



SYSTEM TRANSITION TO CLOUD

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CONTENT

CONDITIONS FOR MIGRATION TO CLOUD

PHYSICAL TO VIRTUAL

VIRTUAL TO VIRTUAL

HYBRID CLOUD



BEFORE TRANSITION BEGINS

IT'S NECESSARY THINK OF

- Does the IT environment really need to transition to cloud?
- Market analysis
- IT analysis
- Cost analysis
 - Including maintenance resources and distinct vendor offerings
- Risk analysis
- Transition plan

MARKET ANALYSIS

WHAT WILL THE TRANSITION BRING

	Helpful	Harmful
Internal	Strengths S	Weaknesses W
External	Opportunities O	Threats T

IT ANALYSIS

TRANSITION FROM IT'S PERSPECTIVE

- Will serve as a base for defining rules for tendering process
- Should include current IT inventory
- Functional analysis of deployed applications
 - Libraries and their versions
- Functional requirements of existing applications (for instance smartcard support)
- The same for projected applications that are to be run in cloud
- Performance requirements
 - Certain cloud implementations provide power-per-vm performance worse than baremetal hardware

COST ANALYSIS

HOW MUCH

- Based on IT assesment various vendors whose product match the needs are picked
 - Predefined cost mentioned on web pages, etc. is not fixed and many times can be dealt to much lower
- HW cost
- Maintenance cost
 - Someone has to maintain HW and software, updates, outages, SLA

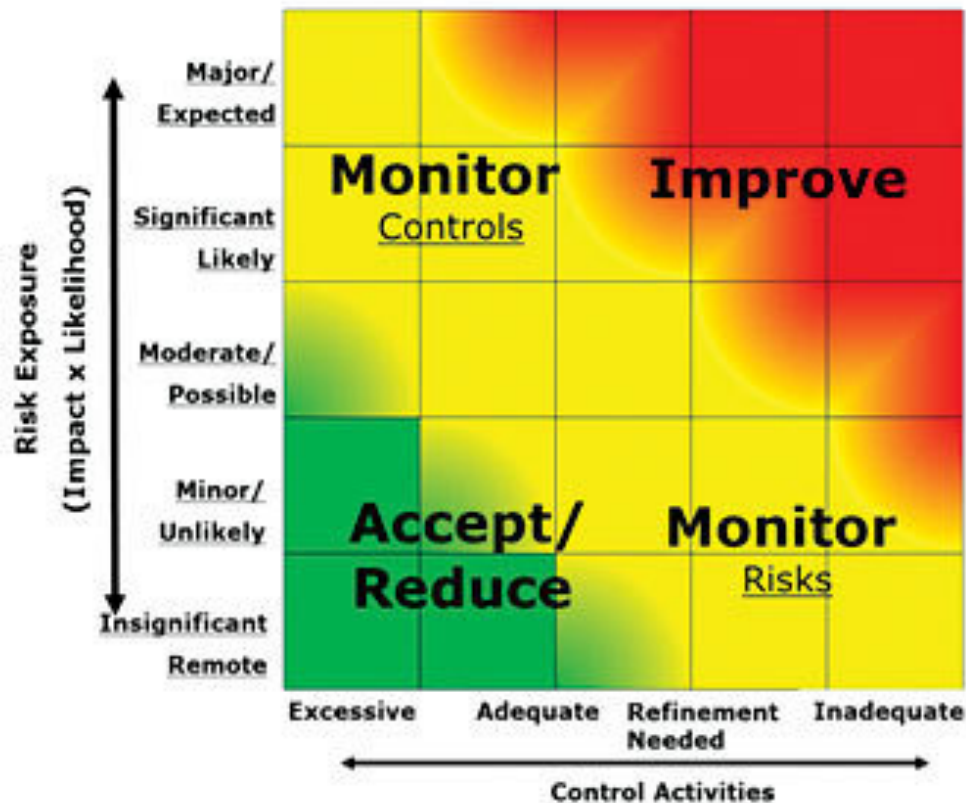
RISK ANALYSIS

WHEN SOMETHING GOES WRONG

- HW
 - Estimate risk of fault for cloud components
 - Example:
 - Hard drive has a projected fault rate of 2% (depends on vendor: [PC World HDD study](#)), if your cloud consists of 40 TB of disk space in 512 MB drives (~80 drives) you'll annually lose almost 2 drives
- SW
 - Each upgrade poses risk
 - Enterprise applications show risk charts based on codebase changes
- Includes projected steps to minimize risks, or inventory of accepted risk factors

RISK ANALYSIS

SIMPLIFIED



TRANSITION PLAN

PLAN OF THE BATTLE

- What migrates first, what is installed first
- What SLAs we need to keep
- Maintenance windows definition

PHYSICAL TO VIRTUAL

BAREMETAL TO CLOUD

- Complete image of the disk is made
- Necessary changes are done to the image
- Image gets uploaded to cloud
- Tooling can make your life easy
 - [Virt P2V](#)

VIRTUAL TO VIRTUAL

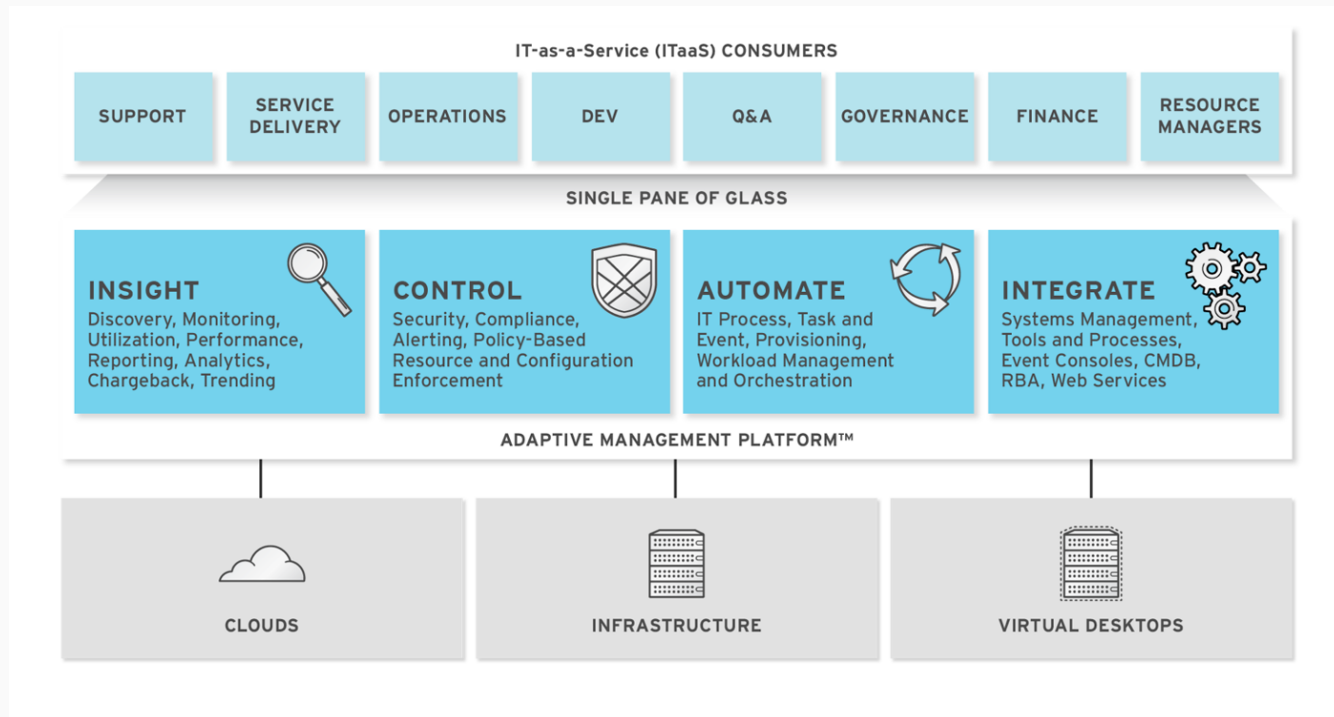
WHEN YOU ALREADY RUN DATACENTER VIRTUALIZATION

- Datacenter Virtualization (sometimes mistakenly called private cloud)
- Complete image of configuration for VM is transitioned
- Disk conversion happens in case of migration between hypervisor types
- Tooling can make your life easy
 - [Virt V2V](#)

HYBRID CLOUD

WHEN YOU NEED TO SMOOTHLY TRANSITION BETWEEN PRIVATE/PUBLIC CLOUD

normal text



QUESTIONS ?

