Retrieval of Universal Data From Cloud Using Web API2

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Abstract - “Cloud” computing builds on decades of research in virtualization, distributed computing, utility computing and more recently networking, web and software services. It implies a service-oriented architecture, reduced information technology overhead for the end-user, great flexibility, reduced total cost of ownership, on-demand services and many other things. Our experience with VCL technology is excellent and we are working on additional functionalities and features that will make it even more suitable for cloud framework construction. However VCL has set a lower bound on the end-to-end connectivity throughput, roughly at the level of DSL and cable modem speeds. At any point in time users work must be secure and protected from data losses and unauthorized access. Our research work is based on Azure in which a metro app is to be implemented having feature of platform independence, supporting web as well as desktop application and work on hybrid cloud. A web service that provides resizable compute capacity in the cloud.

Keywords - WEB API2, Azure Configuration, Cloud Computing, Balance Loading

I. INTRODUCTION

Cloud computing, often referred to as simply “the cloud,” is the delivery of on-demand computing resources everything from applications to data centers over the Internet on a pay-for-use basis. Elastic resources Scale up or down quickly and easily to meet demand. Metered service so you only pay for what you use. Self service All the IT resources you need with self-service access. “Cloud” computing – a relatively recent term, builds on decades of research in virtualization, distributed computing utility computing and more recently networking, web and software services. It implies a service-oriented architecture, reduced information technology overhead for the end-user, great flexibility, reduced total cost of ownership, on-demand services and many other things.

“Cloud computing” is the next natural step in the evolution of on-demand information technology services and products. To a large extent, cloud computing will be based on virtualized resources. An increasing number of web applications are now hosted in cloud infrastructure such as Amazon web services. Attributes of cloud computing Resource pooling: The cloud enables your employees to enter and use data within the business management software hosted in the cloud at the same time, from any location, and at any time. Rapid elasticity: If anything, the cloud is flexible and scalable to suit your immediate business needs. You can quickly and easily add or remove users, software features, and other resources.

II. LITERATURE REVIEW

Yen Chun Hsu[1] propose the Micro App architecture that help address the difficulty in dealing with the non-uniformity. Micro App splits a web application into multiple micro applications. Each micro application encapsulates a port of the code and data with the same level of security and integrity requirement. The micro applications will then be deployed to corresponding infrastructures that satisfy the respective requirements. Micro App provides an RPC mechanism to allow control flows across micro applications. The architecture can be transparently applied to existing web applications and allows an application to effectively adapt to the cloud environment.

Li, X. Yang, et al. [3] Cloud Computing measures the elastic computing, persistent storage, and networking services offered metrics that directly reflect their impact on the performance of customer applications. Williams et, al [4] They discusses some current solutions. They describe upcoming research work in cloud as regard data security and privacy protection issues Heffner R. et al. [11] talked about the need to automate API key management in the past with the number of APIs we are using, to reach the level of security we will need, the lower level of keys will need a global refresh and management process. Nikaien N. et al. [5] API service composition is about taking the basic building blocks of any web API, the URL, path, and VERBS (ability to get, add, update, and delete), and put them into as many different configurations as you think makes sense,. API service composition is all about taking your APIs. Envas D.et al. [12] Cloud computing is based on several other computing research areas such as SOA, virtualization, utility computing and grid computing. Cloud computing is a type of computing that relies on sharing computing resources like memory, processors, database and applications, Deelman et al. [14] evaluate the cost of Amazon EC2 by porting a real-life astronomy application to the cloud and execute it using different resource provisioning plans. They conclude that the cloud is a cost-effective option since the scientific application provider does not need to buy an entire cluster for a few runs of the application. Many clusters are underused as the hardware quickly becomes obsolete. The cloud solves this problem as it is a responsibility of the cloud provider to keep upgrading the hardware and provide an upto-date service to the users. In our research, we compare Azure and EC2 and evaluate the relation between cost and performance of both clouds.
III. PROBLEM FORMULATION
In our research work we face the problem in already built app.:-

The main problem was not support for hybrid cloud, the app were support only on public and private cloud, and also it doesn’t use the rest api, and the app was platform dependent.

So by keeping these problems in mind we make an app which is generally called as metro app and includes a feature of platform independent, the app can be access from the mobile as well as the web interfaces. Replication with SaaS services.

IV. CONCLUSION

Our research work is based on Azure in which a metro app is to be implemented having feature of platform independence, supporting web as well as desktop application and work on hybrid cloud using WEB API2. We evaluated the Windows Azure platform as a platform to run general Instance applications. We showed how to port applications written for the UNIX programming model to Azure and compared their performance to a real machine and an Amazon EC2 instance with similar characteristics. We measured the execution time and examined the efficiency of the cloud solutions in terms of performance and cost with a new metric. When we compared the performance of general instance application with real machine and azure then performance is almost double on azure than real machine. Cost factor: cost on azure is high than real machine. Execution time: application execute fast on azure server than real machine.

Efficiency of azure server is greater than real machines it is so because azure server not get hanged and it always store a duplicate copy of data on its local primary server.

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VI. REFERENCES
