



Enabling continuous risk visibility: The role for OSCAL in revolutionizing third party security

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Agenda

The opportunity 3

Open Security Controls Assessment Language 6

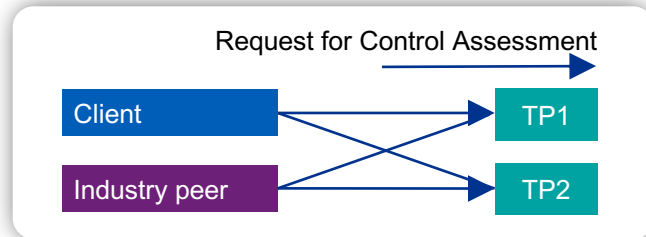
Case study & model demonstration 7

Journey and next steps 12



The changing third party security landscape

Individual assessment



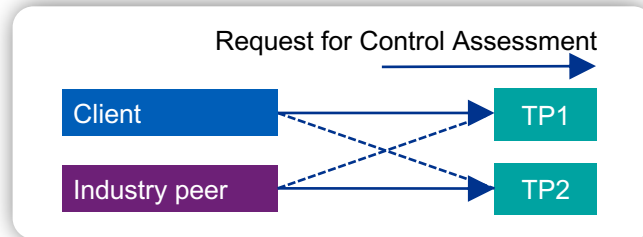
Benefits

- Assessment control questionnaire can be **tailored** to reflect the organization's policies and risk appetite.

Challenges

- Significant **level of effort** and costs associated in the review of third parties.
- High **latency** as reviews only performed on a 1–3 year cycle.
- Visibility of risk is **asymmetric** with outsourced risk.
- Lack of **standardization**.
- Assessment focuses on at the third party **enterprise level** – not solution that is consumed

Shared assessment model



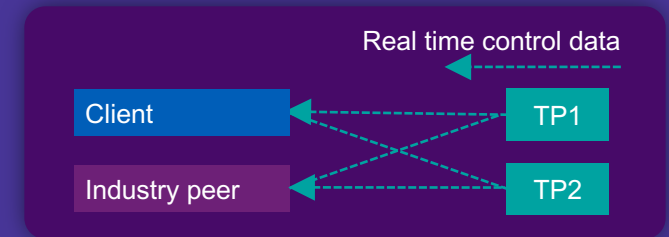
Benefits

- Efforts and costs **shared** amongst industry peers.

Challenges

- Doesn't enable **divergent risk appetites**.
- **Latency** remains a problem despite reduced cost burden.
- Visibility of risk remains **asymmetric** with outsourced risk.
- Assessment continues to focus on at the third party **enterprise level** – not solution that is consumed
- Limited agreement across industry peers on **shared burden**, costs, number of third parties etc.
- May still require **further client reviews** given the organization's appetite and standards not addressed in shared assessments

Future state



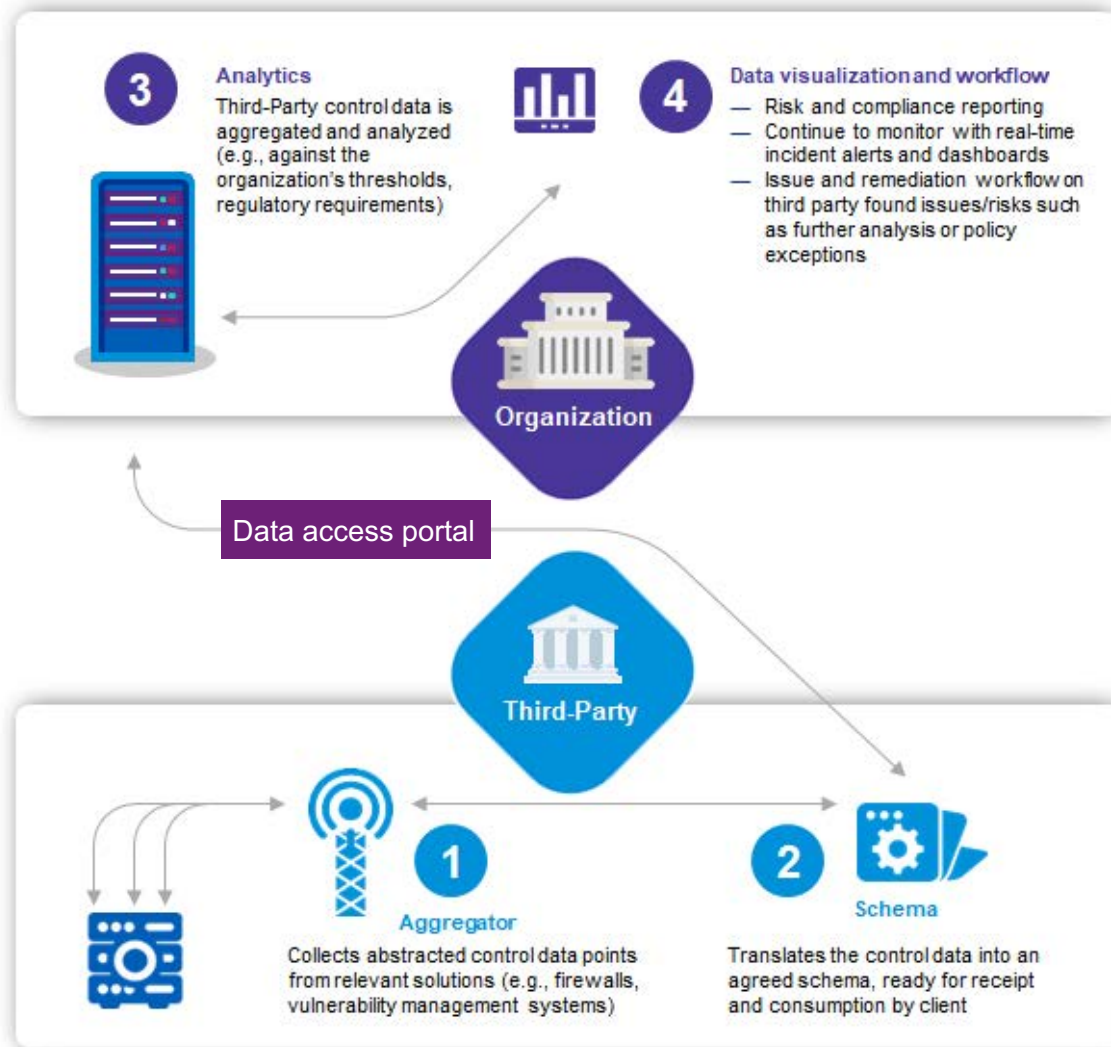
Benefits

- Information gathered can be **tailored** to the client's risk appetite.
- Continuous data feed **discourages risk acceptance**.
- Better **visibility** of risks into third party environment (operations, system health, security) and management of issues as they arise
- Refocus on monitoring controls **specific to the solution** provided to the organization

Challenges

- Significant **upfront cost** (e.g. architectural set up, schema definition)
- **Industry standard** for this model is still in infancy
- Industry change will require a **mindset shift** for third parties to conform, allow for integration and freely share their data

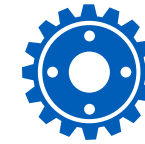
The next generation of third party security



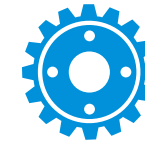
Key features



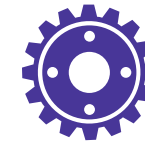
Facilitates the scalable sharing of control information from third parties to clients



Agentless in both third party and client environments



Enables clients to analyze the exposed risk when transacting with any given third-party



Supports risk visualization, reporting, and issue remediation tracking

How is 3PS-CAM a game changer?

Client benefits

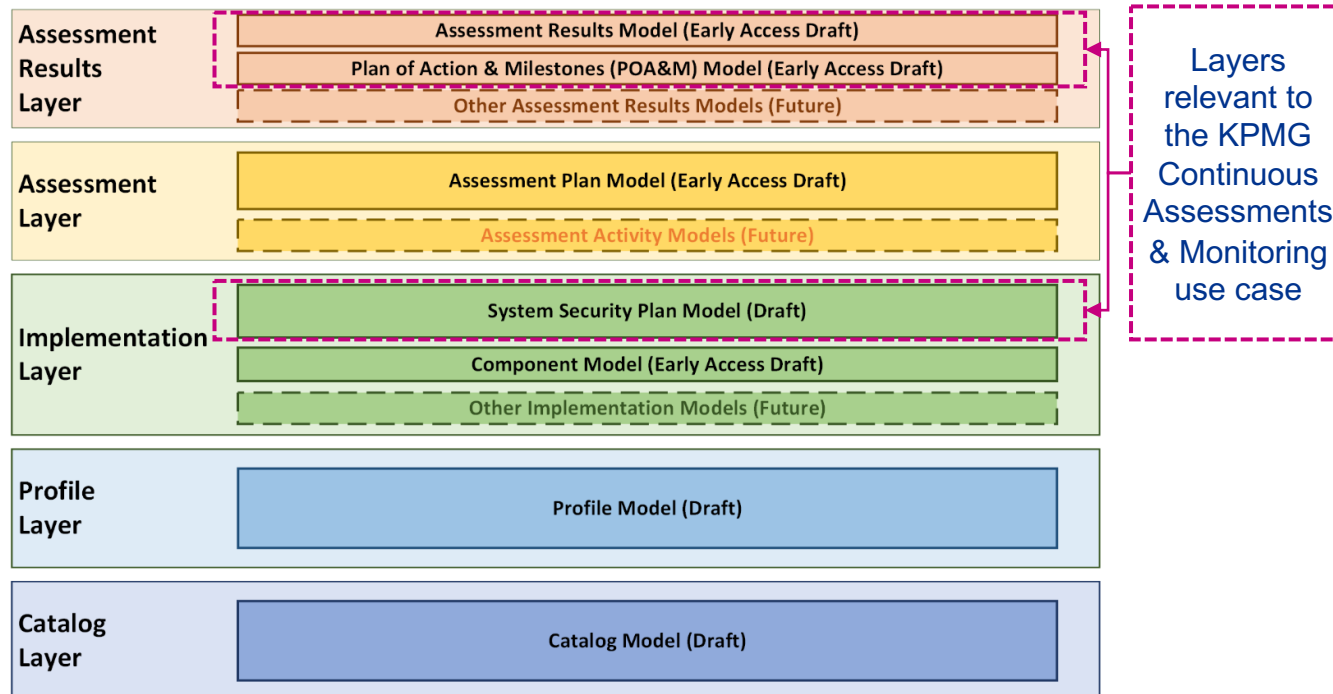
- Near real-time view on the security risks associated with any given third party
- Ability to track remediation of noncompliant SLAs/SLOs to completion
- Analyze trend data and predict/prevent SLA/SLO noncompliance
- Accelerate agility of the third party security capability

Third party benefits

- Eliminate incremental assessment costs (test once report many)
- Better visibility into your internal systems that manage client environments
- Deeper network integration into client environments
- Quicker and more tailored responses to issues as they arise

OSCAL in Continuous Assessments and Monitoring

Layers are we focused on



Attributes benefiting CAM

- ✓ Enables the automated assessment of control implementations across multiple components
- ✓ Is interoperable and simultaneously supports multiple regulatory frameworks
- ✓ Enables monitoring of fourth party risk via the 'inheritance' concept

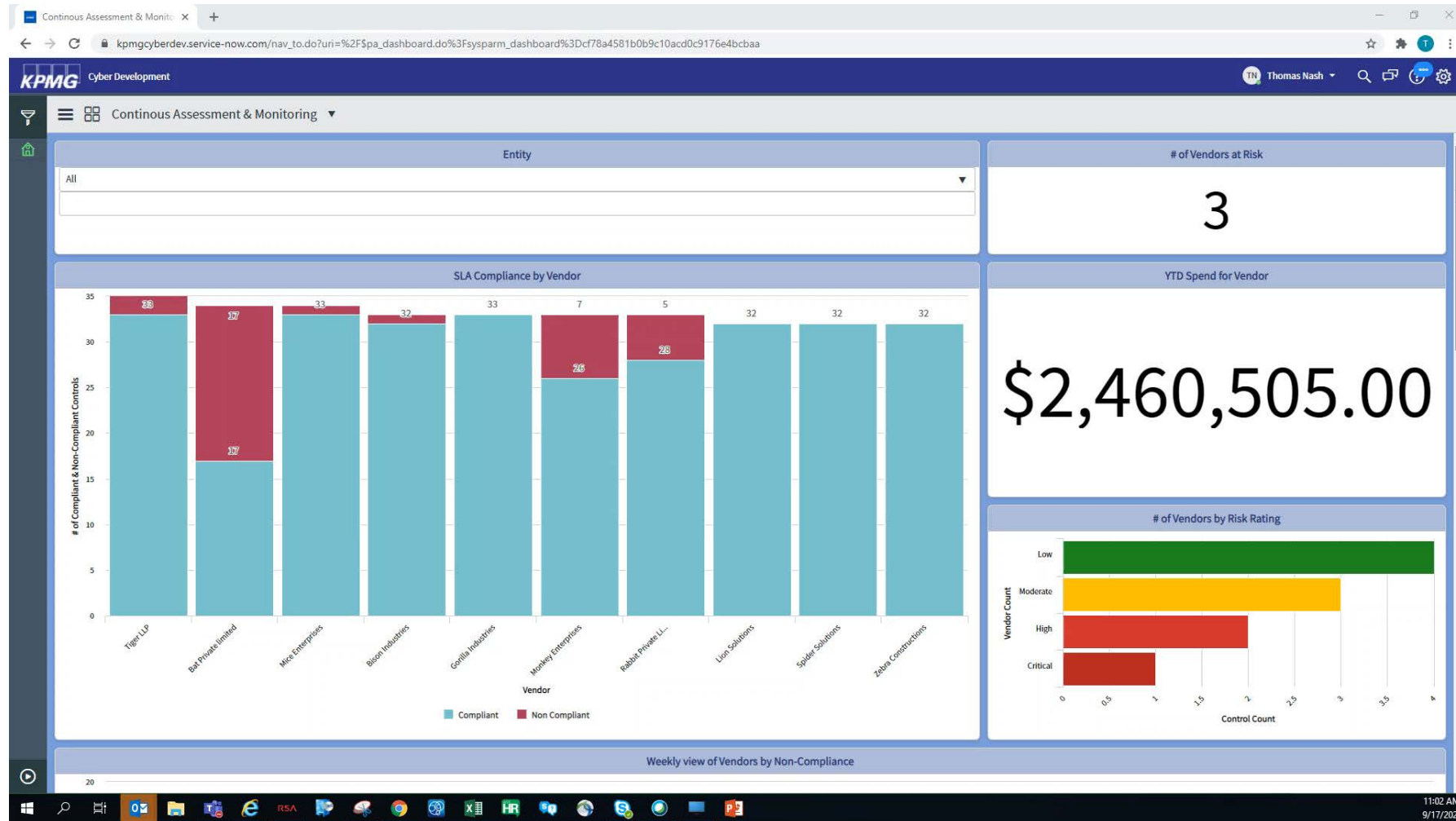
Top 10 Bank and Commercial Lending Platform

KPMG has delivered a proof of concept to demonstrate the effectiveness of this model at a Top 10 Bank (customer) and a Commercial Lending Platform (vendor).

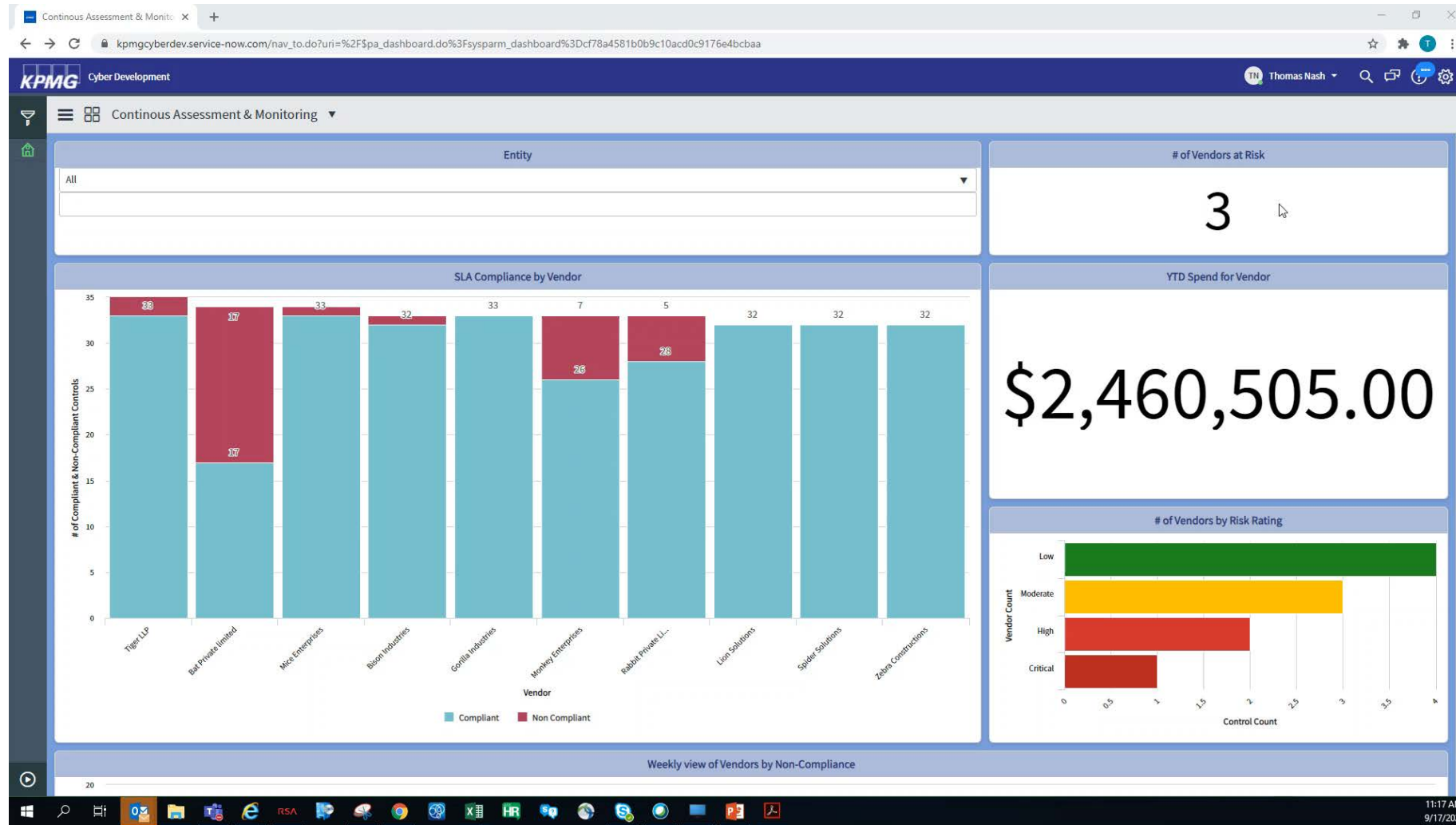
Project outcomes

- ✓ Collected near real-time technical control data from a third party; continuously.
- ✓ Standardized control data of a third party through an OSCAL format.
- ✓ Tested for vendor compliance to contractual SLAs.
- ✓ Gained insights into vendor's risk posture through continuous controls monitoring.
- ✓ Automatically generated issues and response workflows.
- ✓ Integrated risk view into Client's existing continuous controls monitoring capability.

Analytics demo 1



Analytics demo 2



Illustrative controls for Continuous Assessments and Monitoring

Security Domain	Query	NIST 800-53 Reference	Metric Generated	Source
Data Loss Prevention	Do systems/applications which host/transmit Customer data have a DLP solution?	SC-7.10	% systems/applications which host/transmit data without DLP solution	Configuration manager DLP system
Vulnerability Management	Are critical vulnerabilities on internet facing servers and applications patched within 7 days of the patch becoming available?	RA-5.d	# patches not installed within 7 days	Vulnerability scan Patch management system
Encryption	Is all Customer data encrypted in transit and at rest, including laptops, datastores and backups?	SC8.1	# systems/applications which host/transmit Customer data and which do not support encryption	Encryption system Configuration manager

How does this model fit into the 3PS ecosystem

Individual assessments

- **Focus:** Bespoke policy/process assessments.
- **Illustrative question:** How do you manage SSL server certificate errors?

Shared Assessments

- **Focus:** Standardized policy/process assessments
- **Illustrative question:** Do you have a policy covering system configuration?



Continuous Assessments & Monitoring

- **Focus:** technical security controls
- **Illustrative question:** Are internet facing systems/application scanned for misconfigurations?

Where are we on the journey?

We have completed a proof of concept with a top 10 bank (customer) and commercial lending platform (vendor)

We are developing pipeline capabilities to enable automated OSCAL reporting

We anticipate completing solution pilots within the next 3-6 months, post which this model will be ready for scale



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