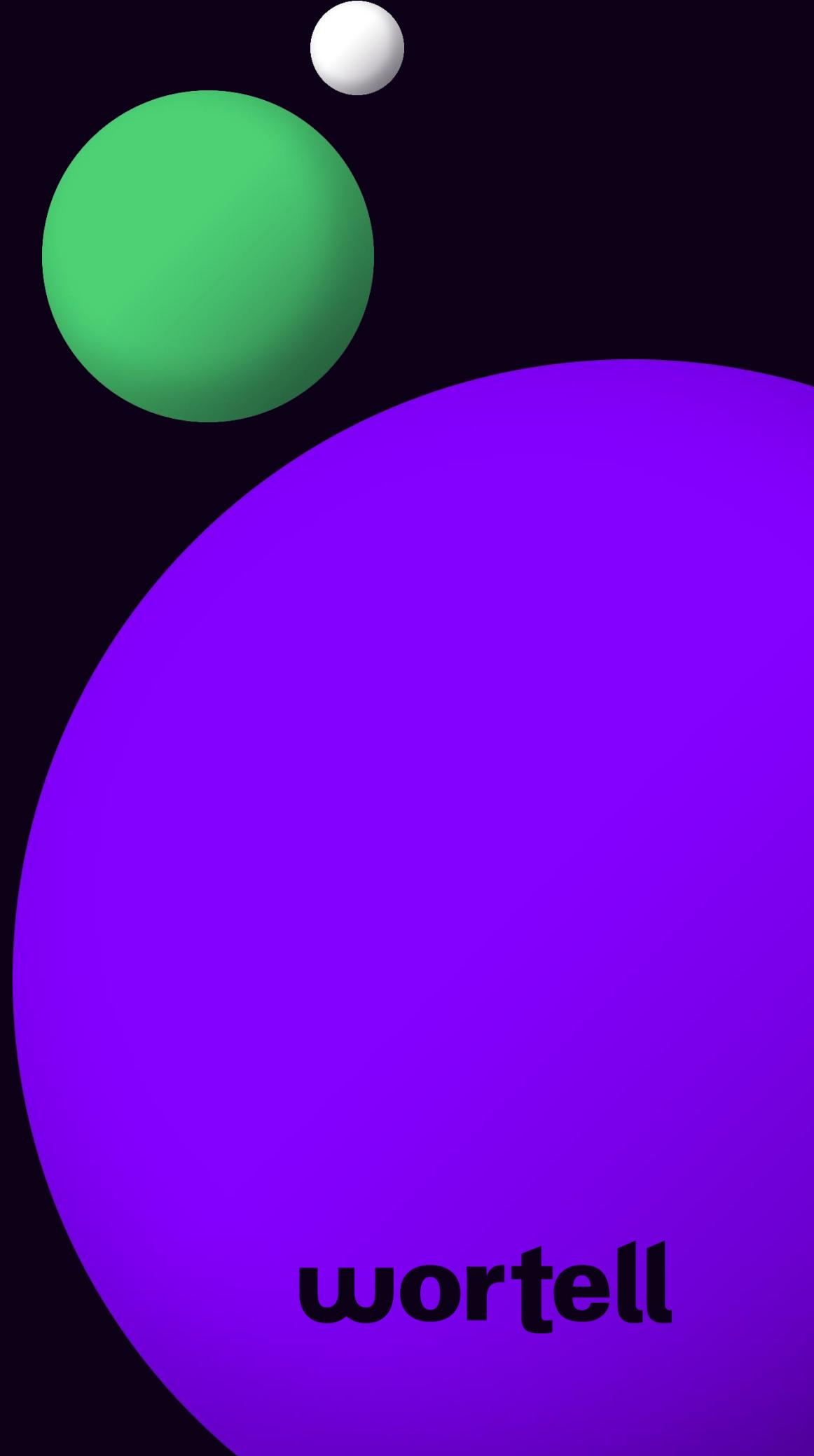
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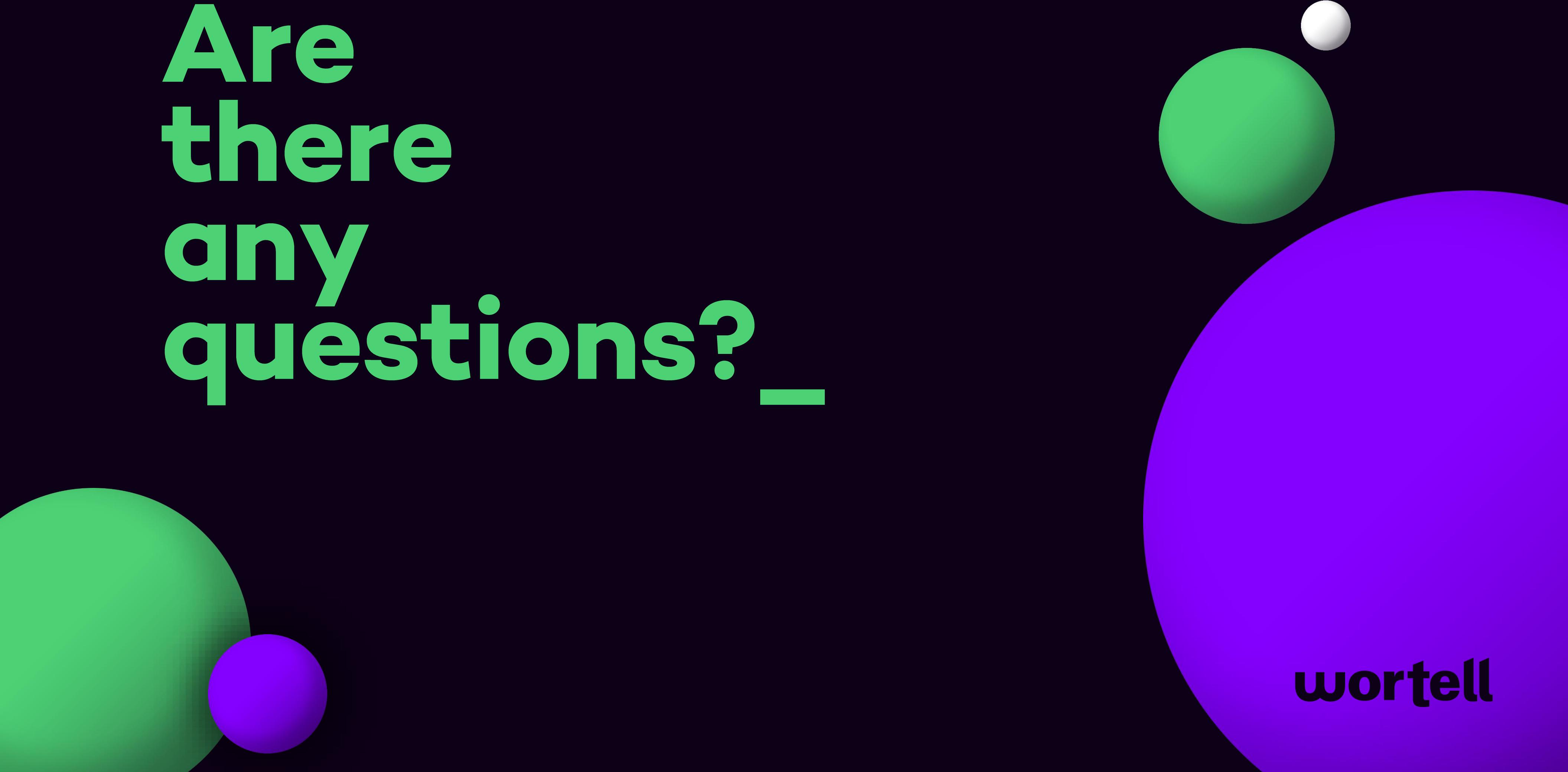
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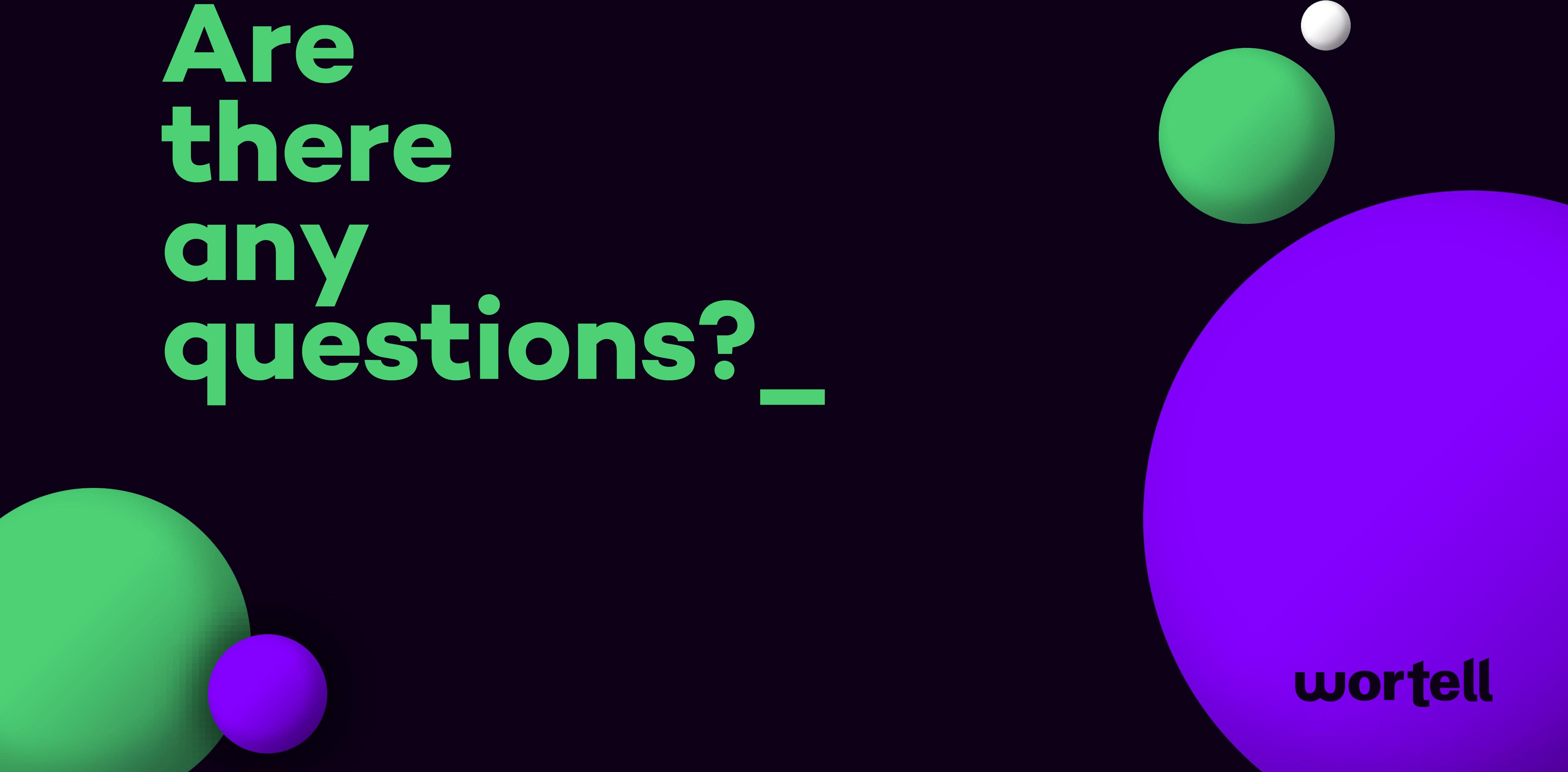
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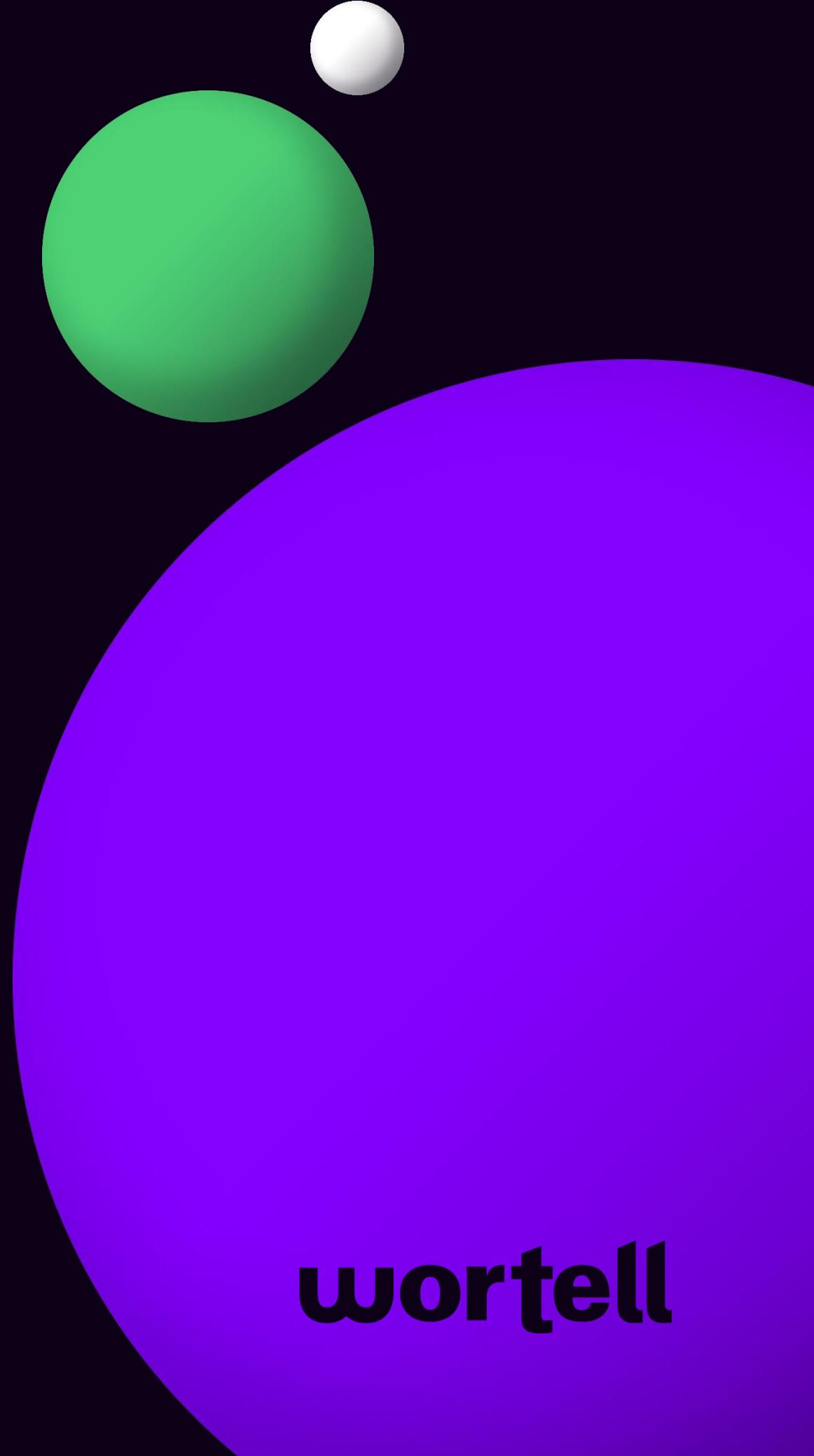
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The logo consists of three overlapping circles: a large green circle at the top, a medium purple circle below it, and a small purple circle at the bottom left. The word "wortell" is written in a black, lowercase, sans-serif font to the right of the circles.

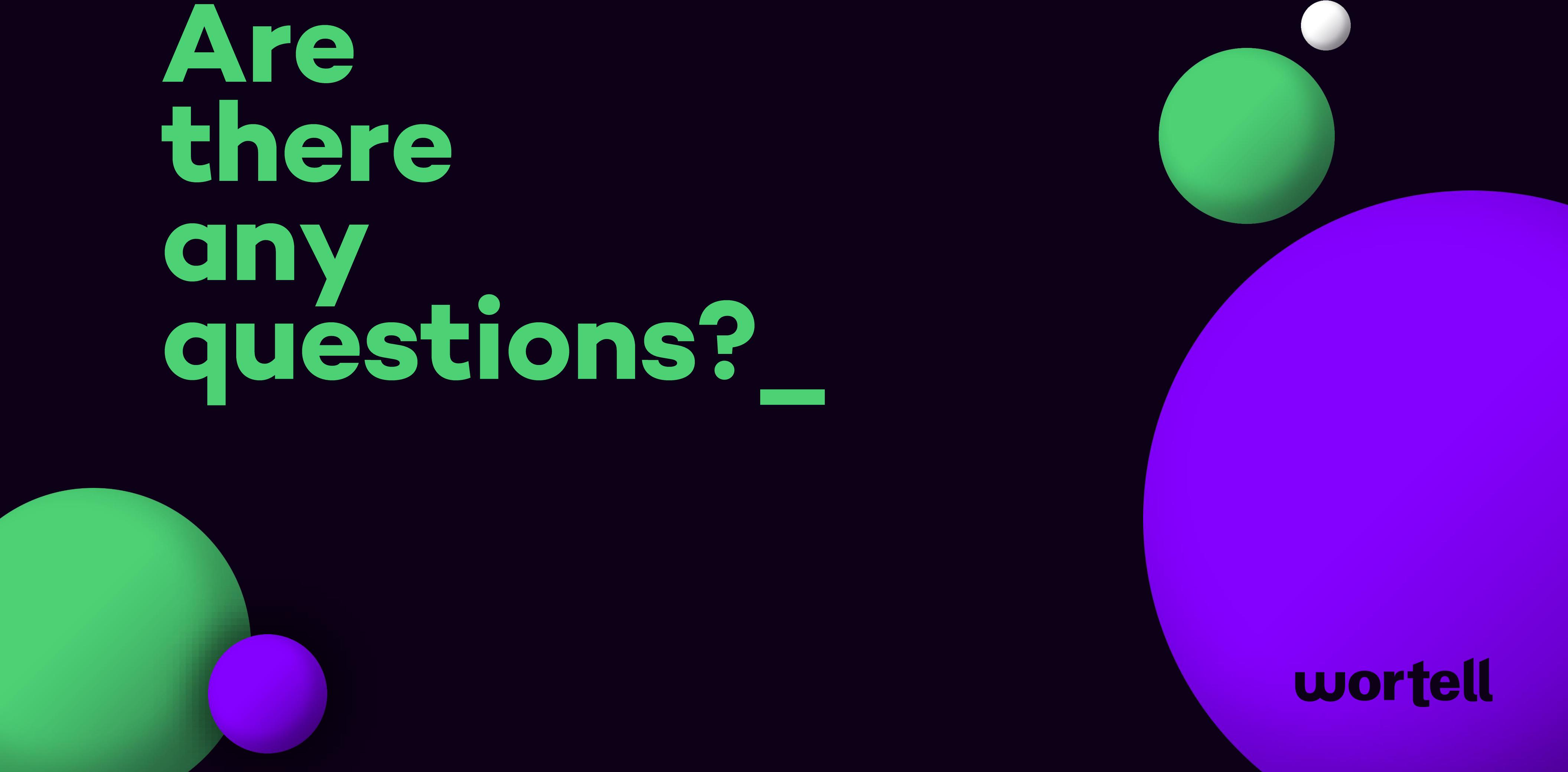
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