CPU Usage Prediction

Architectual Decision Document

Business Justification

1. Large Business Critical Databases reside mostly on High-end Shared Unix Platform

2. Due to the shared nature of work-load between multiple Virtual Machines, the servers
Are succumbed to performance issues. The CPU or IO resources can become saturated.

3. Any bottle-neck in the resources availability can impact Business and cause financial loss

4. If there is a way to predict problems (in this case shortage of resources), it is possible to
take preventative measures saving time, effort and financial losses

5. In this Design we will only focus on CPU resource prediction

Design Parameter

The focus of Prediction for this design project is CPU only.

Input Data

On all the Virtual Machines, we do have CPU and IO data available on the servers and also on the Monitoring portal.

Examples: Nmon data, ITM6, Splunk

The Commands used typically are: Sar, vmstat, topas

Create a Model - Strategy