Cloud Implementation Project

Technical Proposal

Team 8: Avani Chandratre,

Abanoub Ibrahim, Johann Winter

& Aliyah Mohammed
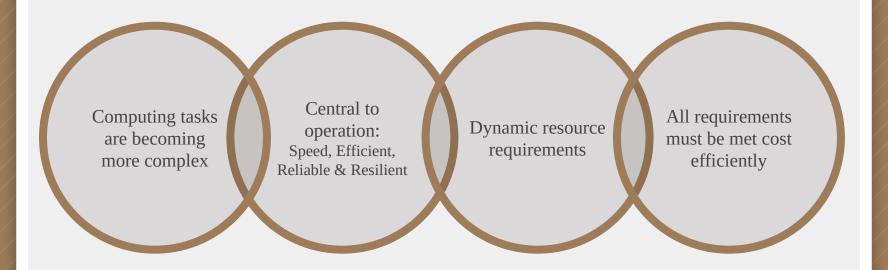
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Technical Problem

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The Department of Homeland Security has committed to 12 cloud service offerings, including nine private cloud offerings and three public cloud offerings, as part of its commitment to the White House's "Cloud First" policy. By moving its disparate dev and test systems into a private cloud, DHS anticipates being able to greatly accelerate the delivery of new software and services. Server provisioning time should decrease from six weeks to a day, and the service will include on-demand testing and app management. Your team is asked to submit a tech proposal to the department of homeland security for this cloud implementation project. Your submission should specifically respond to the context referred in this prompt.

Justification - What is needed?

Computing tasks are becoming more complex

Central to operation:
Speed, Efficient, Reliable & Resilient

Dynamic resource requirements

All requirements must be met cost efficiently

Justification - What can the cloud provide?

- Tools for fast provisioning
- Outsourcing technical tasks to cloud providers is much more time efficient
- Multiple locations for fast access around the world
- Dynamic computing requirements → Dynamic resource usage
- Significantly cheaper than on-premise infrastructure
- Built in redundancy
- Providers operate on much larger scale
- Dedicated teams focussing on mission critical areas

Technical Approach

◇ Rehost

◇ Multi-cloud

◇ Scalable Performance

◇ Shared services

◇ Cloud migration is more than a technological change

◇ Refactor/Re-Architect

◇ Data Migration Cloud Services

Personnel Requirements

1

Business Leader

Runs the development team and is responsible for making decisions

2

Cloud Architect

knowledge and expertise on cloud applications, resources, services, and operations

3

Project Manager

serves as the bridge between the project's stakeholders and the technical team.

4

Security Specialist

Ensure that all security measures are followed properly and that any security flaws can be fixed without any data compromises.

Workplace Change

Change Resistance	Summits & Conferences	Growth Assignments
People like comfort so it can be hard to change their minds. Know your team so you can use their strength.	Employees can gain skills which can make training easier. They gain new insights from others.	Push them to come out of their comfort zone which can help monitor their skill level

Anticipated Benefits

◇ Accelerate the delivery of new software and services

◇ Design flexibility

◇ Increase security and compliance

◇ Simplify application testing and management

◇ Broader support

◇ Reduces overhead costs

◇ Disaster recovery

◇ Great performance

◇ Increased agility and flexibility

◇ Better managing of increased customer expectations

Further Implications

◆ Scalability
　　◇ Add more cloud service offerings in the future
◆ Requires maintenance and monitoring
◆ Train employees
◆ Develop end-user materials (tutorials, walkthroughs, etc)

Thanks!

Any questions?

Resources

https://about.bgov.com/news/dhs-unveils-enterprise-multi-vendor-multi-cloud-strategy/

https://hbr.org/1981/09/managing-human-resources

https://www.forbes.com/sites/forbestechcouncil/2021/03/12/why-migrate-to-the-cloud-the-basics-benefits-and-real-life-examples/?sh=55bd43c95e27

https://www.ibm.com/cloud/learn/cloud-computing#:~:text=Cloud%20computing%20is%20on%2Ddemand,services%20provider%20(or%20CSP).