Lakeside®

SysTrack DEX Pack User Guide

AVD Assessment and Management

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Overview

This DEX Pack provides insights into the Azure Virtual Desktop (AVD) and virtual machine (VM) environment to determine which users may be suitable for migration to an AVD product (multi-user vs. single session) and potential subscription cost.

Assessment Summary

Estimate the approximate expense of AVDs based on utilization and if single or multi-session VMs meet the needs of your users.

Sizing Recommendation

Determine if users are over or under provisioned and those that are right sized for Azure Virtual Machines.

Session Host Performance

Gain understanding of resource usage to identify users that may be better suited for physical systems based on high resource consumption.

Assessment Summary

Azure Migrate

Azure VM sizes and pricing data is based on the Azure Migrate API. If you have not yet configured this, the results in this dashboard may be out of date.

The default data is based on information from Microsoft. See Below for Show Advanced Options.

AVD Assessment Summary

This grid displays the AVD assessment in metrics including number of candidates, monthly egress bandwidth, and cost options.

AVD Suitability Summary

This graph displays the number of **Suitable** and **Unsuitable** units for either **Single Session** or **Multi-Session** VMs.

How AVD Suitability is Determined

Single Ideal Users:

Active average CPU Utilization (MIPS) less than single session MIPS

Average Active Memory Utilization (MB) less than Single Session Memory

Ideal Multi Users

Active average CPU Utilization (MIPS) less than multi session MIPS

Average Active Memory Utilization (MB) less than multi Session Memory

User AVD Suitability

This grid displays a summary of AVD Suitability per user.

Advanced Options (Show)

Select **Show** to reveal Cost Estimator Filters and Select Single Session Size.

Cost Estimator

Calculate an estimated number of Azure VMs needed and the expense based on thresholds in the dashboard.

The Defaults are: Currency Conversion Value (local: USD): 1.32.
Max Ideal User Monthly Hours: 200
OS Memory Overhead (MB) 2000

Single Session Sizing

This grid lists the available single session Azure VMs. Included are the approximate Virtual CPU, MIPS, Ram, and Disk. Based on these criteria, an approximate price per month and per year in U.S. Dollars is displayed.

- Choose a Single Session Azure VM that fits your needs.
- Single Session and Multi Session results are displayed independently in the Summary grid.

Note: The VMs listed here are from a dataset that may be out of date. Please configure the Azure API to get the latest results.

Multi-Session Sizing

This grid lists the available multi session Azure VMs. Included are the approximate Virtual CPU, MIPS, Ram, and Disk. Based on these criteria, an approximate price per month and per year in U.S. Dollars is displayed.

- Choose a Multi Session Azure VM that fits your needs.
- If a different VM option is chosen, the data will reflect that choice.

Sizing Recommendation

Sizing Summary

This graph shows the number of VMs that are **Over** or **Under provisioned** and those that **Right Sized**.

Machine Rightsizing Summary Details

This grid lists systems that are over or under provisioned and those that are right sized. Other metrics covered include the Health Score, Suggested Memory, Max Memory Usage, Suggested CPU, and others.

- Double click the systems that are Online under status to enter **Resolve**.

Machine Rightsizing Summary Details

This graph displays the physical and virtual systems in an enterprise. Click the arrow next to **Physical** or **Virtual** for a full list of systems in the selected group.

Select the **Sizing Type** or use the **Search for a System** for details.

The sizing types are:

Green = Right Sized
Blue = Over-Provisioned
Purple = Under-Provisioned

- Double-Click a **System** from the grid to enter **SysTrack Resolve** for an online system.

Factors that influence Sizing Type

When **Graphics Index** is over 75 % = Heavy
When graphics index is between 10 and 75% = Moderate
When graphics index is less than 10 = Light

When **Max Memory Capacity** is between 80% and 100% = Right Sized
Less than 80% = Over Provisioned
Greater than 80% = Under Provisioned

When 125% of **Max CPU** is at 80% to 100% = Right Sized
Less than 80% = Over Provisioned
Greater than 100% = Under Provisioned

<u>For Virtual Machines</u>
When 125% of **Max CPU** is greater than 100% of capacity and system type
= Remove Cores

When 125% of **Max CPU** is less than 80% of capacity and system type
= Add Cores

<u>For Physical Machines</u>
When 125% of **Max CPU** utilization is less than 80% of CPU capacity and system type
= Remove Cores

When **Free C-Drive** percentage is between 10 and 75% free = Right Sized
Less than 10% = Under Provisioned
Over 75% = Over Provisioned

Calculations for Memory Rightsizing

- Calculations are based on maximum memory utilization and recommended memory size based on 125% of that value.
- The sizing is split into buckets. Below are the possible values that will be recommended. There is a different set of values for physical and virtual.
    - **Physical**
        - if 125% of max memory utilization is between 0 and 4 GB, we recommend 4GB
        - 4-8=8
        - 8-12 = 12
        - 12-16 = 16
        - 16-20 = 20
        - 20-24 = 24
        - 24-28 = 28
        - 28-32 = 32
        - 32+ = No change (Right Sized)
    - **Virtual**
        - 0-2 = 2
        - 2-4=4
        - 4-6 = 6
        - 6-8=8
        - 8-10=10
        - 10-12=12
        - 12-14=14
        - 14-16=16
        - 16-18=18
        - 18-20=20
        - 20-22=22
        - 22-24=24
        - 24-26=26
        - 26-28=28
        - 28-30=30
        - 30-32=32
        - 32+ = "no change" (Right Sized)

- If the recommendation matches the existing memory capacity of the system, we say "no change" (Right Sized).

Overall Sizing Information

- If all 3 metrics (CPU, Max Memory Utilization, C-Drive Diskspace) says "no change", we say the system is "right sized"
- If any of the following is true, we say the system is "under-provisioned"
    - CPU recommendation is "add cores" or "overutilized"
    - memory recommendation is to increase memory size
    - disk recommendation is "low space"
- Any systems that do not meet the conditions listed above are "over provisioned"

Application Resource Consumption

This grid displays resource use by application.

- Use the Entry Box to Enter Application name.
- Choose either 32-bit or 64-bit Architecture for accurate data.

Session Host Performance

Overall CPU, Memory Utilization

This grid tracks how users consume resources during a specified time frame.

- Hover over a dot for specifics on a data point.

Last 30 Days Session Host Performance Trend

This graph shows the performance trend over the last 30 days of a selected metric.

- Hover over a dot for specific values.

Resource Utilization per Server

Choose a **Server** to display specific details of **Resource Utilization**. This choice will inform **Resource Utilization per User**, **Selected Server Session Details**, and **Selected User Session Details** tables.

Server Session Details (Selected)

This graph identifies a specific server’s session, machine name, and other details.

Resource Utilization per User

This grid displays the average memory, disk, and CPU usage per user.

User Session Details (Selected)

This data identifies which users are better candidates for desktops or physical systems based on high resource consumption.

Error Summary

Error Summary – Click for Details

This pie chart reveals the distribution of errors related to the AVD session for a selected time frame.

- Select the **Error Type**, either External or Internal
- Select the **Date Range**

Internal vs. External Errors

This graph shows the number of external and internal errors across a given time frame.

- Select a dot for the specific time and type of error that occurred.