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Risk Management in Project Management

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Implementing Risk Management

01

Identify: Workshops, historical data.

02

Analyze: Qualitative (Severity) + Quantitative (Monte Carlo).

03

Plan: Avoid/Mitigate/Transfer/Accept.

03

Monitor: Automated alerts (e.g., JIRA).

Metric:

"Reduced unresolved risks by 40% via monthly reviews."



IT-Specific Risk Management

Key Risks:

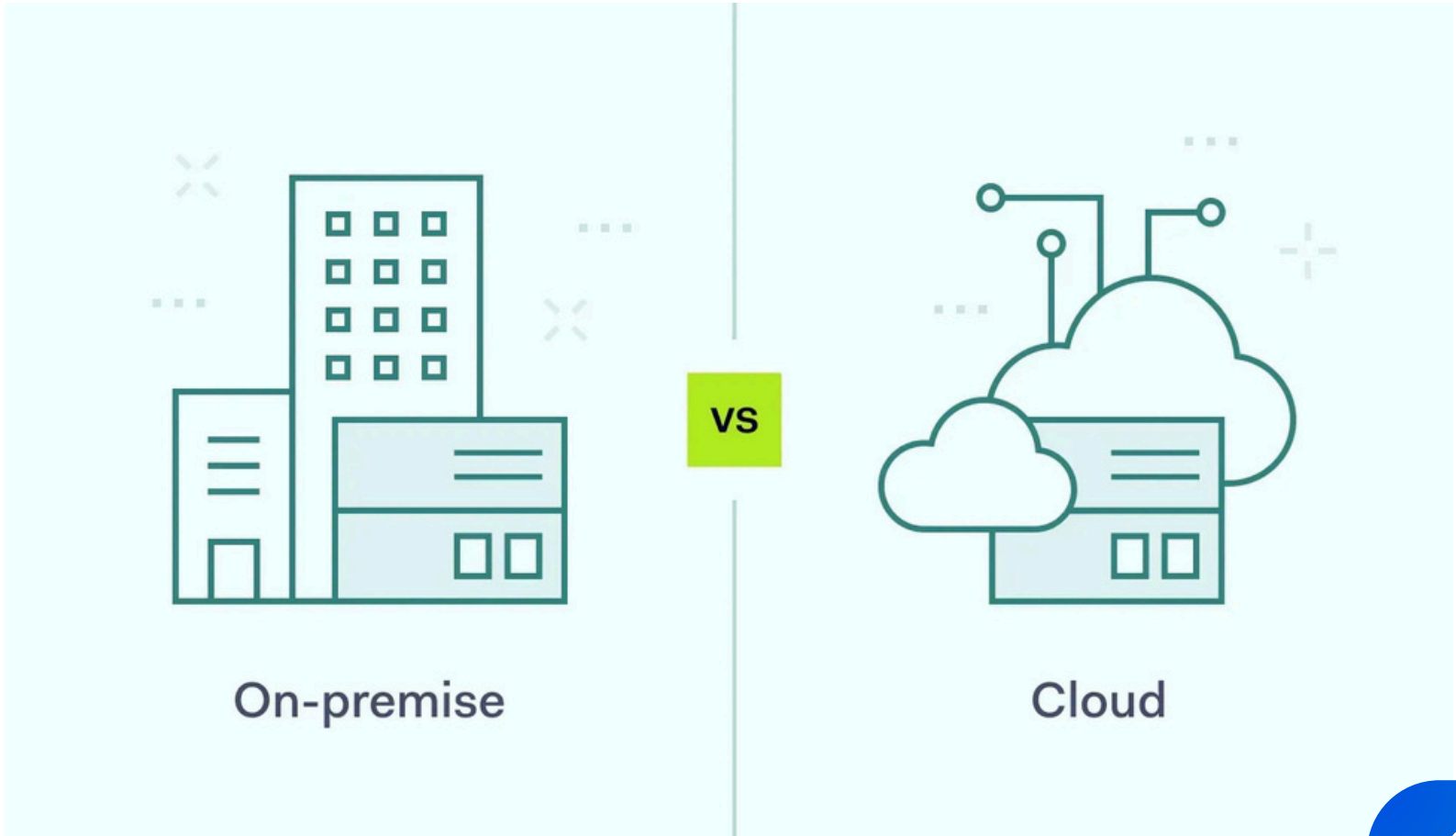
Data breaches, vendor lock-in, tech debt.

Case Study: Cloud Migration

- **Risk:** Data corruption during transfer.
- **Solution:** Phased migration + checksum validation.
- **Result:** Zero data loss; 2 weeks ahead of schedule.

Use Case: On-Premise vs Cloud

Factor	On-Premise	Cloud
Cost	High CAPEX	OPEX spikes
Security	Full control	Shared responsibility
Scalability	Manual upgrades	Instant





Mitigation Strategies

On-Premise Risk

- Hardware Failure: RAID-10 + Nagios monitoring.
- Capacity Limits: VMware virtualization.

Cloud Risks

- Data Breaches: Encryption + IAM roles (AWS KMS).
- Vendor Lock-in: Multi-cloud Kubernetes.



Metrics & Proof of Impact

Dashboard Highlights:

- 30% fewer critical risks via quarterly audits.
- \$50K/year saved with hybrid cloud DR strategy.

Case Study Appendix:

Project: ERP Upgrade

- **Risk:** Legacy data incompatibility.
- **Solution:** Parallel testing + Python sanitization scripts.
- **Result:** 20% under budget; zero disruption.

Visual Appendix



Risk Management Process Flow



Risk Register Snippet

ID	Risk	Pre-Mitigation	Post-Mitigation
RISK-01	Data breach	High	Medium (MFA + Encryption)



Conclusion

Proactive risk management saves costs (25-30% per PMI).

IT requires balancing agility with governance (COBIT/ITIL).

Call to Action: "Let's discuss how I can apply this to your next project."

THANK YOU



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