Oracle Java Licensing Highlights Why Security is Integral to ITAM

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Oracle's Big Change To Java Licensing

- Oracle Java (JDK & JRE) has historically been **free to use** in most cases.
- Some **"commercial features"** have always required a license.
- As of April 16th, 2019 releases of Java 7, 8, & 11 require a **Java SE subscription.**

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Oracle's Big Change To Java Licensing

	Monthly Subscription Price	Subscription Metric	Volume
Java SE Platform Products			
Java SE Desktop Subscription	2.5000	Named User Plus	1-999
	2.0000	Named User Plus	1,000-2,999
	1.7500	Named User Plus	3,000-9,999
	1.5000	Named User Plus	10,000-19,999
	1.2500	Named User Plus	20,000-49,999
		Contact for Details	50,000+
Java SE Subscription	25.0000	Processor	1-99
	23.7500	Processor	100-249
	22.5000	Processor	250-499
	20.0000	Processor	500-999
	17.5000	Processor	1,000-2,999
	15.0000	Processor	3,000-9,999
	12.5000	Processor	10,000-19,999
		Contact for Details	20,000+

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The Impact of Oracle's Change to Java

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- Organizations were left unprepared to manage and budget for costly Java subscriptions.
  - Oracle Sales *was* prepared to begin charging customers.

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- Many customers purchased subscriptions to avoid other penalties by Oracle, such as an audit.

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What Options Do Java Users Have?

1
Stay on versions of Java which pre-date April 16th, 2019.

2
Remove or replace Oracle Java from their environments.

3
Purchase a Java subscription.

...or else...

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LET'S TALK!

Anglepoint

1. Stay on versions of Java which pre-date April 16th, 2019.

2. Remove or replace Oracle Java from their environments.

3. Purchase a Java subscription.

What are some of the risks associated with each of these options?

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Organizations are often concerned with IT savings opportunities alone without consideration to cyber security risks.

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Some organizations have yet to experience the advantages of ITAM practices and are hyper-focused on risk prevention.

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Java is Just a Single Use Case

According to the latest data breach report by IBM and the Ponemon Institute.

- Average cost of a data breach in 2021 is USD 4.24 million, the highest in 17 years.

- Remote work due to COVID-19 increased costs USD 1.07 million in cases where remote work was a factor that led to a data breach.

- The largest contributing factor to data breach costs was lost business (estimated 38% of cost).

- Data Breaches in Hybrid Cloud Environments Cost $1.19 Million Less than Public, Private, and On-Premise Cloud Models

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Java is Just a Single Use Case

Log4J

"The Apache Log4j Remote Code Execution Vulnerability is the biggest and most critical vulnerability of the last decade…If all investigations are completed, we could actually determine that it is the largest single vulnerability in the history of modern computing."

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Security and ITAM are not competitive.
Security is integral to ITAM.
ITAM is integral to Security.

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How should ITAM and Security work together?

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#1: Governance

ITAM and Security teams should work together to create policies and write procedures for how IT assets are used.

ITAM teams have the data to understand what hardware and software exists within an enterprise. They should also know how and why it is being used.

Security teams should not create policies in a vacuum without understanding the needs of IT consumers on their network.

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#2: Reduce Attack Surface

An **attack surface** is the total number of all possible entry points for unauthorized access into any system. It includes all vulnerabilities and endpoints that can be exploited to carry out a security attack.

Less Inventory = Smaller Attack Surface

"In battle, there are not more than two methods of attack—the direct and the indirect; yet these two in combination give rise to an endless series of maneuvers...In all fighting, the direct method may be used for joining battle, *but indirect methods will be needed in order to secure victory*."

-Sun Tzu, Art of War

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#3: Audit-Readiness

IT Security teams are constantly preparing for, or are actively engaged in, audits.

| ISO 27001 | PCI DSS | HIPAA | NIST | GDPR | + |

ITAM teams are also constantly preparing for, or are actively engaged in, audits.

| IBM | Oracle | SAP | Microsoft | Quest | + |

Maybe...they should work together...

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