Zones and Repositories

Overview

The purpose of this section is to explain the concept of Zones and Repositories and how these objects interact to facilitate a flexible storage solution in TapeTrack.

For illustration purposes, rather than discussing a vault we will use the analogy of a restaurant.

Our Restaurant

Our restaurant is called GazillaBytes, and it has 5 rooms. Each of our rooms is named after a color.

We have:

1. The Red Room which has seating for 200 people in a configuration of 20 tables each with 10 seats.
2. The Blue Room which has seating for 200 people in a configuration of 20 tables each with 10 seats.
3. The Green Room which has seating for 200 people in a configuration of 20 tables each with 10 seats.
4. The Orange Room which has seating for 500 people in a configuration of 25 tables each with 20 seats.
5. The Purple Room which has seating for 300 people in a configuration of 30 tables each with 10 seats.

Our bookings

When people book at our restaurant, they book as a company and they book our tables out indefinitely (we serve Fortune 100 companies in this analogy).

- Walmart need seating for 210 people, so we will give them seats 1 through 210 in the Purple Room.
- Berkshire Hathaway need seating for 190 people so we will give them seats 1 through 190 in the Red Room.
- Apple need seating for 250 people and and don't mind dining in 2 rooms so we give them 200 seats in the Blue Room, seats 191 through 200 in the Red Room, and seats 211 through 250 seats in the Purple Room.
- Exxon Mobile need 400 seats so we give them seats 1 through 400 in the Orange Room.
- McKesson need 80 seats so we give them seats 1 through 80 in the Green Room.
- United Health Group need 50 seats so we give them seats 81 through 130 in the Green Room.
- CVS Health need 55 seats so we give them seats 251 through 300 in the Purple Room and seats 131 through 135 in the Green Room.
- General Motors need 80 seats so we give them seats 136 through 200 in the Green Room and we give them seats 401 through 415 in the Orange Room.

- AT&T need 200 seats so we give them seats 416 through 500 in the Orange Room, and we put 150 of their people on the wait list until we can build a 2nd restaurant.

Seating

Each of the diners is assigned a seat, relative to

The Analogy

In this analogy each of the rooms represents a Zone, and each of the bookings represents a Repository.

A booking can occupy one or more rooms, and a room can be occupied by one or more reservations.

Further, let's consider each of the diners, and how they are assigned to a table. In the a

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