



Creating Highly Available And Scalable Application Using RavenDB

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Everyday Me



Public Speaking Level: -100





About RavenDB





Replication



Replication Query



```
using (var session = store.OpenSession())
{
    session.Store(new Animal()
    {
        Name = string.Format("{0} the {1}th", species, counter),
        Species = species
    });
    session.SaveChanges();
}
```



Replication – Set up



```
store = new DocumentStore()  
{  
    Url = "http://localhost:8080",  
    DefaultDatabase = "Zoo"  
}.Initialize();
```





Load Balancing





Conflict Resolution





Sharding



Sharding – Set Up



```
shards = new Dictionary<string, IDocumentStore>()
{
    {
        "Dog", new DocumentStore()
        {
            Url = "http://localhost:8080",
            DefaultDatabase = "DogsZoo"
        }
    },
    {
        "Cat", new DocumentStore()
        {
            Url = "http://localhost:8081",
            DefaultDatabase = "CatsZoo"
        }
    },
};
shardedStore = new ShardedDocumentStore(
    new ShardStrategy(shards).ShardingOn<Animal>(x => x.Species));
shardedStore.Initialize();
```



Sharding



```
using (var session = shardedStore.OpenSession())
{
    session.Store(new Animal()
    {
        Name = string.Format("{0} the {1}th", species, counter),
        Species = species
    });
    session.SaveChanges();
}
```



Questions?

