

PROBLEM STATEMENT

A Company is wanting to expand their infrastructure, and one of the initiatives is to create a scalable service fabric for their client facing web service. Create a service fabric cluster containing 1 node and deploy a web service application which will return a row from the dataset.

OVERVIEW

Microsoft Azure Service Fabric gives the user the ability to easily package and deploy applications and services. As well, Service Fabric clusters provide high scalability and reliability for these applications and services. Service Fabric is highly customizable. For instance, you can create a cluster that has multiple VMs each being a node, or you can have a single VM with multiple nodes attached. Applications can be deployed quickly once a Service Fabric cluster is created, unlike traditional deployments where a VM needs to be created every time.

STEPS

1. Install Service Fabric SDK
2. Create Service Fabric Cluster
3. Create sample application
4. Deploy application to Service Fabric Cluster
5. Run application web service

DATA

<https://catalog.data.gov/dataset/age-adjusted-death-rates-for-the-top-10-leading-causes-of-death-united-states-2013>

HARDWARE

Windows 7 64 bit on Core I5-6300HQ

SOFTWARE

- Service Fabric SDK
- Microsoft Visual Studio

LESSONS LEARNED PROS/CONS

- Customizable and fast deployment can alleviate the problems of standing up VMs for every need
- In my experience, can be a bit tricky to implement properly

Github link: <https://github.com/mck-isaac/azurefinal>