SAM Monthly Best Practices Webinars

Session 1: FNMS 2021R1 & Oracle Optimization reports

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Agenda

- Introduction to the SAM Best Practices Monthly webinars
- FNMS 2021 R1 in details
- Deep dive on Oracle optimization reports

SAM Best Practices Webinars

Logistics

- Monthly (last Thursday of the month, 10:00 AM Central time)
- Register <u>here</u>
- Vote <u>here</u> for prioritizing topics
- Find next session announcement, links to recording and used PowerPoints in the <u>Community Hub</u> (<u>Events and Webinars section</u>)

Goal and Approach

- News will be shared (10-15 minutes)
- A deep dive will be delivered by a SAM expert, with hands-on demos and real data
- Session will be recorded
- Answers will be captured and answered... potentially offline if time does not permit
- Session will be organized / presented by Nicolas Rousseau, Senior Product Manager, 20 years in SAM,
 8 years in Flexera Services

News: FNMS 2021 R1, released this week!

- Delivery: Both on Premised and SaaS
- Highlights
 - List below covers additions since 2020R2... SaaS customers got incremental updates
 - Oracle
 - Optimization reports
 - Amazon Oracle RDS inventory Collection
 - Oracle Fusion Middleware data collection is Oracle verified. Flexera was the first Fusion Middleware verified Publisher! This leads to WebCenter and WebLogic editions recognition. Enhanced Oracle rules (for better management of Cloud consumption calculations (number of vCPU per socket...)
 - Microsoft
 - Microsoft Hybrid Use Supported, including product specific point rules
 - "Client Secret" support for Office 365 Connector (no more token!)
 - IBM
 - IBM on Kubernetes License consumption report from IBM License Service Consumption
 - Enhancement of the agent's data collection
 - <u>Inventory of Kubernetes containers</u>
 - Collection of Unix Java versions, down to build level and linked to installation path
 - Enhanced recognition for Toad
 - <u>Enhancement of Purchase processing</u> (all needed columns added, etc.)
- Find all details on all releases
 - Flexera Feature By Release Portal



Oracle Optimization Reports

Business Need

- Oracle is useful... and broadly used by all large companies
- Oracle is expensive (official Public price for Oracle Enteprise Edition: USD 47K
- Oracle has complex rules
 - To reflect technology evolutions (vMotion: VMs move across Hosts (in clusters), Clusters or vCenters now) => Nice "soft partitioning" rules.
 - Check out this post on that never ending licensing to technology adaptation
- Official rule implementation has variations
 - Variations may come from contractual negotiations, commitments that affinity rules are used...
 - Most applied is: "Cluster level Soft Partitioning" (vCenter 5.0 rule), official id now "All vCenters" (vCenter 6.0+)
- Soft Partitioning represent an incredible cost and risk
 - Advanced Compression activated in one 2 core VM in a 500 cores cluster triggers a cost of: $500*0.5*11,500=USD\ 2,87\ millions!$



Oracle Optimization Reports

Details

- Oracle License Optimization on Clusters (Released in 2021 R1)
 - Full Documentation (can be ran from the report)
 - Analyzes, cluster per cluster, the number of VMs consuming the Oracle Processor licenses
 - Calculates the potential or realized optimization value (licensed vs. installed cores)
 - Gives more details on which VMs are consuming (and should be moved in case of waste)
- Oracle Licenses Consumption Details and Optimizations (Released in 2021 R1)
 - Full documentation
 - Shows in a tree view (sort on the "Path" column to re-establish hierarchy)
 - The vCenter, Cluster, Hosts, VMs, Computers involved in Oracle license consumption
 - Provides the details (consuming applications and instances, cost center, corporate unit...)
 - Computes license costs, charge back value (Cluster consumption rolled down to installed VMs)
 - Provides information on possible optimization and recommendations (VM installed cores vs. host licensed cores, potential saving or realized optimization.

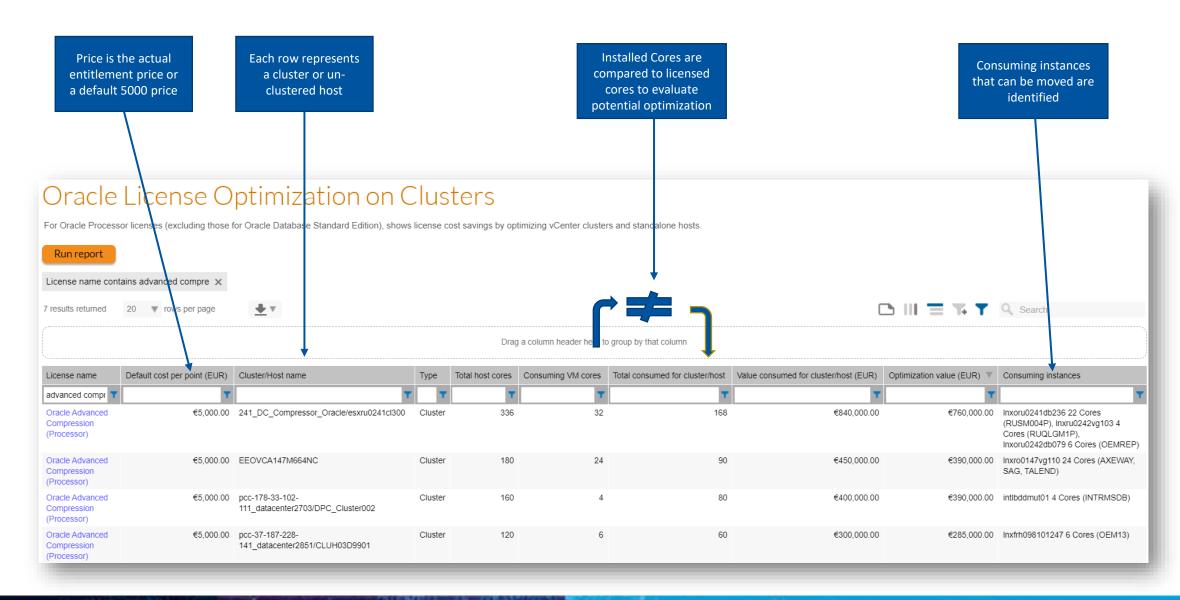
Oracle Optimization Reports

Details

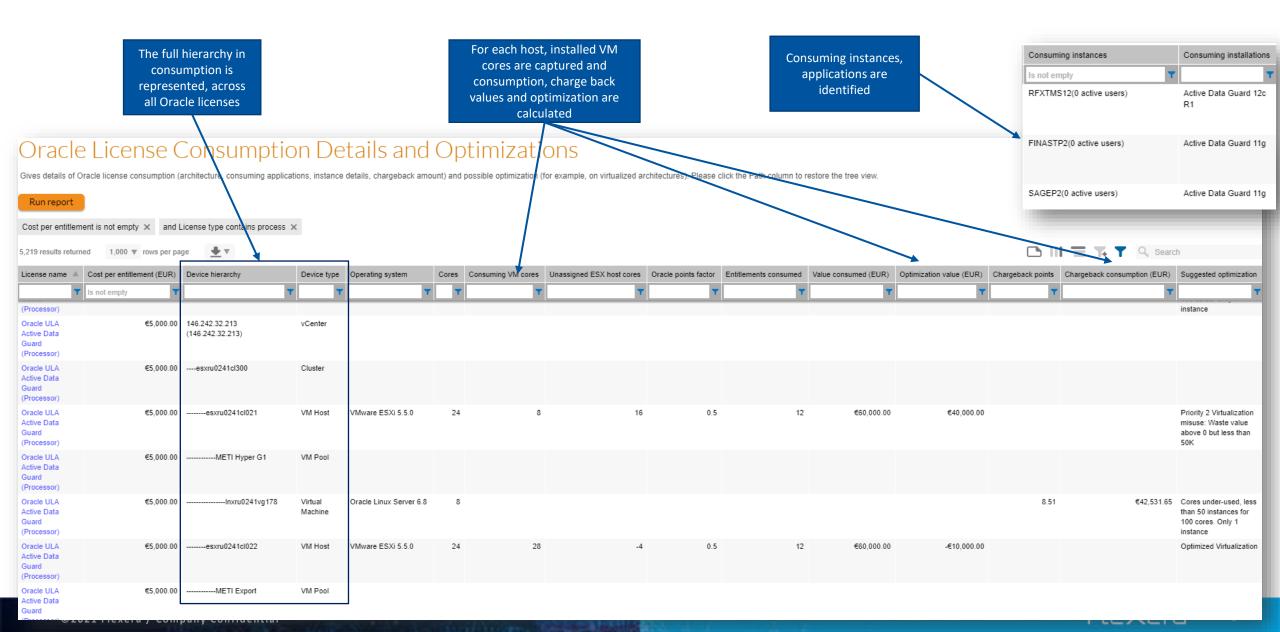
- Oracle License Consumption Summary At All Levels (September)
 - Comparison for Oracle Processor licenses consumption for the various soft partitioning levels
 - Cluster Level (default in FNMS)
 - vCenter level, and additional cost versus cluster level
 - "All vCenters" level and additional cost versus vCenter level
 - ESX Host Hard Partitioning and saving vs. cluster level soft partitioning
- Oracle License Consumption Details At All Partitioning Levels (September)
 - Also perform "what if?" analysis on soft partitioning levels
 - Shows all the details on the installed and consuming devices (tree view)
 - Provides no optimization nor charge back calculations
 - For each ESX server provides consumption if soft partitioning was applied at Cluster, vCenter, "All vCenters" level
- Oracle Options Virtualization Target Architecture (September)
 - Analysis Oracle Options consumption on VMWare clustered VMs and provides the optimal architecture
 - VMs are regrouped by consistent installed and used options
 - Possibility to define the grouping level based on location level
 - Typically, a large IT organization cannot regroup VMs across data centers and domains

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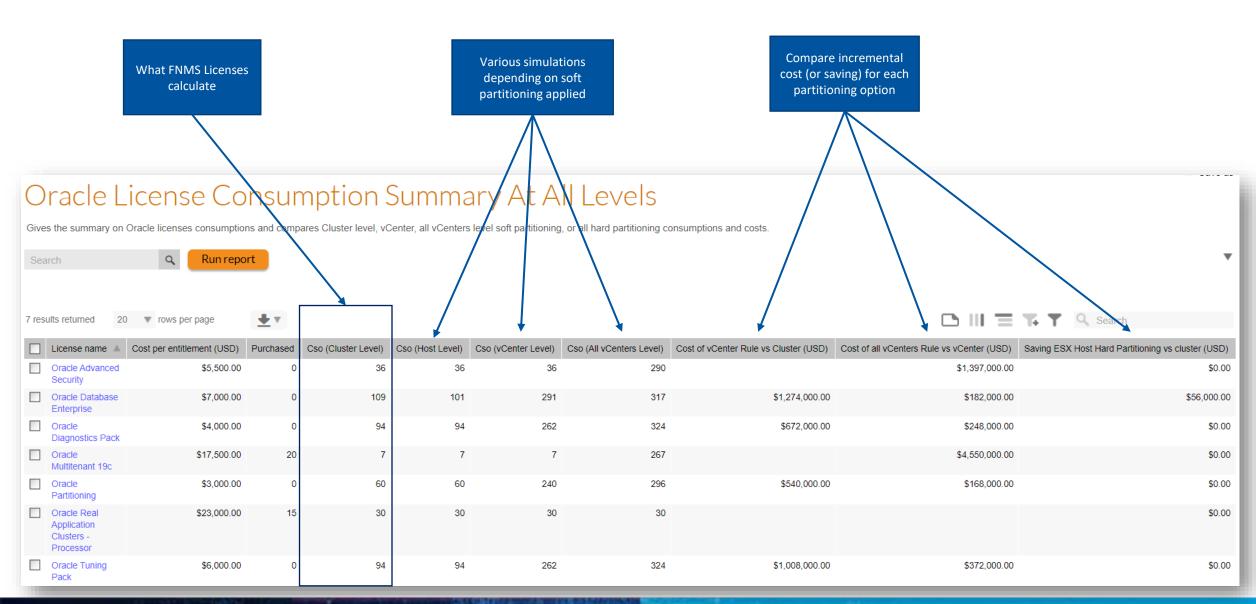
Oracle License Optimization on Clusters



Oracle Licenses Consumption Details and Optimizations



Oracle License Consumption Summary At All Levels



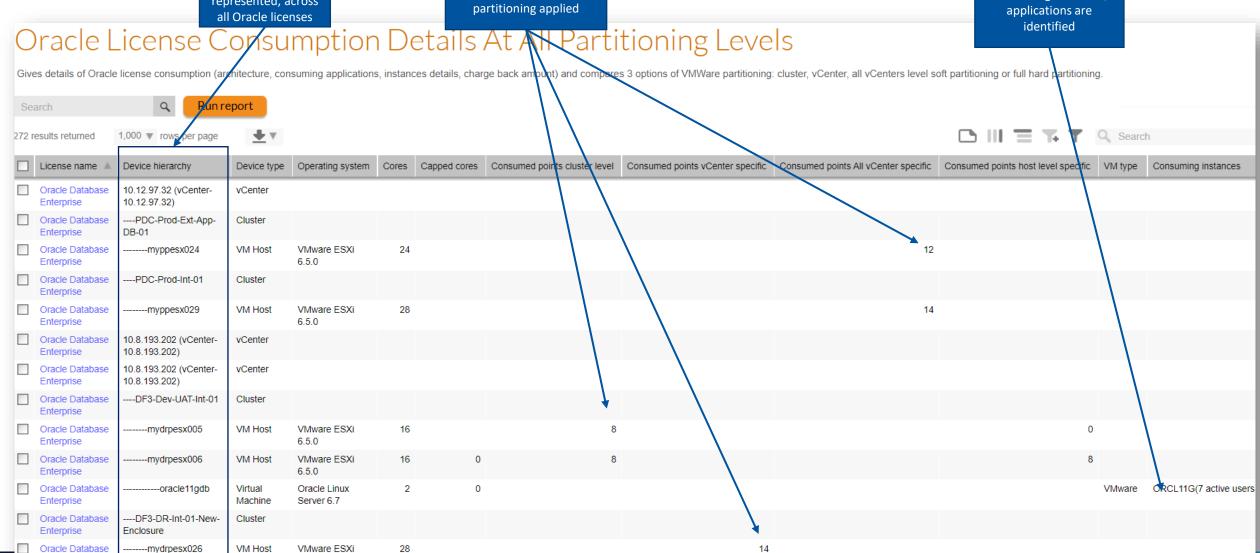
Oracle License Consumption Details At All Partitioning

Levels

The full hierarchy in consumption is represented, across

Various simulations depending on soft

Consuming instances, applications are identified



6.5.0

Enterprise

Oracle Options Virtualization Target Architecture



Useful resources for anticipating released features

- Often on for on-premise customers, but are on boarded
- Oracle-Specific:
 - Oracle Optimization Reports
 - Oracle Instances Transparency Reports
 - Application Recognition Transparency report
 - Automating the non-inclusion of embedded Java instances
- But also other vendors
 - Microsoft: Windows and SQL Server Optimization Reports
 - Adobe Optimization Report
 - Red Hat Optimization Report
- More generally
 - Creating advanced automations in a FNMS Cloud Instance

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