Cloud PlayBook – Assessment Framework

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ABSTRACT

Cloud computing is a modern ways of computing ,storage and network where all services like server , storage and network are virtulized. It also supports reliability , scalability and performance. All resources accessed with help of internet. The charging model based on pay-per-use cost model

assessment is an important step/phase in Cloud Computing . This phase helps to identify right cloud service providers , identify right set of application to be migrated in cloud domain , security issues , migration etc.

This Paper is an assessment framework supporting the Business finding components of the Cloud Playbook. The confirmation/information is needed to finish the Cloud Playbook Business finding module can be used stand along as an assessment deliverable/output , as an input into a Cloud Playbook Strategy Development Module

1. First appearance of cloud playbook

1.1 What is a "Playbook?"

A playbook is a epistemology model/system/framework which more focused on a specific technology, a roadmap or an technqie, or implementation style. A playbook is made of blueprints , methods , best practices , techniques which results in win-win situation in projects or sports

As a par of example – East

Consider the West sea-shore behavior in paid sea-volleyball. The west sea-shore behavior is an behavior strategy implemented by little/short , accurate passing balls from one-player to another player. This approach helps to create well-defined defense approach and increases chances for goals. This patterns helps to increase timing accuracy , deriving different patterns , which replace traditional methodology . This helps increase upto 80% accuracy.

1.2 Why a CLOUD Playbook?

A cloud playbook is well prepared methods/techniques that will be in useable , accessible , scalable and its provides a clear goal of tactics and leading to successful outcome as a successful player

The cloud Playbook is made of for phases . It is also contains set of actions in each phase . This turned into successful for mission-critical cloud projects to define blue prints for business This tactics will lead to

- **Backing Cloud Blueprints/strategy and outlining/planning** : It helps business to avoud to get trap of strategic approach based assumptions. This provides recursive , repetitive methodology/techniques to define correct and prepare cloud-blueprints. This also helps in sprint based cloud planning or we can define Proof of concept before actual implementation of projects

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- **Regulate business use cases to a Cloud design:**

  It provides a arrangement between cloud playbook and cloud implementation of mission critical projects . This also identifies Business barriers/challenges such as planning , articulation of clear definition of business definitions and outcomes of cloud projects

- **Educate and notify decision making processes**: This framework educate and notify decision process about end-to-end your particular organization. It also guides which steps you need to follow in your projects . It also identifies any new process if it missing in existing process. This also helps to add /delete/modify existing process in cloud playbook framework. This framework is recursive framework.

- **Backing on Solution Architecture and Software Engineering pathway**: cloud reference model will boost with help of cloud computing playbook. This provides very depth s a sound Enterprise Architecture methodology/technique for the awareness of leveraging , modeling , architecture and patterns of cloud This playbook , the Cloud Playbook will safeguard loyality to an Solution architecture and software engineering

2. Structure of the Cloud Playbook

This framework i.e cloud playbook is consists of four components
- Cloud business finding/discovery
- Cloud blueprint development
- Cloud Demonstration or crucade
- Cloud enforcement/implementation

Above four modules provides easy , scalable and end-to-end implementation of cloud projects

Cloud Business findings/discovery

This phase provides a ground for cloud analysis/assessment phase to take decision/find necessary blueprint and practical context based on successfully cloud strategy developed. The Cloud Business Discovery module can be used as a stand-along assessment methodology this is initial a step for development cloud blueprint/strategy

Cloud Strategy progress/development
This phase provides the Cloud blueprint and roadmap . This methodology provides a ground for rapid, business-oriented cloud roadmap that results into business success/. This strategy based on cloud business finding/discovery

Cloud Demonstration or crucade
This phase provides gurantee that cloud reoadmap developed in cloud playbook is practical and achievable . Demonstration of resources is gives signal to begin formal beginning of cloud projects. This phase also provides some training to all stakeholders including developers, architects and supports

Cloud enforcement/implementation
This phase provides a recursive steps/phases to support development/deployment of cloud based project based on cloud blueprint and roadmap This phase The Cloud Implementation phase guarantee placement/mapping to cloud blueprint and helps to minimize risk of cloud projects

3. Cloud Business Discovery Module
3.1 Introduction
The Cloud Business Discovery phase of the Cloud Playbook provides the basis for a Cloud assessment phase to obtain the necessary strategic and operational context upon which a successful Cloud strategy can be developed. The Cloud Business Discovery module can be used as a stand-along assessment methodology or as the first step of a Cloud Strategy methodology. The CloudBusiness Discovery phase of the Cloud Playbook is illustrated green shading.
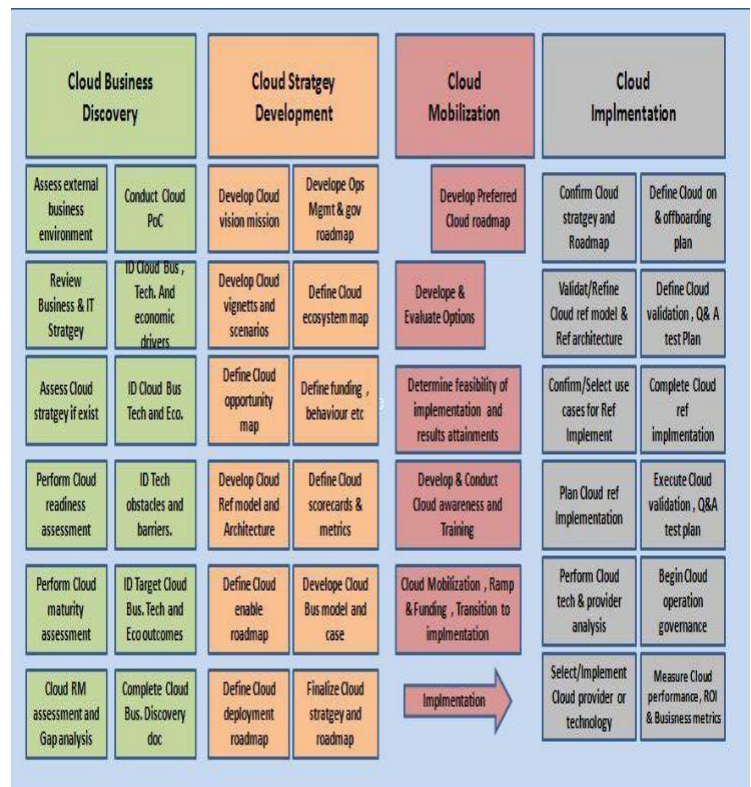
4. How to Use the Cloud Playbook Business Discovery Module

We need to follow instructions/guidelines for use of cloud playbook business finding/discovery module

- Independent Cloud Assessment Framework
- Cloud maturation and willingness/readiness framework
- Fore-runner to cloud bluemap development tasks
- Timely re-assessments during every phase of cloud projects

The template provides guidelines for gathering of appropriate data that will support a robust, business or

Assignment/business aligned Cloud blueprint architecture, and execution.

The Cloud Business Discovery component can be used at an Enterprise level, at a project aligned, for an Infrastructure or data center project, or at a program manager

In cloud playbook business finding, We need to follow suggested pre-phases
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Pre-phase 1. Identify foundation purview of Cloud blue-print

A demanding Cloud Playbook pre-phase is to establish a foundation activity(business) scope for your Cloud blue-print and guideline . In this pre-phase we need to understand needs of a specific firm , department, firm and office this also helps to design Cloud blue-print We need to identify importants teams/parties of our cloud enterprise program and check that our cloud blueprint including all requirements/needs of business. This framework must align and consolidate common and different interests and needs

.

Pre-Step 2: Identify Cloud Stakeholders in the organization

A important foundation pre-step to the Cloud Business finding components is to identify the key Cloud parties in your companies by role and title. Documenting key stakeholder will help ensure your Cloud strategy will support the business and technology interests of the enterprise, while prioritizing important needs/requirements and managing conjecture. Please refer below with respect to documentation

Cloud Stackholders	Oraganization stakeholders	Cloud goals and objectives	Cloud concerns and Risks	comments
Business unit executive				
CIO				
DISA				
AMC				

Before we beginning cloud business finding process ,, we need share documentation with cloud parties/stakeholders

4.1 Assess External Business Environment

Purpose: This section gathers and summarized external environmental context as inputs into the Cloud Business Discovery Module. The External Business Environment assessment provides macro level context to facilitate an accurate and appropriate Cloud Strategy.

Assessing the external business environment involves the following types of activities:

- Review external busyness and economic conditions
- Review and summarize external technology drivers and conditions
- Review and summarize external mission, security and national defense conditions
- Review and summarize external Federal Government, DoD and Intelligence conditions
- Summarize External Business Environment Findings

4.2 Review Business/Mission and IT Strategies

Purpose: This section summarizes current business, mission and Information technology (IT) strategies as key inputs into the Cloud strategy. This review provides key strategic context for Cloud computing.

The following activities are performed in this sub-components

- Review and summarize current Business and Mission Strategies, Goals and Objectives
- Review and summarize IT Strategy
- Include SOA Strategy and alignment
- Include Data strategy and alignment
- Include Enterprise Architecture (EA) strategy, process and alignment
- ID any potential gaps, weaknesses
- Summarize Business, Mission and IT strategies

4.3 Assess Cloud Strategy (If one exists)

Purpose: This section summarizes current business, mission and Information technology (IT) strategies as key inputs into the Cloud strategy. This review provides key strategic context for Cloud
The following activities are performed in this sub-components

- Assess Cloud strategy, if one exists
- Determine completeness of Cloud strategy
- Evaluate feasibility of Cloud strategy
- Evaluate technical soundness of Cloud strategy
- Evaluate business and financial viability of Cloud strategy
- Summarize Cloud Strategy Findings

4.4 Perform Cloud Readiness Assessment

Purpose: This section summarizes evaluates current organizational readiness for Cloud based on its experience and relative success with adjacent and related technologies.

The following activities are performed in this sub-components

- Determine Cloudreadiness based on experience with related initiatives and technologies
  o Virtualization technologies
  o Data center consolidation o Infrastructure outsourcing o SOA enablement
  o Distributed Application, Services and Infrastructure Models and Architectures

- Determine Cloud business/mission readiness based on priorities and imperatives
- Determine Cloud economic/financial readiness
- Determine Cloud technical readiness based on current technical imperatives and priorities
- Summarize overall Cloud Readiness

4.5 Perform Cloud Maturity Assessment (Using Cloud Adoption Model)

Purpose: This section summarizes relative Cloud maturity based on the Cloud Adoption Model and based on the evaluation of Cloud Readiness in section 2.4.

The following activities are performed in this sub-components:
- Where is the organization on the Cloud Adoption Lifecycle model?
- Does the organization have any POC or pilot project experiences to draw from?
- How mature is the organization by Cloud-RM submodule?
    - o Cloud virtualization maturity o Cloud OS maturity
    - o Cloud Platform Tier maturity
    - o Cloud business tier/SaaS maturity
- How mature is the organization in defining SLAs?
- How mature is the organization in monitoring and enforcing SLAs?
- How mature is the organization with co-sourcing, outsourcing models?

4.6 Conduct Cloud Reference Model Assessment and Gap Analysis

Purpose: This section is a brief assessment of the organization's maturity against the dimensions of the Cloud-RM . This section also highlights key gaps in the Cloud-RM framework.
The following activities are performed in this sub-components:
- Cloud Enablement Model assessment and Gap
- Cloud Deployment model Assessment and Gap
- Cloud Governance and Operations Model Assessment and Gap
- Cloud Ecosystem Model Assessment and Gap
- Overall Cloud-RM Assessment Summary

2.7 Conduct Cloud POC/Pilots for Early Learning

Purpose: This section summarizes any proof of concept (POC) or pilot project activities performed by the organization, as well as key lessons learned.

The following activities are performed in this submodule:
- Has there been any Cloud POC/Pilot project activity?
- Describe any relevant Cloud POC/Pilot project activities, their focus or emphasis, and outcomes
- What business, mission, or technical problems were addressed by the POC/Pilot?
- Describe any positive outcomes from the POC/Pilot

- Describe technical challenges or shortfalls experienced from the POC/pilot?
- What key take aways can be leveraged from the POC/Pilot?
- Summarize any Cloud POC/Pilot experiences

4.8 ID Cloud Business, Mission, Economic and Technology Drivers

Purpose: This section summarizes key drivers for Cloud for this organization. Key areas of focus include business drivers, mission drivers, economic/financial drivers and technology drivers.

The following activities are performed in this sub-components:
- Identify key business drivers for Cloud
- Identify key mission drivers for Cloud
- Identify key economic and financial drivers for Cloud
- Identify key technology drives for Cloud

4.9 ID Cloud Imperatives (Fix it or Else Issues)

Purpose: This section identifies key Cloud imperatives for the organization. Imperatives are the key "fix it or else" challenges that can be completely or partially solved through the successful implementation of Cloud

The following activities are performed in this sub-components:
- Identify key business and mission imperatives
- Identify key financial and economic imperatives
- Identify key process/CONOPs imperatives
- Identify key technology imperatives
- Summary the Cloud Imperatives list

4.10 ID Cloud Barriers/Obstacles and Risks

Purpose: This section identifies Cloud obstacles and barriers that may stall or limit the effectiveness of the Cloud strategy for the organization. Cloud barriers and obstacles can take any form, and can be internal or external. The focus should be on internal barriers and obstacles, and how these can be overcome to enable successful Cloud implementation.

The following activities are performed in this sub-components:
- Identify Cloud barriers or obstacles
- Identify possible Cloud risks
- Distinguish whether barriers/obstacles are internal to the organization or external
- Prioritze Cloud barriers/obstacles
- Define potential mitigations or solutions for each Cloud barrier/obstacle
- Define potential mitigations for Risk areas identified
- Summarize Cloud Barriers/Obstacles and Cloud Risks section

4.11 ID Cloud Goals or Outcomes

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Purpose: This section summarizes key goals and outcomes that are desired or anticipated through
successful realization of the Cloud Strategy and Architecture. This review provides key strategic
alignment context for Cloud.

The following tasks are performed in this Sub-components:
- Summarize key goals for the enterprise considering cloud technology
- Provide any operationalized goals if available, e.g. we will achieve 30% reduction of servers,
- saving $XXX per year, by October 2010.
- Identify business and mission goals/outcomes
- Identify architecture and technology goals/outcomes
- Identify economic/financial goals/outcomes
- Identify personnel goals/outcomes

4.12 Complete Cloud Business Discovery Documentation and Recommendations

Purpose: cloud strategy development tasks inputs are taken
From cloud Business finding

The following tasks are performed in this sub-components:
- Compile all Cloud Business findings documentation
- Assessment and rectify Cloud Business findings full-filled with key parties
- Document Cloud risk areas for the enterprise
- Make key recommendations to key Enterprise stakeholders

5. Reference

1 http://www.clabbyanalytics.com/uploads/CloudandISM Final.pdf
2 http://www.soasta.com/
3 Cloud Computing wiki - *en.wikipedia.org/wiki/Cloud_computing*
4 http://www.usenix.org/event/hotcloud10/tech/full_ papers/Wood.pdf