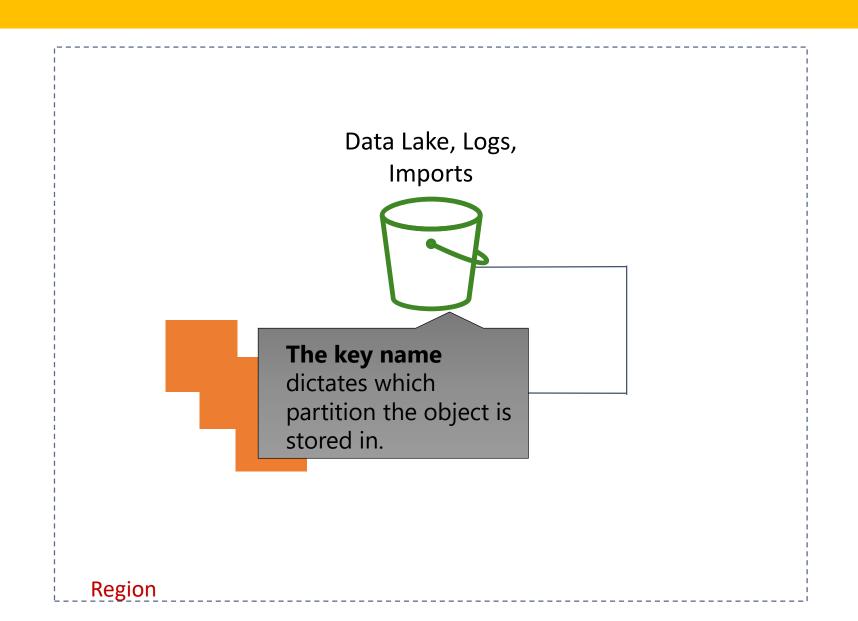


- If our requests are typically a mix of GET, PUT, DELETE or GET Bucket (list objects), how can we ensure consistent performance for a bucket?
- How do we avoid SlowDown exceptions?
- Add random hash prefixes to the object key



```
testbucketclaydesk/2019-04-03/vendor-1432/imports.json
testbucketclaydesk/2019-04-03/vendor-5044/imports.json
testbucketclaydesk/2019-04-03/vendor-2546/imports.json
testbucketclaydesk/2019-04-03/vendor-1983/imports.json
testbucketclaydesk/2019-04-03/vendor-1671/imports.json

""
Lexicographical
sequences introduces
a performance
problem by forcing

3658/imports.json
```

too much information

into too few partitions.

```
testbucket/2019-04-03/vendor-1432/imports.json
testbucket/2019-04-03/vendor-5044/imports.json
testbucket/2019-04-03/vendor-2546/imports.json
testbucket/2019-04-03/vendor-1983/imports.json
testbucket/2019-04-03/vendor-1671/imports.json
...
testbucket/2019-04-03/vendor-3658/imports.json
```

```
testbucket/7f03-2019-04-03/vendor-1432/imports.json
testbucket/fe99 2019-04-03/vendor-5044/imports.json

Random hashes
spread load evenly
across partitions for
better performance.

testbucket/cd48-2019-04-03/vendor-3658/imports.json

testbucket/cd48-2019-04-03/vendor-3658/imports.json
```

```
testbucket/2019-04-03/vendor-1432/imports.json
testbucket/2019-04-03/vendor-5044/imports.json
testbucket/2019-04-03/vendor-2546/imports.json
testbucket/2019-04-03/vendor-1983/imports.json
testbucket/2019-04-03/vendor-1671/imports.json
...
...
testbucket/2019-04-03/vendor-3658/imports.json
```

```
testbucket/7f03-2019-04-03/vendor-1432/imports.json
testbucket/fe98-2019-04-03/vendor-5044/imports.json
testbucket/dc77-2019-04-03/vendor-2546/imports.json
testbucket/ae52-201
testbucket/2f65-201
Random hashes improve
performance, but remove
predictable prefixes, making
testbucket/cd48-2019
search more difficult.

ts.json
```