DevOps Take Home Exercise

Contents

- 1 Folder containing:
    - 1 sample frontend application written in Angular
    - 1 sample backend microservice written in .netCore C# and uses SQL

- The application is intended to show a list of recent security incidents (sreenshot below)

Recent Security Incidents

#	Incident ID	Registered	Title	Affected Company	Description
1	0e050540-5fce-42af-88e3-c5467685a366	2017-12-12T06:59:41.3208707+01:00	Molestiae deleniti omnis et vitae.	Satterfield, Rodriguez and Rippin	Consequatur possimus voluptatum laboriosam accusamus et molestiae recusandae. Ducimus sapiente ut atque alias recusandae atque adipisci quasi. Ducimus error hic nesciunt deleniti dolor necessitatibus quia voluptatibus.
2	f449047b-2cd0-4665-920e-0283f096a7f3	2018-01-21T18:32:57.0908735+01:00	Omnis placeat ut nobis ad.	Schmidt - Von	Pariatur excepturi est quod dolorum dicta tempore aut doloribus. Ea quo nostrum est eos inventore mollitia repellat natus reiciendis. Rerum ipsa architecto cumque tempora commodi non aliquam.
3	28ad2636-2bbd-4502-9cd2-d49cb7256dc7	2017-08-25T23:02:28.2187648+02:00	Reiciendis mollitia illo ullam esse.	Hintz, Koss and Wisozk	Eius veritatis doloribus eveniet nihil voluptates ducimus corrupti. Est rerum est porro accusantium et. Rem in ipsa reprehenderit est quod vero animi consectetur odio. Enim explicabo dicta omnis sit dolores et omnis nobis. Qui et temporibus dolor officiis occaecati similique ducimus aut velit. Repudiandae eligendi qui.
4	e8882c93-e60d-4cfe-ab43-20839cbb2692	2018-01-30T13:01:25.2998663+01:00	Quia iure nihil voluptatibus qui.	Hyatt, Jacobs and Kuvalis	Quia molestiae voluptas omnis at voluptatem. Hic sit molestiae magnam laborum pariatur. Nostrum sequi vitae et.
5	422f2d27-9260-49fb-81f1-ab3f51923f2f	2017-11-16T05:39:14.7837491+01:00	Aut nam saepe quis deleniti.	Stracke, Olson and Friesen	Libero est delenti adipisci rerum. Iste nisi omnis sed quod magnam autem quia. Sed magnam repudiandae ut fuga id velit id asperiores. Rerum a necessitatibus sapiente aut ut eum saepe aliquam. Delectus quis accusantium est rem cupiditate eveniet.
6	6acb884d-754b-4feb-8222-311f62b19176	2017-03-28T23:09:26.9226591+02:00	Nobis consequatur omnis eaque error.	Hettinger Inc	Non labore repudiandae corrupti autem possimus est libero eum. Harum ex ea sed occaecati saepe placeat modi ut. Aspernatur voluptas praesentium officiis sit sunt quidem ad beatae. Itaque suscipit illo dicta.
7	72ddebe6-871b-4a8a-9d34-4052d23a166c	2017-11-29T05:45:19.4744064+01:00	Et saepe maxime vero excepturi.	Gulgowski, Gutkowski and Goldner	Corporis saepe quo neque. Accusantium vel ullam similique quo sunt omnis eaque sequi aut. Qui officia velit.

Your Job

The purpose of this exercise is to demonstrate how to setup the infrastructure in a deployed Azure environment **using code**. You can use whatever tools you want to do this (Chef, Puppet, Terraform, etc.). A few caveats for how the application should be deployed:

- Frontend is publicly available
- Backend Service is a microservice that is called by Frontend but is not publicly accessible
- AzureSQL database should not be publicly accessible

Reachable only by Backend Service

Reachable only by Frontend App

Publicly available
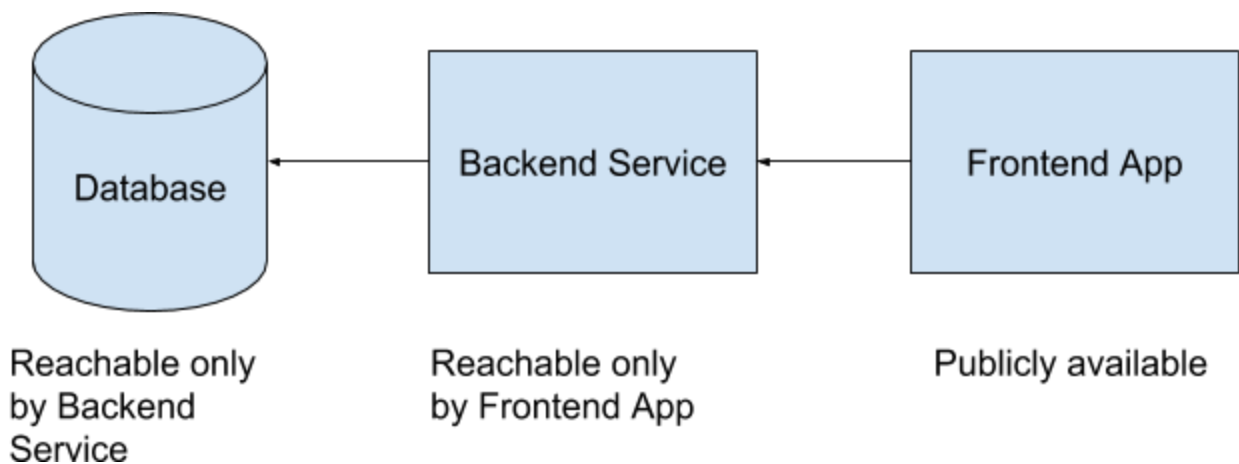
Don't worry about fancy DNS for any parts of the application, accessing it via IP or Azure DNS is fine. Feel free to use Azure PaaS Services(e.g. App Services).

What we expect in your deliverable:
- All the needed links to the actual infrastructure
- All the needed links to your code

Purpose of the Exercise

The purpose of the exercise is to understand how you approach the problem, the decisions you make in the infrastructure, and your ability to use code to accomplish things.

Please timebox your effort to 2 to 4 hours. An incomplete solution is not failing the exercise.