Documentazione generica

- Compatibilità del processore AMD EPYC con lo **standard x86**:
  https://www.amd.com/system/files/2017-07/EPYC-Offers-x86-Compatibility.pdf

- **Dell EMC | AMD Landing Page – Italiano:**
  https://www.dellemc.com/it-it/servers/amd-servers.htm

Video sul Dell Poweredge R7425:

- Presentazione R7425:
  https://www.youtube.com/watch?v=oj9FXD46AGY

- Rimozione ed installazione RAM:
  https://www.youtube.com/watch?v=CF8AfyZD30A

- Rimozione ed installazione CPU:
  https://www.youtube.com/watch?v=6RyEVTkf0V8

Ambienti virtualizzati e contenitori

- Guida alla migrazione delle Virtual Machine per ambienti **VMware, Microsoft® Hyper-V** and **Linux® KVM**:
  https://www.amd.com/system/files/documents/vm-migration-guide.pdf

- AMD, Dell EMC e VMware sono i primi a rendere noti i risultati relativi al nuovo benchmark TPC™ Express V, che offre prestazioni eccezionali per i workload dei database pur mantenendo un prezzo competitivo:
  https://www.dellemc.com/it-it/servers/amd-servers.htm#overlay=/content/dam/uwaem/production-design-assets/en/servers/amd-servers/pdf/tpcx-v-amd-epyc-first-to-publish.pdf

- Scalabilità uniforme e lineare delle prestazioni di **Docker** su AMD EPYC:
  https://www.amd.com/system/files/documents/amd-epyc-delivers-linear-scalability-for-docker-with-bare-metal-performance.pdf

Software Defined Datacenter

- Un'architettura bilanciata con più core e funzionalità I/O, di memoria e protezione migliorate è la scelta più adatta per la Software Defined Infrastructure: https://www.dellemc.com/it-it/servers/amd-servers.htm#overlay=/content/dam/uwaem/production-design-assets/en/servers/amd-servers/pdf/AMD-EPYC-for-Software-Defined-Infrastructure-Dec-2017.pdf
- I server Dell EMC a socket singolo con sistemi AMD EPYC che eseguono VMware vSAN garantiscono notevoli vantaggi in termini di TCO: https://www.dellemc.com/it-it/servers/amd-servers.htm#overlay=/content/dam/uwaem/production-design-assets/en/servers/amd-servers/pdf/Demartek-Dell-PowerEdge-R7415-AMD-EPYC-VMware-vSAN-Mixed-Workloads-Performance.pdf

- Soluzione di iperconvergenza con EPYC e StorMagic SvSAN: https://www.amd.com/system/files/documents/hyperconvered_solutions_epyc_stormagi_svsan.pdf

Big Data e Database

- Vantaggi del processore EPYC con MongoDB e reference architecture: https://www.amd.com/system/files/documents/mongodb-and-amd-epyc-for-the-intelligent-operational-data-platform.pdf

- Vantaggi del processore EPYC con Cloudera e reference architecture: https://www.amd.com/system/files/documents/epyc-cloudera-big-data-analytics.pdf

- Vantaggi del processore EPYC con Datastax e reference architecture: https://www.amd.com/system/files/documents/EPYC-DataStax-Cloud-Database.pdf

- Vantaggi del processore EPYC con Couchbase e reference architecture: https://www.amd.com/system/files/documents/EPYC-Couchbase-Powering-Databases.pdf

- Vantaggi del processore EPYC con MapR e reference architecture: https://www.amd.com/system/files/documents/EPYC-MapR.pdf

- Vantaggi del processore EPYC con Hortonworks e reference architecture: https://www.amd.com/system/files/documents/EPYC-Hortonworks.pdf

- Vantaggi del processore EPYC con Transwarp Data Hub e reference architecture: https://www.amd.com/system/files/documents/EPYC-Transwarp.pdf

VDI

- Il server a doppio socket PowerEdge R7425 supporta perfettamente gli ambienti VDI Knowledge Worker: https://www.dellemc.com/it-it/servers/amd-servers.htm#overlay=/content/dam/uwaem/production-design-assets/en/servers/amd-servers/pdf/Demartek_Dell_R7425_AMD_VDI_Knowledge_Worker-White-Paper.pdf

HPC

- AMD EPYC, leader del settore per numero di core e larghezza di banda della memoria, consente di ottimizzare le prestazioni **HPC**: https://www.dellemc.com/it-it/servers/amd-servers.htm#overlay=/content/dam/uwaem/production-design-assets/en/servers/amd-servers/pdf/AMD-EPYC-for-High-Performance-Computing-Dec-2017.pdf

- Performance di EPYC con il software per calcoli strutturali **Radioss** di Altair: https://www.amd.com/system/files/documents/amd-epyc-with-altair-radioss-powering-hpc.pdf

- Performance di EPYC con il benchmark per i modelli metereologici **HYCOM**: https://www.amd.com/system/files/documents/epyc_hycom_sophisticated_weather_modeling.pdf (guida per eseguire HYCOM su EPYC: https://www.amd.com/system/files/documents/guide-to-running-hycom-on-epyc.pdf)

- Performance di EPYC con il software per i modelli metereologici **WRF:** https://www.amd.com/system/files/documents/wrf-and-amd-epyc-the-right-combination-for-weather-modeling.pdf

- Performance di EPYC con la suite software **PAM-CRASH** di ESI per il crash simulation: https://www.amd.com/system/files/documents/amd-epyc-esi-pam-crash-for-crash-simulation.pdf

- Performance di EPYC con il software **LS-DYNA®** che simula numerosi problemi reali che coinvolgono parametri multi-fisici: https://www.amd.com/system/files/documents/amd-epyc-and-lstc-ls-dyna-powering-the-future-of-hpc.pdf

- Performance di EPYC con il software per calcoli multi-fisici e di fluido dinamica **ANSYS Fluent:** https://www.amd.com/system/files/documents/epyc-and-ansys.pdf

- Performance di EPYC con il software per calcoli di fluido dinamica **OpenFOAM**: https://www.amd.com/system/files/documents/amd-epyc-with-openfoam-for-hpc.pdf

- Performance di EPYC con il benchmark per i calcoli di fluido-dinamica CD-adapco® STAR-CCM+®:
  https://www.amd.com/system/files/documents/epyc_starccm_computational_fluid_dynamics.pdf

- Performance di EPYC con il benchmark per i grandi sistemi biomolecolari NAMD:
  https://www.amd.com/system/files/documents/namd-gets-high-performance-with-amd-epyc.pdf

OS and Hypervisor Vendors : Technical Documentation

Red Hat

Red Hat Enterprise Linux 7 Performance Tuning Guide

SUSE

Deployment Guide: SUSE Linux Enterprise Server 12 SP3
Virtualization Guide: SUSE Linux Enterprise Server 12 SP3
Virtualization Best Practices: SUSE Linux Enterprise Server 12 SP3

Canonical

Ubuntu Server Guide: Virtualization

VMware

Performance Best Practices for VMware vSphere 6.5

Citrix

XenServer Performance Tuning – Top 5 Recommended Guides

OS Tuning

- Linux® Network Tuning Guide for AMD EPYC™ Processor-Based Servers
- Optimizing Linux for AMD EPYC with SUSE Linux Enterprise 12 SP3

Hardware/Software Tuning

- NVMe Performance Testing and Optimization
- Java Application Performance Tuning for AMD EPYC Processors
- Software Techniques for Managing Speculation on AMD Processors
- Performance Tuning Guidelines for Low Latency Response on AMD EPYC-Based Servers
- Software Optimization Guide for AMD EPYC Processors
- Microsoft Windows 2016 Mellanox 100GbE NIC Tuning Guide
- VMware Network Throughput on AMD EPYC™ with Mellanox 100GbE NIC
- NVMe SSD Performance Evaluation Guide for Windows Server 2016 and Red Hat Enterprise Linux 7.4

Benchmarks and Performance

TPCx-IoT

- AMD EPYC Delivers Best in Class Performance on TPCx-IoT HBASE, Nov 2018

TPCx-v

- AMD, Dell EMC, and VMware Are First to Publish TPCx-V Results for Virtualized Database Workloads

TPCx-HS

- TPCx-HS Best in Class Results with AMD EPYC™ Processors
- World Record Industry Standard Big Data Performance at 10TB with AMD EPYC
- World Record Industry Standard Big Data Performance at 30TB with AMD EPYC

SPEC CPU® 2017 Floating Point

- AMD EPYC™ SoC Consistently Sets World Records on SPEC CPU 2017 Floating Point Benchmarks

Stream

- AMD EPYC SoC Delivers Exceptional Results on the STREAM Benchmark on 2P Server