

# Autonomic Management of Cloud Resources to meet Service Level Agreement

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**Abstract**—Several studies have used either Autonomic Resource Management (ARM) or Service Level Agreements (SLA) to manage cloud resources. To the best of our knowledge, no study has been conducted on SLA with ARM to maintain Quality-of-Services (QoS) features. Therefore, this study highlights the applications of ARM, which focused on providing cloud services automatically for cloud consumers. Prior research has shown that QoS-aware methods for enhancing cloud performance. Additionally, QoS maintains security at the same time, which depends on ARM and SLA. Thus, this study contributes to investigating dynamic autonomic Service-based applications (SBAs) in the cloud, which has not been addressed in previous studies. As a result, QoS in cloud security management did not cover self-protection. Consequently, this research suggests using ARM with SLA to maintain QoS techniques for providing self-protection requirements in a cloud environment.

**Keywords**—SLA, Cloud computing, Autonomic, management

## I. INTRODUCTION

Cloud computing is an infrastructure for an accessible shared pool of configurable computing resources over the internet. These resources are servers, storage, services, and applications that can be provisioned and released rapidly with minimal management effort and service provider involvement in the cloud environment[1]. However, the cloud provider should offer an infrastructure that makes the cloud resources adapt to any environmental changes and automatically preserve the quality of the services (QoS)[2]. This infrastructure, called autonomic infrastructure or self-management infrastructure, aims to automatically manage the cloud resources and respond to any business requirements based on Service Level Agreements (SLA)[3]. Thus, the self-management of the resources will enhance resource utilization performance and minimize their cost while ensuring the reliability and availability of the service[4]. The emergence of using autonomic management will require the autonomic manager or autonomic MAPE (Monitor, Analyzer, Planner, and Executor) loop[3]. This loop collects monitoring data from cloud resources to analyze them while generating planned changes to be executed on managed cloud services to correct violations (self-healing and self-protecting) or to aim for a new state of the system (self-configuring and self-optimizing)[2] [3]. However, managing the resources automatically will not fulfill the QoS alone without maintaining the SLA. The Service Level Agreement (SLA) refers to a legal contract

between the provider of the service and the consumer who is using this provided service[5]. Therefore, SLA can be utilized for measuring and reporting the performance of the cloud-consumed resources by the users [5]. Although some studies [4] [18] have the attention of either reaching autonomic management, other studies [3] [8] ignore the SLA that helps to fulfill QoS requirements. Thus, in this paper, we present the contribution of using the autonomic management approach with considering the SLA simultaneously for achieving QoS requirements that help resource provision with high quality. Besides, one of the QoS-aware autonomic techniques is considered in this study and has limited investigations in the previous studies called Self-protection. The rest of this paper is structured as follows. Section II is a background of the autonomic cloud resources and meeting the SLA concepts. In Section III, we review the related literature. In section IV, industry tools are provided to support this domain. Finally, our conclusion and future work are presented in Section V.

## II. BACKGROUND

### A. Autonomic Management of Cloud Resources

Autonomic cloud computing can be one of the options for optimal resource allocation by meeting user QoS needs automatically and healing unanticipated errors at runtime without human intervention [6]. Additionally, autonomy refers to a service's ability to control itself in response to its surroundings[7]. The autonomic system maintains system stability in unpredictable situations and adapts swiftly to new environmental conditions such as software and hardware failures. As a result, an SLA-aware autonomic resource management technique is required, which considers all critical QoS criteria such as availability, cost, latency, and execution time, among others [7]. Indeed, autonomic computing systems can be widely employed for dynamic resource management in the face of changing workloads, reducing the need for human intervention in resource management. It can react to changes and recommend appropriate steps before SLA violations occur [8].

To obtain autonomic computing, IBM proposed the autonomic manager as a reference model for the autonomic controller. IBM proposed the autonomic manager as a reference model for the autonomic controller, composed of four fundamental components that monitor cloud resources, evaluate monitoring data, plan, and execute configuration

# Autonomic Management Of Virtualized Resources In Cloud

**G Psacharopoulos**



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