VIR1

- CPNV – ES
- Software development orientation
- 4th quarter - 2023-2024

- Glassey Nicolas

Benefits of virtualization ?

- ❖ Virtualization offers substantial benefits for just about any business or development environment.

- ❖ It has become a core strategy for improving IT efficiency (agility).
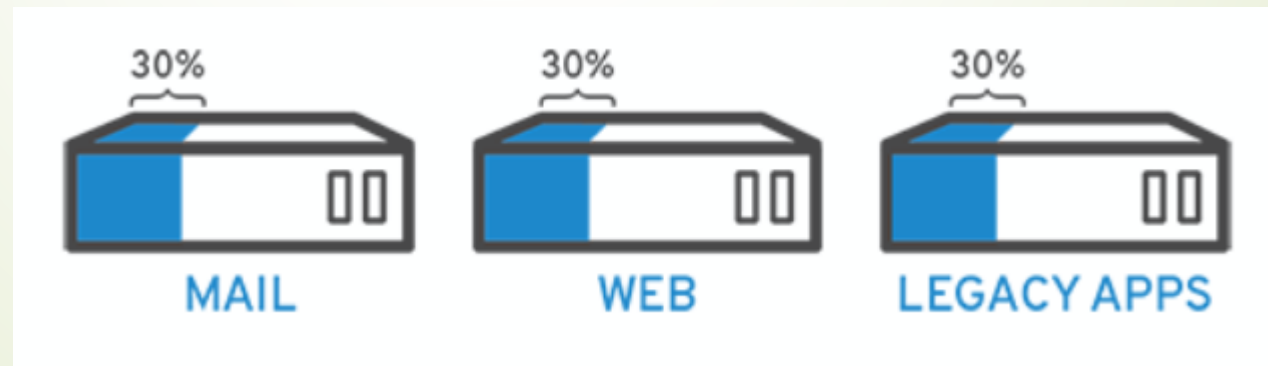
Benefits of virtualization ?

❖ Reduced expenses
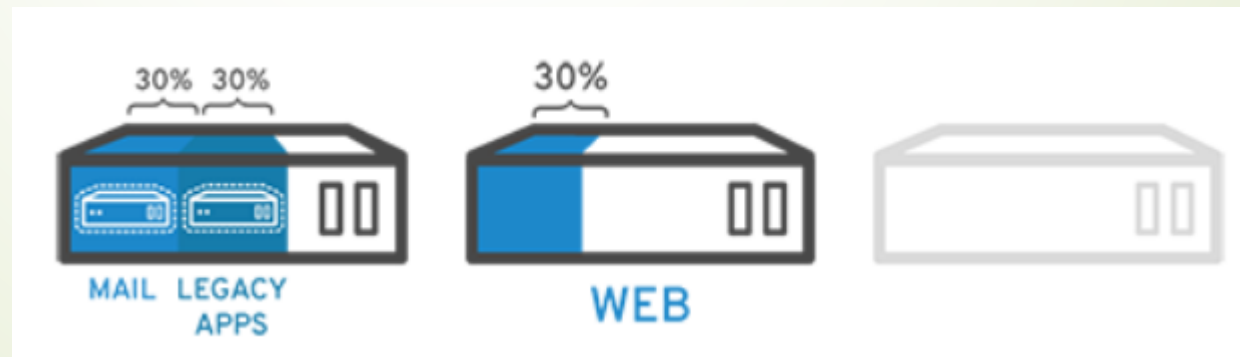
Benefits of virtualization ?

❖   Reduced expenses

✓ If the only way to get more resources is to purchase new hardware, that price becomes hefty.
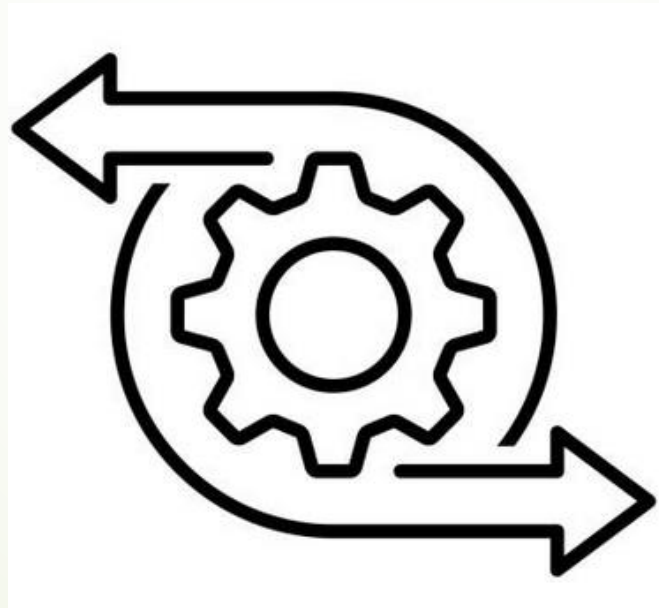
Benefits of virtualization ?

❖ Reduced expenses

✓ With virtualization tactics, you can take a hard look at your existing infrastructure and identify wasted or idle computing resources.
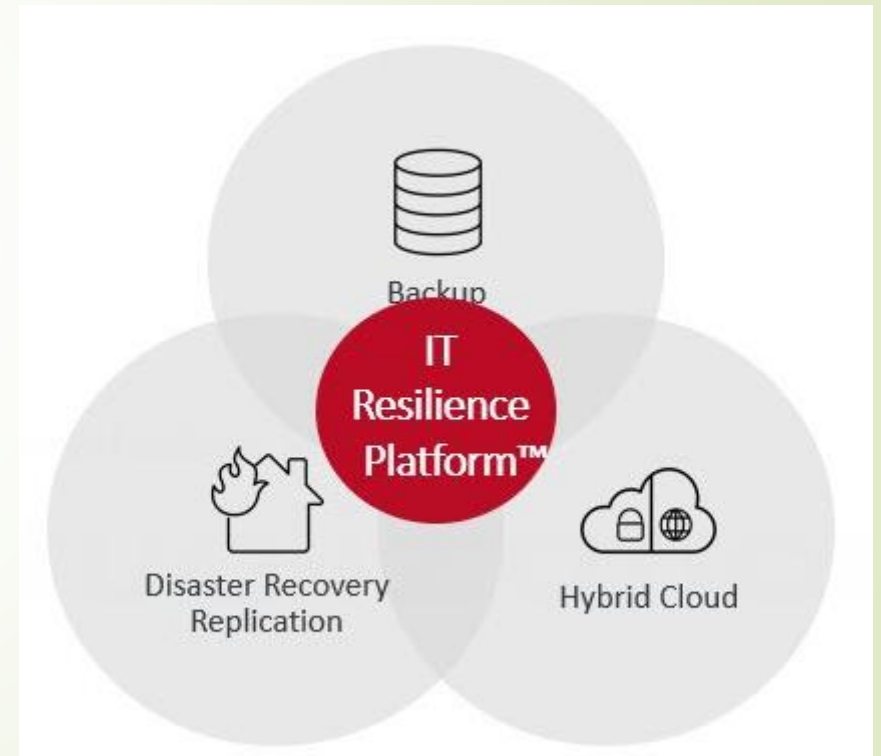
Benefits of virtualization ?

❖ Resiliency

https://www.flaticon.com

Benefits of virtualization ?

❖ Resiliency – IT Approach

✓ IT resilience is this ability of an organization to maintain acceptable service levels when there is a disruption of business operations, critical process, or IT ecosystem.

https://ivision.com/blog/modern-disaster-recovery-it-resiliency/

Benefits of virtualization ?

❖ High availability

https://www.flaticon.com

Benefits of virtualization ?

❖ High availability

✓ Since you can clone a VM almost effortlessly, you can easily set up redundant virtualized environment.

✓ Virtualization provides an extremely reliable system with no single point of failure in hardware or software (Failover).

✓ Virtualization provides developers constant access (no downtime).

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Benefits of virtualization ?

❖ Increased efficiency

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Benefits of virtualization ?

❖   Increased efficiency

✓ Virtual environments are much easier to maintain (than physical).

✓ With less hardware to worry about... more time to spend on improving the solution.

✓ By nature, virtual environments are inherently scalable.

Benefits of virtualization ?

❖ Easy DevOps

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Benefits of virtualization ?

❖ Easy DevOps

✓ You can test features and squash bugs without affecting your live product.

✓ Facilitates pipeline usage for development, testing and deployment.

✓ Virtualization provides on-demand access to an infinite number of peflectly replicated virtual machines for developers to play with.

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