Capacity Planning & Application Resiliency Discussion

Wednesday, April 21, 2021

3:00 PM

**Attendees:** Seun Mafi Bill Mullins, Michael Bavasso, Dan Benner, Ashish Joshi, Shekhar Kumar, Daniel Rodrigues, Padmalatha Ajit

**Date:** 04/21/2021

**Location:** WebEx

**Bill**: Our plan is to roll out in small bits. So no final plan, we will measure as things unfold. Oracle basis is on Prem.

**Michael:** How are you determining capacity?

**Bill**: We meet with DBA to know how much space we need on the database. For our file storage, we use the basic tools.

**Michael:** Do you have DBA assigned?

**Bill:** We use enterprise DBA

**Michael:** Any load distributor? Data base storage capacity.

**Bill:** None that I am aware of right now.

**Michael**: Number of members/users

**Bill:** It will grow up to 500 users. Plan is not to exceed 800 at any point. Right now, most people are being trained on it. We have under 25 percent capacity.

**Michael:** It was shown the growth of this system lies

**Bill:** They don’t use the system directly. They are able to see the state of their audit. With business and digital front end.

**Michael:** Our focus being your system SDA. Upstream feeding into different locations. Etc.

- You don’t have a formal plan but evaluating from time to time how much storage you need.

**Bill:** We don’t know how the DBA are allocated. But we understand most of that will be handled offline. Then check to see if there are any risk to accommodate that

**Michael**: Is your storage virtual or hard drive.

**Bill**: I don’t know that honestly.

**Michael:** Storage management. Is that part of your overall plan?

**Bill**: We set up a monthly measurement of the database to see and make sure we will not extend beyond our limit. We monitor to ensure we don't have any concerns

**Padma:** The DBA are the admin, When we are getting closer. We will be monitored, and we will respond. From the application side, we closely monitor our database. Closely monitor and work with our DBAs. Should we need to purchase additional space.

A DBA monitors closely. They receive notification closely. We have a testing performance environment. We do monitor by an application team - the support team that will support production.

**Michael:** Monitoring certain sites?

**Padma:** If it’s a 1 TB database, once it hits half Tb, then we are cutting close. We monitor this closely. We work closely with the application team. When it gets closer, we add more storage.

* Good question to ask DBA to know how they closely monitor.

**Michael:** Group of DBAs you reach out to?

**Padma:** Yes. They have a run team and build team. If there is a production enhancement. Production support is handled by a DBA team and they handle these activities.

**Michael:** As far as metric? You seem to review it live. Are these reports, such as weekly?

**Padma**: Application is still in phase 1. We have not created any metrics. We rely on metrics from DBA. We also have **Guardian** - our monitoring tool.

**Michael:** Is there any performance testing being done?

**Padma:** We do performance testing. In phase2. We are doing some volume testing and performance testing of Batch jobs.

**Michael:** Done by the DBA and production team?

**Padma:** It is being done by Dev team. We involve other team in DBA,

**Michael:** Do you know if performance testing is done on a routine basis?

**Padma**: Yes. It is done on each release.

**Padma:** Volume is pretty low at this point. We will need. 1tb. We will need this for maybe 2-3 years. 4000 patients - by third quarter. We aren't expecting anything to impact in the next 2 years.

**Ashish:** Is there any data synchronization?

**Bill:** No idea from us on that one.

**Michael**: As far as infrastructure support. Is that managed by the infrastructure team? Data recovery and back up, Is that managed by your team?

**Padma:** Data recovery will be all managed by the DBAs.

**Michael:** Who is your DBA?

**Padma: Sudhakar Sunkara.**

**Michael:** From an application perspective. Do you have a disaster recovery plan separate from what infrastructure will do.

**Padma:** Yes.

**Michael:** We may be requesting that plan. We will send a request on Auditboard most likely. The DR plan. Fail over plan etc.

**Jeanne**: I can provide that plan.