Using the Zerto WAN Sizing Estimator

Rev01 U2
Dec 2019
ZVR-WSZ-7.5
© 2019 Zerto All rights reserved.

Information in this document is confidential and subject to change without notice and does not represent a commitment on the part of Zerto Ltd. Zerto Ltd. does not assume responsibility for any printing errors that may appear in this document. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or information storage and retrieval systems, for any purpose other than the purchaser's personal use, without the prior written permission of Zerto Ltd. All other marks and names mentioned herein may be trademarks of their respective companies.

The scripts are provided by example only and are not supported under any Zerto support program or service. All examples and scripts are provided "as-is" without warranty of any kind. The author and Zerto further disclaim all implied warranties including, without limitation, any implied warranties of merchantability or of fitness for a particular purpose.

In no event shall Zerto, its authors, or anyone else involved in the creation, production, or delivery of the scripts be liable for any damages whatsoever (including, without limitation, damages for loss of business profits, business interruption, loss of business information, or other pecuniary loss) arising out of the use of or inability to use the sample scripts or documentation, even if the author or Zerto has been advised of the possibility of such damages. The entire risk arising out of the use or performance of the sample scripts and documentation remains with you.

ZVR-WSZ-7.5
Using the Zerto WAN Sizing Estimator

This document describes how to use the Zerto WAN Sizing Estimator. See the section Calculating the Estimated Bandwidth Requirement on page 3.

For additional information about WAN sizing, see Zerto Scale and Benchmarking Guidelines.

Note: The Zerto WAN Sizing Estimator is included in the download with this document.

Calculating the Estimated Bandwidth Requirement

Use the average write rate for the virtual machines in a VPG in the Zerto WAN Sizing Estimator to estimate the minimum bandwidth required.

For each VM you also must decide whether compression will be enabled for the VM, based on the data characteristics.

Use one of the following procedures:

• Estimating sizing using the Zerto WAN Sizing Estimator on page 3
• Estimating sizing without using the Zerto WAN Sizing Estimator on page 4

Estimating sizing using the Zerto WAN Sizing Estimator

To estimate sizing using the Zerto WAN Sizing Estimator:

1. Open the Zerto WAN Sizing Estimator.
2. Enter the following information in the VM data sheet:
   • The VM name.
   • The Write KB/s data, based on the statistics gathered in the previous task. Use a period for the decimal mark.
   • Define whether compression is enabled for this VM: Select Yes or No.
   • The application data characteristics: Select Compressed or Compressible.

   The Zerto WAN Sizing Estimator colors the cell red if you decide to employ compression on compressible data and orange if you decide to avoid compression for compressible data.

3. The Zerto WAN Sizing Estimator estimates the total bandwidth needed for your deployment, using a minimum value of 5 Mb/sec.

   The estimation is displayed on the top of each page of the Zerto WAN Sizing Estimator.

To estimate the WAN sizing required without using the Zerto WAN Sizing Estimator, using the following procedure.
Estimating sizing without using the Zerto WAN Sizing Estimator

To estimate sizing without using the Zerto WAN Sizing Estimator:

1. For each virtual machine in the VPG multiply the KB/sec (which is based on the statistics gathered) by 8, and divide the result by 1024 to provide an answer in Mb/sec.
   - If compression is enabled for the VM and the data is compressible, divide this result by 2.
2. Sum the results of step 1.

\[
\text{WAN Mb/sec} = \text{SUM}(\text{KB/sec} \times \frac{8}{1024}/(1 \text{ or } 2 \text{ if compressible data that will be compressed}))
\]

The result is an estimate of the required Mb/sec for the WAN.

Note: If the result is less than 5 Mb/sec, see Zerto Scale and Benchmarking Guidelines for minimum bandwidth requirements.
Zerto enhances the Zerto IT Resilience Platform by converging disaster recovery and backup to deliver continuous availability within a simple, scalable platform. Zerto delivers enhanced analytics, platform improvements and cloud performance upgrades required in the future of IT resilience.

Learn more at Zerto.com.

For assistance using Zerto’s Solution, contact: @Zerto Support.

© 2019 Zerto Ltd. All rights reserved.