

Conceptual Design Example

Scenario

Quality Cakes (QC) is a fictitious home business, it is owned and run by one pastry chef. QC supplies traditional and custom cakes for weddings, birthdays, and other special events.

- QC promotes and receives orders for their cakes via an online store.
- QC places high importance on their online web presence being uninterrupted with reasonably fast response times.
- QC's small, on-premise, private cloud consists of 2 physical servers, a 4 bay NAS, and an ISP router. Both servers run Type 2 hypervisors. A small fail-over system is installed to manage web servers, VMs, and physical servers that have crashed.
- Normally QC's private cloud handles workload. However, as its scaling capability is insufficient to handle exceptional workload cases, it is configured to burst-out to an off-premise cloud.
- QC's web site depends on a database application. This application provides data such as cake descriptions and images, customer invoices, and generates PDF reports. It stores data such as customer details, orders, and comments.

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