



*Facultatea de Automatica
si Calculatoare - UPB*

**ASCG – Cloud si
GRID Computing**

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Agenda

- Prezentare Cloud Computing
- Diferente tehnologice
- Studiu de caz: VMWare
- Concluzii: Cloud vs GRID

*Cloud computing versus grid computing - Judith Myerson, IBM, 2009



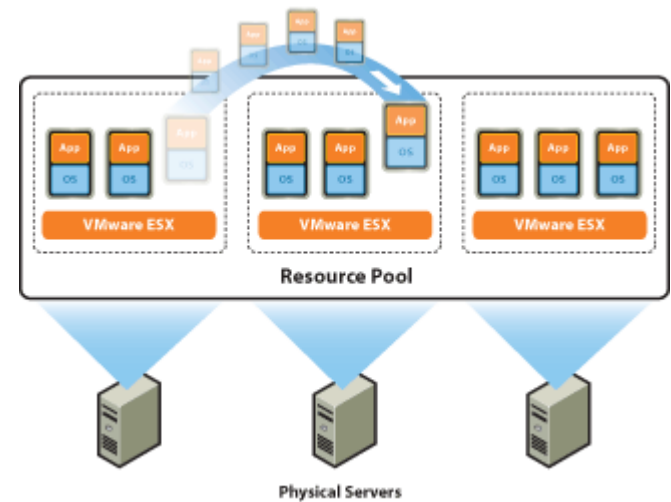
Cloud Computing

- Serviciu de procesare in “nor”
- O dezvoltare comerciala a conceptului de GRID (Microsoft, IBM, VMWare, Amazon, Google, etc)
- Outsourcing
- Scalabilitate instantanee
- CAPEX diminuat substantial
- Tipuri: privat sau public

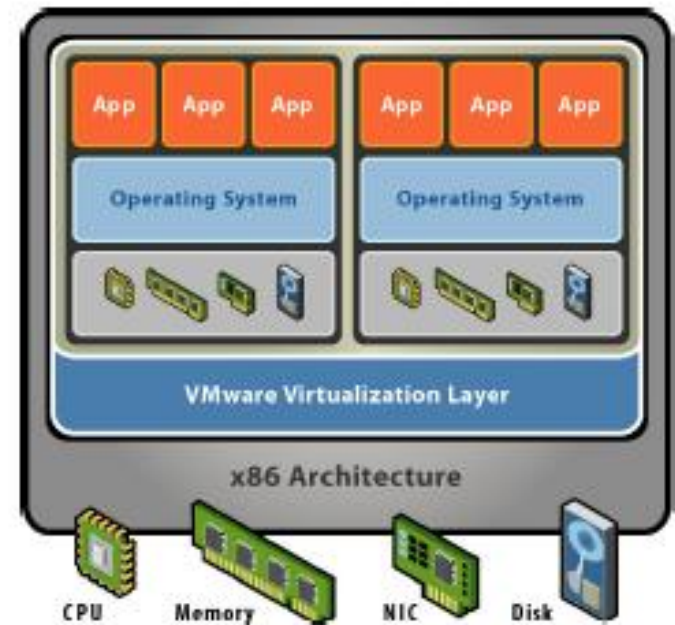


Diferente tehnologice

- Cloud Computing
 - Se bazeaza pe virtualizare
 - Este oferit ca serviciu
- Grid Computing
 - Arhitecturi clare: MOSIX, MPI, RHODOS

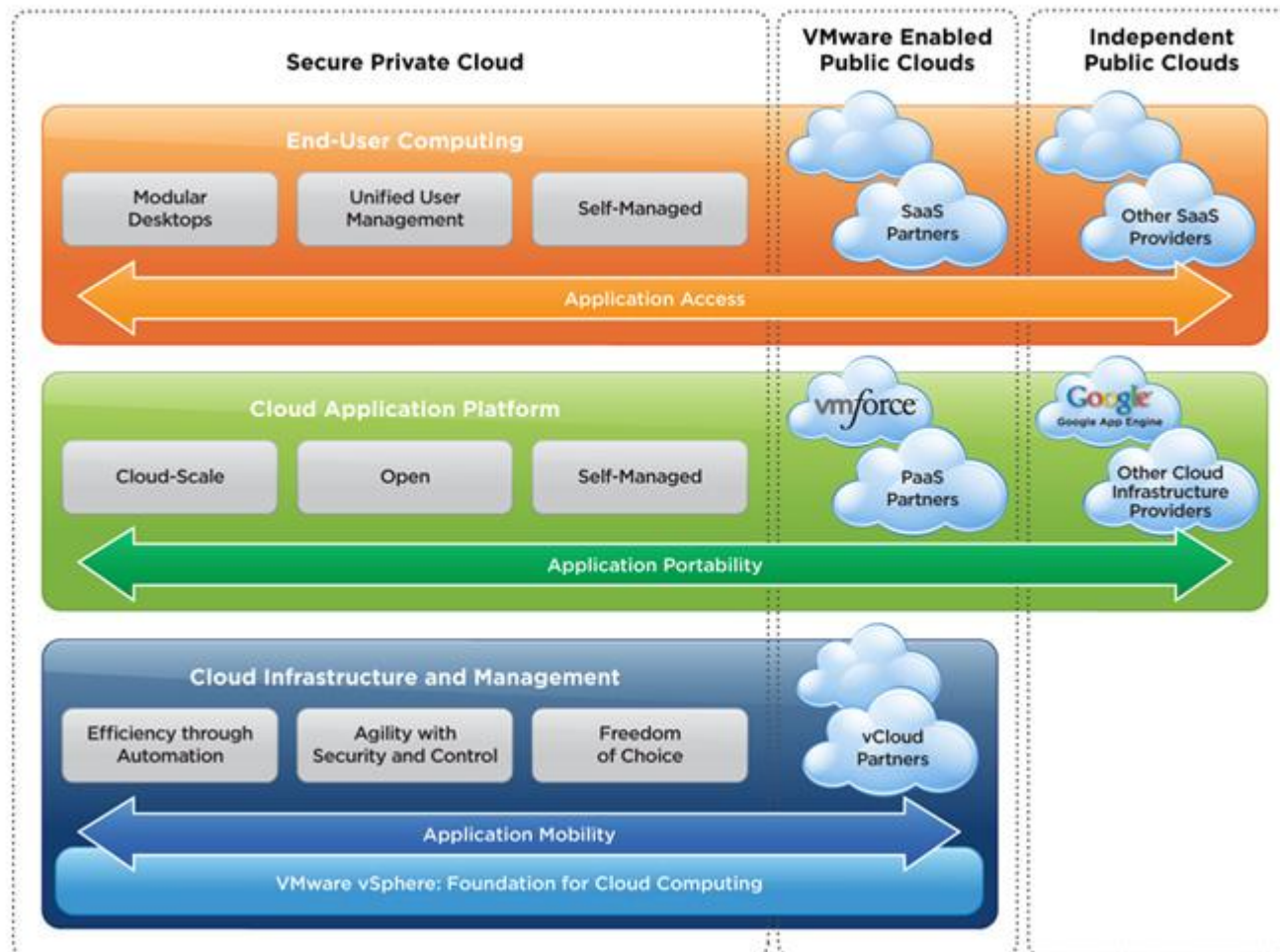


Exemplu: vCloud (fundatie)



Exemplu: vCloud (arhitectura)

VMware Solutions for Cloud Computing

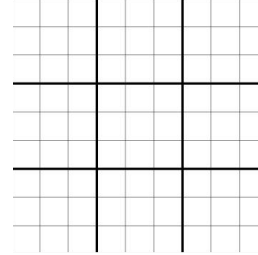


Cloud vs. Grid



Cloud

- Aplicatii generice
- Costuri scazute
- HA
- Flexibilitate >
- Rulare directa
- Comercial



Grid

- Aplicatii specifice
- Costuri >
- SPF
- Performanta >
- Cod dedicat
- Research/HPC

