WORK BREAKDOWN SCHEDULE

CLOUD AGGIES

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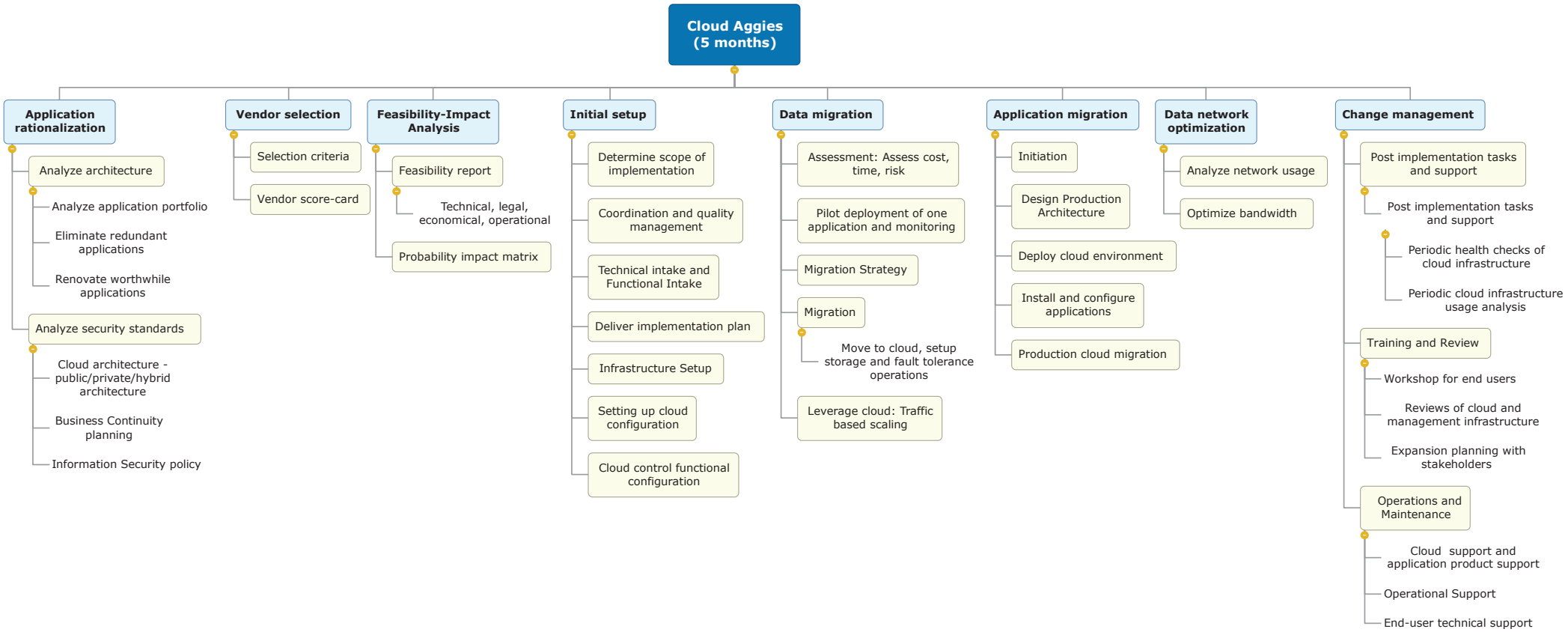
Cloud Aggies (5 months)
Application rationalization
Analyze architecture
Analyze application portfolio
Eliminate redundant applications
Renovate worthwhile applications
Analyze security standards
Cloud architecture - public/private/hybrid architecture
Business Continuity planning
Information Security policy
Vendor selection
Selection criteria
Vendor score-card
Feasibility-Impact Analysis
Feasibility report
Technical, legal, economical, operational
Probability impact matrix
Initial setup
Determine scope of implementation
Coordination and quality management
Technical intake and Functional Intake
Deliver implementation plan
Infrastructure Setup
Setting up cloud configuration
Cloud control functional configuration
Data migration
Assessment: Assess cost, time, risk
Pilot deployment of one application and monitoring
Migration Strategy
Migration
Move to cloud, setup storage and fault tolerance operations
Leverage cloud: Traffic based scaling
Application migration
Initiation
Design Production Architecture
Deploy cloud environment
Install and configure applications
Production cloud migration
Data network optimization
Analyze network usage
Optimize bandwidth
Change management
Post implementation tasks and support
Post implementation tasks and support
Periodic health checks of cloud infrastructure
Periodic cloud infrastructure usage analysis
Training and Review
Workshop for end users
Reviews of cloud and management infrastructure
Expansion planning with stakeholders
Operations and Maintenance
Cloud support and application product support
Operational Support
End-user technical support

WBS Dictionary:

WBS#	Activity/Task	Description
1	**APPLICATION RATIONALIZATION**	
1.1	Analyze Architecture	First we analyze which application architecture to build the project in
1.1.1	Analyze application portfolio	The first step in an Applications Rationalization effort is to analyze the state of the applications within the IT portfolio in order to understand their current condition, quantify their cost of operation and support, and measure their value to the business.
1.1.2	Eliminate redundant applications	Redundant applications are costly to support and provide little or no incremental benefit over proper use of a single application
1.1.3	Renovate worthwhile applications	This step identifies overlapping functionality and determines the strongest application which is to remain.
1.2	Analyze security standards	We'll analyze the security level of architecture based on kind of data to be stored in the cloud
1.2.1	Cloud architecture	Based on criticality of data, architecture will vary between private, public and hybrid cloud
1.2.2	Business Continuity planning	A business continuity plan is a plan to continue operations if a place of business is affected by different levels of disaster which can be localized short term disasters
1.2.3	Information Security policy	This documents sets forth information security standards
2	**Vendor Selection**	
2.1	Selection criteria	Define the standards upon which the vendors need to be selected
2.1.1	Defining cost criteria	Research about the fees for which the service is provided
2.1.2	Defining features criteria	Identify the set of minimum requirements and features expected out of the product
2.1.3	Defining support Criteria	Establish processes if the support is in house or make agreement with vendor to provide future support
2.2	Vendor scorecard	Prepare metrics to measure vendor performance with respect to quality, support, infrastructure and SLAs, and evaluate their performance

2.2.1	Evaluate vendors	Evaluate the vendor according to his performance against the set metrics
2.2.2	Select Vendor	Select the best vendor based on performance, budget and standards
3	**Feasibility and impact analysis**	
3.1	Feasibility report	Generate report to showcase the feasibility of the project against various standards
3.2	Probability impact analysis	Prepare probability impact chart that determines various impact if something fails and their chances of occurring in the project
4	**INITIAL SETUP**	
4.1	Determine scope of implementation	Determine and document scope of Cloud implementation together with customer and end users. Determine requirements and goals. Introduction meeting implementation team.
4.2	Coordination and quality management	Coordination and quality management on throughout all phases of the implementation. Determine the level of High availability required for the cloud storage
4.3	Technical intake and Functional Intake	Technical intake meeting; Infrastructure requirements (Hardware, OS, network/firewall, s/w requirement) for cloud setup). Functional intake meeting; Monitoring /Reporting/Alerting requirement. User/Roles/Groups/Rules model
4.4	Deliver implementation plan	Document requirements and goals. Document required functional and technical configuration. Build architecture Diagram. Update estimate planning based on implementation plan.
4.5	Infrastructure Setup	Install hardware systems. Installation of certified OS platform. General network configuration of hardware systems I.e. TCP/IP, routing, NTP, firewall access, SSH, HTTP and HTTPS access. Set up network access between systems and work place of end users. Optionally implementation of remote access
4.6	Setting up Cloud configuration for high availability	Enable Repository as per database high availability best practices. Configure repository database as Real Application Clusters (RAC) database with 2 or more nodes.
4.7	Cloud Control Functional configuration	Setup Cloud, SSA Admin and SSA User roles and users. Setup self-update to get new and updated capabilities when they become available between official releases. Setup mail server for Notification. Setup email address for yourself and other administrators. Test and setup other notification methods if required. Configure Hosts for Privilege Delegation. Setup Privilege delegation settings in Cloud Control. Setup named credential for cloud self service
5	**DATA MIGRATION**	

5.1	Assessment	Assess cost, time and risk of data migration. These factors take into consideration that Great Benefits is going to continue its operations even during the migration.
5.2	Pilot	Move data from one of the data centers to monitor performance and set standards for future migration.
5.3	Migration Strategy	Decide on the migration strategy – based on data centers' location/type of cloud/data size.
5.4	Migration	Perform migration according to agreed standards.
5.5	Leverage cloud	Traffic based scaling for future enhancements.
5.6	Monitor and Optimize	Determine utilization patterns, performance and response times
6	**APPLICATION MIGRATION**	
6.1	Initiation	Discover and document groups of users, and the pattern of their use. Put in place a trouble ticketing and issue resolution processes.
6.2	Deploy cloud environment	The first part of the cloud environment to be laid down is the structure of the virtual network. Create individual virtual machines and attach them to their respective storage units. Update the name servers to resolve the newly created VMs through the network gateways.
6.3	Install and configure applications	Install and configure the application server software on the cloud servers. Cloud providers frequently do this through automated deployment of templates. Configure the application servers and tools as specified
6.4	Production cloud migration	Hold a first formal checkpoint meeting shortly after migration to assess any large-scale issues that need additional project plans and resources. This meeting ends with a decision: has the system reached sufficient stability and productivity that this is now "business as usual?"
7	**DATA NETWORK OPTIMIZATION**	
7.1	Analyze network usage	Analyze network performance to determine enhancement requirements.
7.2	Optimize bandwidth and ensure high availability	Optimize bandwidth to accommodate increase in users/data.
8	**Change Management**	
8.1	Change management	Cloud infrastructure monitoring periodic basis and realigning quotas/policies and pool infrastructure with business priorities

	and consolidation	
8.2	Training and Review	Periodic training sessions for end users and Admins on cloud infrastructure and Monitoring/Administration capabilities. Periodic reviews of Cloud and Management infrastructure and expansion planning with stakeholders and project team
8.3	Operations and Maintenance	All of the effort required to provide operational support, maintenance for system hardware and utilities, network operations, and technical services

Table 1: WBS Dictionary