

SERVICE TECHNOLOGY SERIES FROM THOMAS ERL



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& Cloud Solution Director, Microsoft Corp.

*"a must-read for any IT professional interested
in cloud computing."*

— **Andre Tost**, Senior Technical Staff Member,
IBM Software Group

Cloud Computing

Concepts, Technology & Architecture

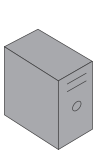
by Top-Selling Author Thomas Erl
with Zaigham Mahmood and Ricardo Puttini

Foreword by Pamela J. Wise-Martinez,

Department of Energy, National Nuclear Security Administration

Contributions by Gustavo Azzolin, Amin Naserpour, Vinícius Pacheco, Matthias Ziegler

Contribution by Michaela Iorga, Ph.D., Senior Security Technical Lead for Cloud Computing, NIST



physical server



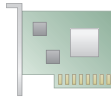
firewall



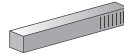
CPU



memory



network adapter



physical network device



connection ports or virtual switch



virtual desktops



hypervisor



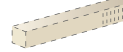
virtualization platform



virtual server



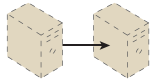
virtual firewall



virtual network device



VI manager



live VM migration



router



core switch



top-of-rack switch



schema or data model



policy



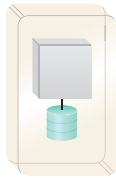
general machine processable document



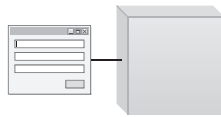
human readable document



ready-made environment



management system



remote administration system



actively processing



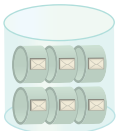
component or program



product, system or application



service agent



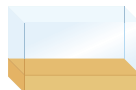
message queue



repository or storage device



shared storage



state data in memory



service with state data (stateful service)



repository with state data



grid service



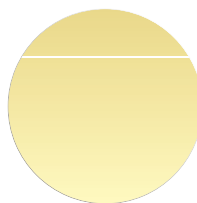
service



service composition



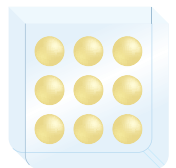
service layer



service contract (chorded circle notation)



decoupled service contract



service inventory

Cloud Computing: Concepts, Technology & Architecture

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