

# Mockito

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## Sample Code

### Sample Test

```
@Test
public void testSuccess() {

    String topic="testLog";
    String workspaceId = UUID.randomUUID().toString();
    String workspaceKey = UUID.randomUUID().toString();
    final Map<String, String> properties = ImmutableMap.of("workspace.id", workspaceId, "workspace.key",
workspaceKey);
    final Map<String, Object> messageMap = ImmutableMap.of("firstName", "example", "lastName", "user");

    try {
        LogAnalyticsGateway mockedLogAnalyticsGateway = mock(LogAnalyticsGateway.class);
        LogAnalyticsSinkTask logAnalyticsSinkTask = new LogAnalyticsSinkTask(mockedLogAnalyticsGateway);

        //start
        logAnalyticsSinkTask.start(properties);

        //define SinkRecord
        final SinkRecord sinkRecord = new SinkRecord(topic,1,null,null,null, messageMap,1234L);

        //send SinkRecord
        ArrayList<SinkRecord> records = new ArrayList<>();
        records.add(sinkRecord);
        logAnalyticsSinkTask.put(records);

        //verify arguments sent to LogAnalyticsGateway.sendData method
        ArgumentCaptor<String> urlCaptor = ArgumentCaptor.forClass(String.class);
        ArgumentCaptor<String> rawJsonCapture = ArgumentCaptor.forClass(String.class);
        ArgumentCaptor<String> logTypeCapture = ArgumentCaptor.forClass(String.class);
        ArgumentCaptor<String> authorizationCapture = ArgumentCaptor.forClass(String.class);

        verify(mockedLogAnalyticsGateway).sendData(urlCaptor.capture(),rawJsonCapture.capture(),
logTypeCapture.capture(),authorizationCapture.capture());
        assertThat("Logtype does not match topic",logTypeCapture.getValue().equals(topic));
        assertThat("WorkspaceId not specified in URL",urlCaptor.getValue().startsWith("https://" +
workspaceId));

        ObjectMapper mapper = new ObjectMapper();
        JsonNode entries = mapper.readTree(rawJsonCapture.getValue());
        JsonNode entry = entries.get(0);

        assertThat("json message incorrect firstname",entry.get("firstName").asText().equals("example"));
        assertThat("json message incorrect lastname",entry.get("lastName").asText().equals("user"));

    }catch (Exception ex){
        fail("Unforseen exception occurred");
    }
}
```

### Mocking a URL

```
URLConnection mockURLConnection = mock(URLConnection.class);
URL mockUrl = mock(URL.class);
when(new URL(anyString())).thenReturn(mockUrl);
when(mockUrl.openConnection()).thenReturn(mockURLConnection);
```