

Access Redis Cache from Java Based Application

Step 1.Create a Application

Its easy to create it using Spring Initializr page ([Spring Initializr](#)) and then import it to Eclipse

Project
☒ Maven Project ☐ Gradle Project

Language
☒ Java ☐ Kotlin ☐ Groovy

Spring Boot
☐ 3.0.0 (SNAPSHOT) ☐ 3.0.0 (M1) ☐ 2.7.0 (SNAPSHOT) ☐ 2.7.0 (M2)
☐ 2.6.5 (SNAPSHOT) ☒ 2.6.4 ☐ 2.5.11 (SNAPSHOT) ☐ 2.5.10

Project Metadata
Group: com.rahul.example
Artifact: azureredis
Name: azureredis-demo
Description: Azure Redis Demo project for Spring Boot
Package name: com.rahul.example.azureredis

Packaging
☒ Jar ☐ War
Java: ☐ 17 ☐ 11 ☒ 8

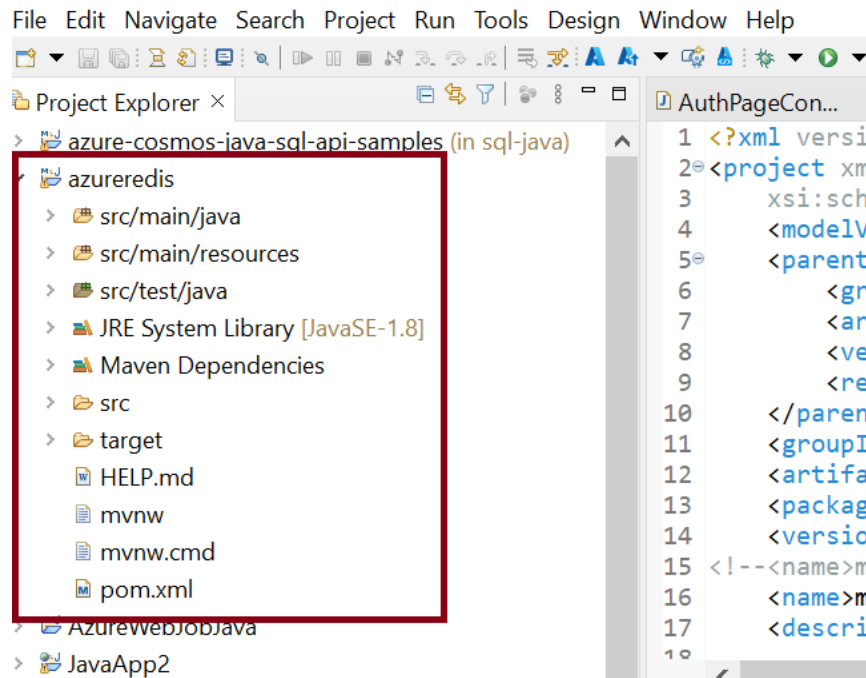
Dependencies
Spring Web WEB
Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container.
Spring Data Reactive Redis NOSQL
Access Redis key-value data stores in a reactive fashion with Spring Data Redis.

Buttons: GENERATE CTRL + G, EXPLORE CTRL + SPACE, SHARE...

Click on the **Generate** button to download the Project

2. Import the Project in Eclipse

Name	Status	Date modified
azure > redis > azureredis		
.mvn	✓	3/16/2022 10:00
.settings	✓	3/16/2022 10:00
src	☁	3/16/2022 10:00
.gitignore	✓	3/16/2022 4:00
.project	✓	3/16/2022 10:00
HELP	✓	3/16/2022 4:00
mvnw	✓	3/16/2022 4:00
mvnw	✓	3/16/2022 4:00
pom	✓	3/16/2022 4:00



3. Create a Redis cache on Azure

New Redis Cache ...

Basics Networking Advanced Tags Review + create

Azure Cache for Redis helps your application stay responsive even as user load increases. It does so by leveraging the low latency, high-throughput capabilities of the Redis engine. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *	Azure Pass - Sponsorship
Resource group *	(New) az-redis-202203

[Create new](#)

Instance Details

DNS name *	rahulredisdemo
Location *	Central India
Cache type (View full pricing details) *	Basic C0 (250 MB Cache, No SLA)

Once created

Allow Non SSL access

Make note of the marked entries - **Host Name & Key**

Microsoft Azure

Search resources, services, and docs (G+)

rahuireddisemo

Azure Cache for Redis

search (Ctrl+J)

Console → Move Delete

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Events

Tags

Access keys

Advanced settings

Scale

Cluster size

Data persistence

PREVIEW Identity

Essentials

Resource group (move) : az-redis-202203

Status : Running - Basic 250 MB

Location : Central India

Subscription (move) : Azure Pass - Sponsorship

Subscription ID : 2dd97a0-2cf3-478b-936a-fae749b7db0

Memory Usage

Host name : rahuireddisemo.redis.cache.windows.net

Ports : Non-SSL port (6379) disabled

Keys : Show access keys...

Best practices : <https://aka.ms/redis/t/bestpractices>

New features : <https://aka.ms/newfeatures>

Advanced settings

Save Discard

This cache instance can be upgraded to Redis 6 with add-ons that enhance developer productivity and ease of use. Upgrades cannot be reversed →

Allow access only via SSL

☐ Yes

☒ No allow non ssl

Non-SSL Port

6379

SSL Port

6380

3. Configure your custom Spring Boot App to use your Redis Cache

azure-cosmos-java-sql-api-samples (in sql-java)

azureredis

src/main/java

src/main/resources

static

templates

application.properties

src/test/java

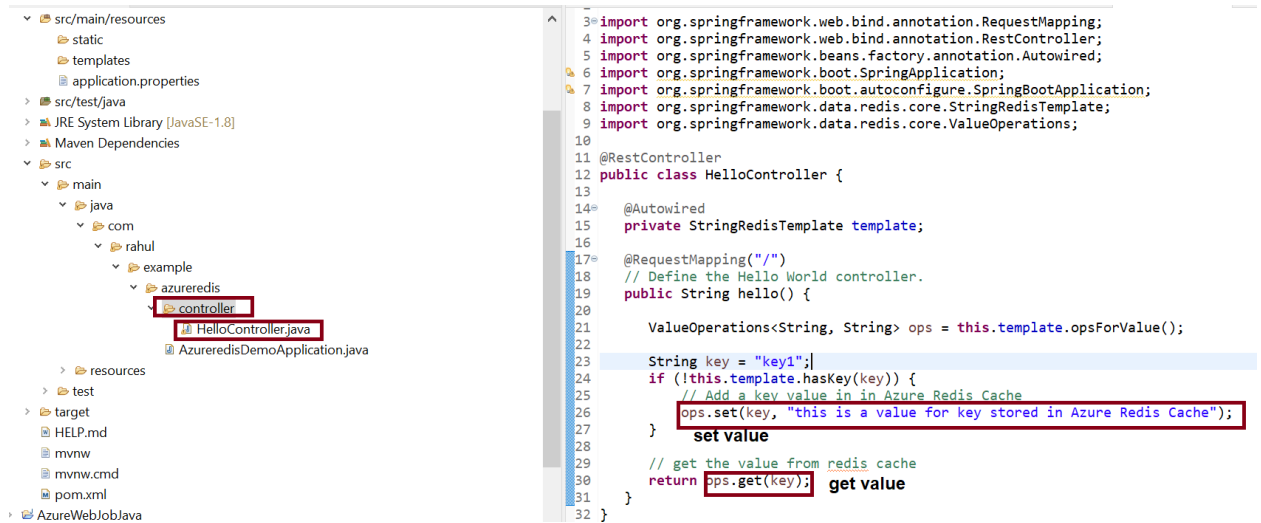
JRE System Library [JavaSE-1.8]

Maven Dependencies

```
1
2# Specify the DNS URI of your Redis cache.
3spring.redis.host=rahuireddisemo.redis.cache.windows.net
4
5# Specify the port for your Redis cache.
6spring.redis.port=6379
7
8# Specify the access key for your Redis cache. //key not same as string
9spring.redis.password=2
```

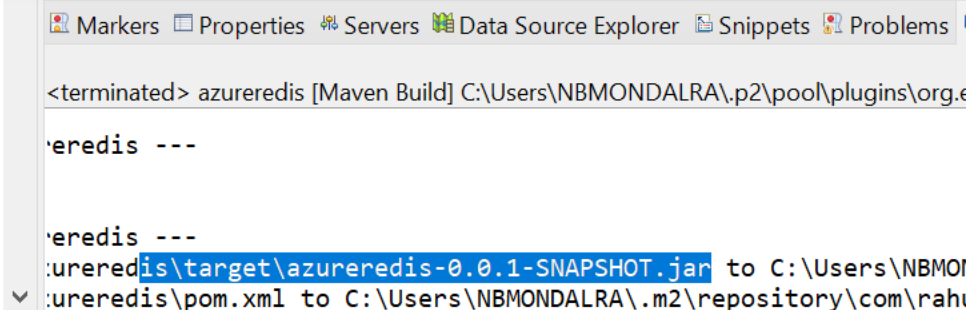
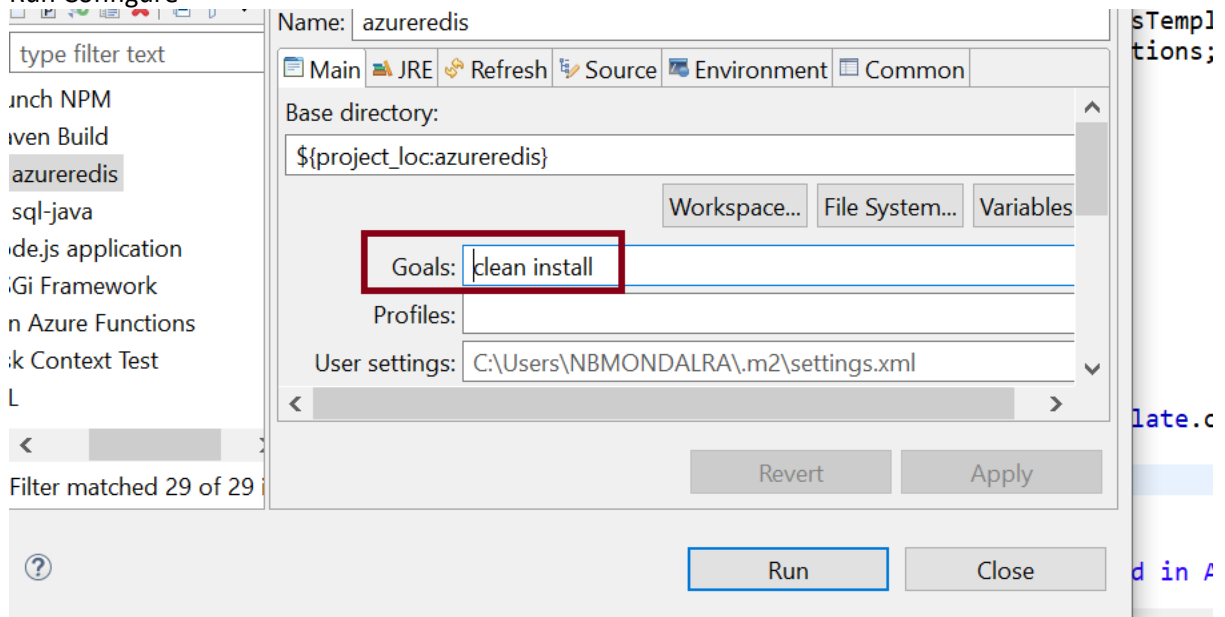
If you are using a different Redis client like **Jedis** that enables SSL, you would specify that you want to use SSL in your **application.properties** file and use port 6380.

4. Add a Controller class - it has the set and get value operation from Redis



5. Test-

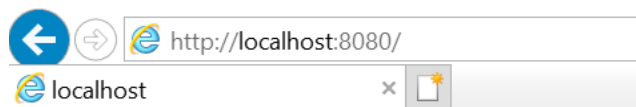
Create Jar Run Configure



Run

```
java -jar azureredis-0.0.1-SNAPSHOT.jar
```

```
urationDelegate : Bootstrapping Spring Data Redis repositories in DEFAULT mode.  
urationDelegate : Finished Spring Data repository scanning in 8 ms. Found 0 Redis  
  
omcatWebServer Tomcat initialized with port(s): 8080 (http)  
andardService Starting service [Tomcat]  
StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.58]  
host].[/] : Initializing Spring embedded WebApplicationContext  
licationContext : Root WebApplicationContext: initialization completed in 2605 ms  
omcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''  
lication : Started AzureredisDemoApplication in 5.133 seconds (JVM running
```



this is a value for key stored in Azure Redis Cache

Check The Metrics-

