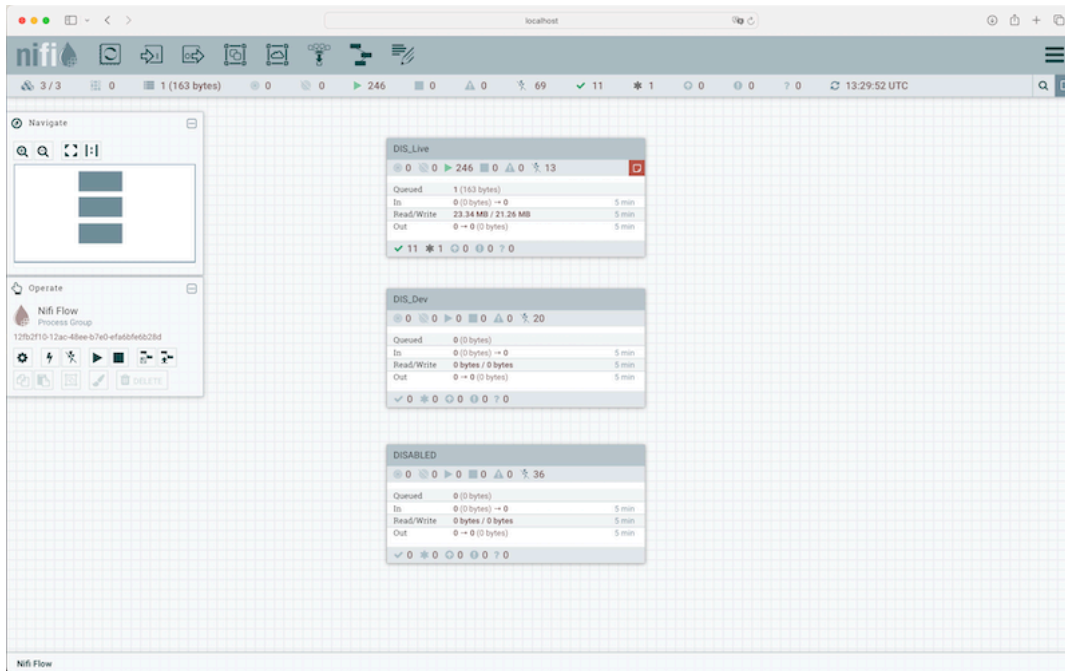


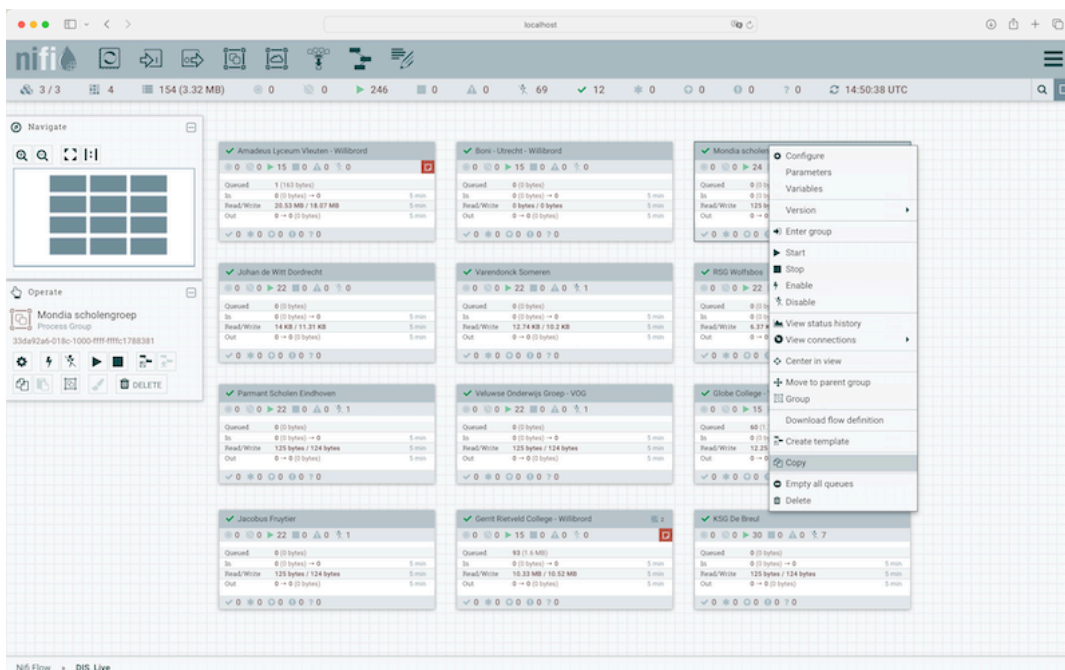
SOP rooster synchronisation Zermelo

Cloning an Existing Processor Group

- Initially, establish a connection to AKS and Apache NiFi by following the "CONNECT-TO-AKS" SOP.
- Access Apache NiFi's interface by navigating to <http://localhost:8080/nifi> in your web browser.

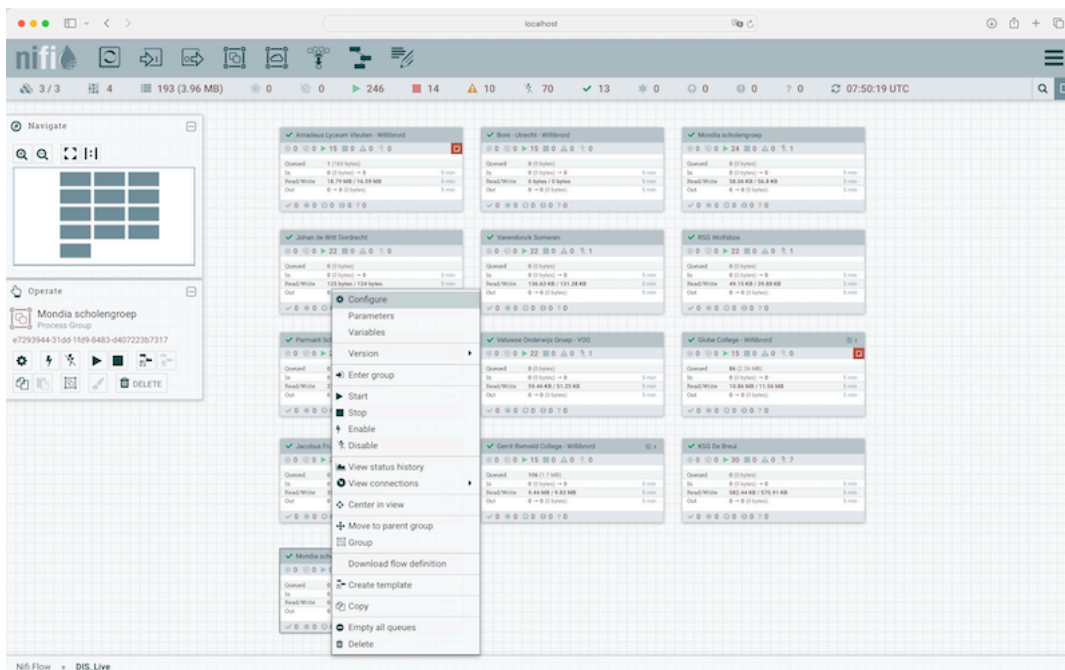


- Locate and select the "DIS_Live" Process Group. From there, choose a specific Process Group, such as "Mondia scholengroep," and duplicate it.

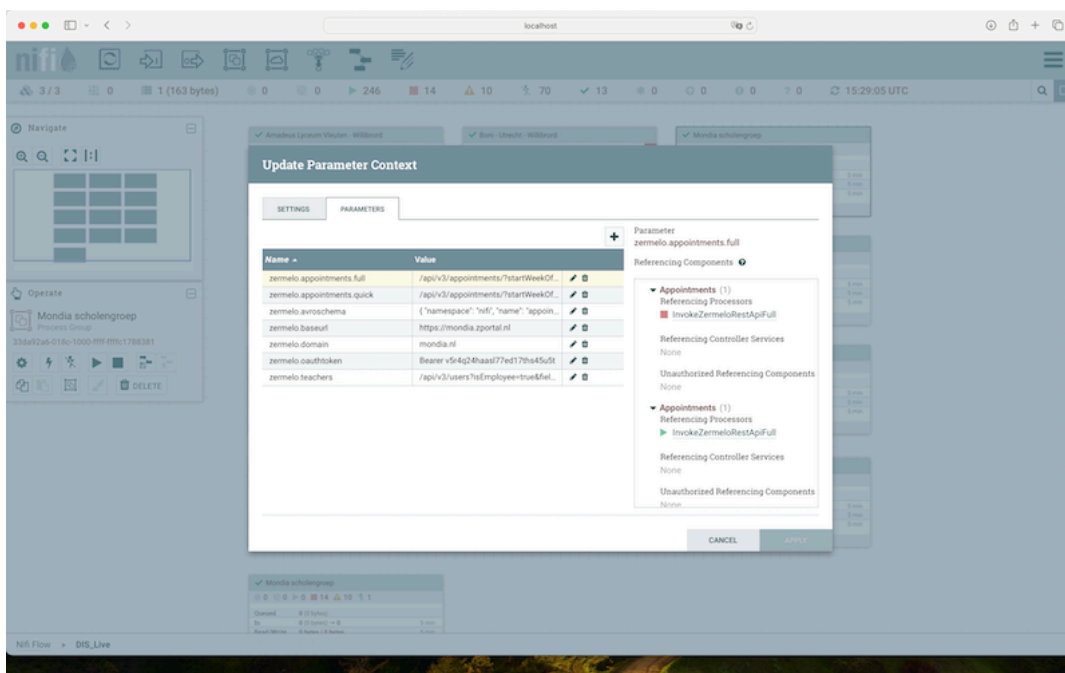


Setting Up a Parameter Context

- After duplicating the Process Group, right-click on it and select "configure" to begin setting it up.



- Assign a name to your Process Group and create a new parameter context for it.

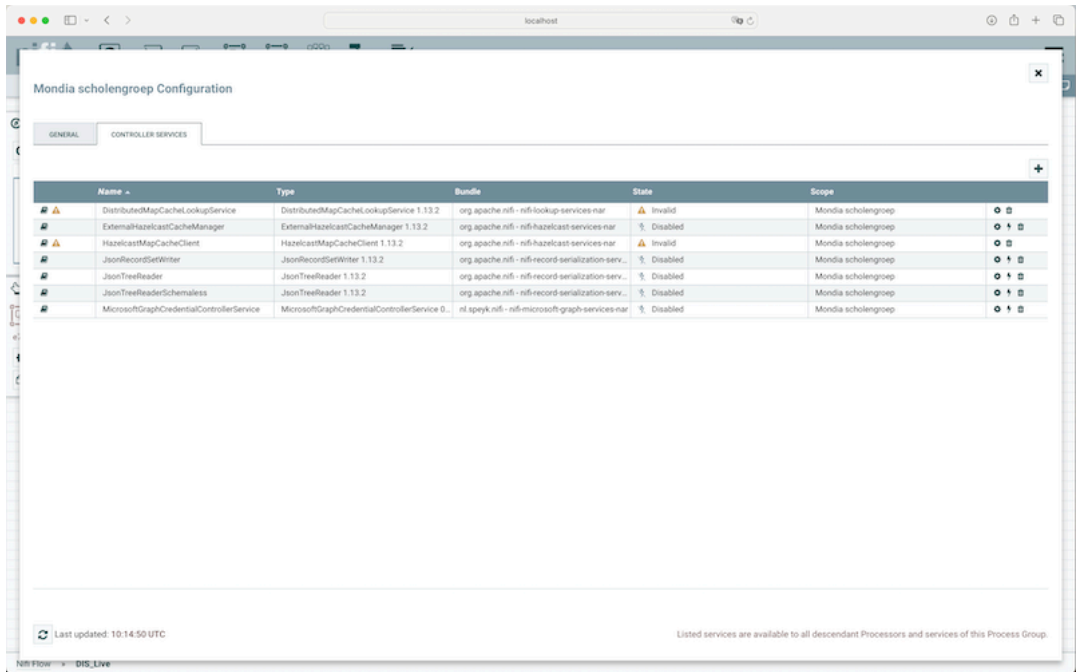


- Define the parameter context by giving it a name and entering the following parameters:

Name	Value
zermelo.appointments.full	/api/v3/appointments/?startWeekOffset=0&endWeekOffset=3&fields=id,valid,appointmentInstance,start,end,startTimeSlotName,endTimeSlotName
zermelo.appointments.quick	/api/v3/appointments/?startWeekOffset=0&endWeekOffset=3&modifiedSince=\${now()}.toNumber().divide(1000).minus(900)&fields=id,valid,appointmentInstance,start,end,startTimeSlotName,endTimeSlotName
zermelo.avroschema	{ "namespace": "nifi", "name": "appointment", "type": "record", "fields": [{ "name": "id", "type": "long" }, { "name": "appointmentInstance", "type": "long", "logicalType": "timestamp-millis" }, { "name": "endDateTime", "type": ["null", "string"] }, { "name": "groups", "type": { "type": "array", "items": { "name": "changeDescription", "type": ["null", "string"] }, { "name": "schedulerRemark", "type": ["null", "string"] }, { "name": "expectedStudentCount", "type": ["null", "string"] }, { "name": "endTimeSlotName", "type": "string" }, { "name": "email", "type": "string" }, { "name": "subjects", "type": { "type": "array", "items": "string", "default": [] } }] }
zermelo.baseurl	https://customer.zportal.nl
zermelo.domain	mondia.nl
zermelo.oauthTokenBearer	Bearer dlhvftfk8og4hnjun02g14id8
zermelo.teachers	/api/v3/users?isEmployee=true&fields=code,email

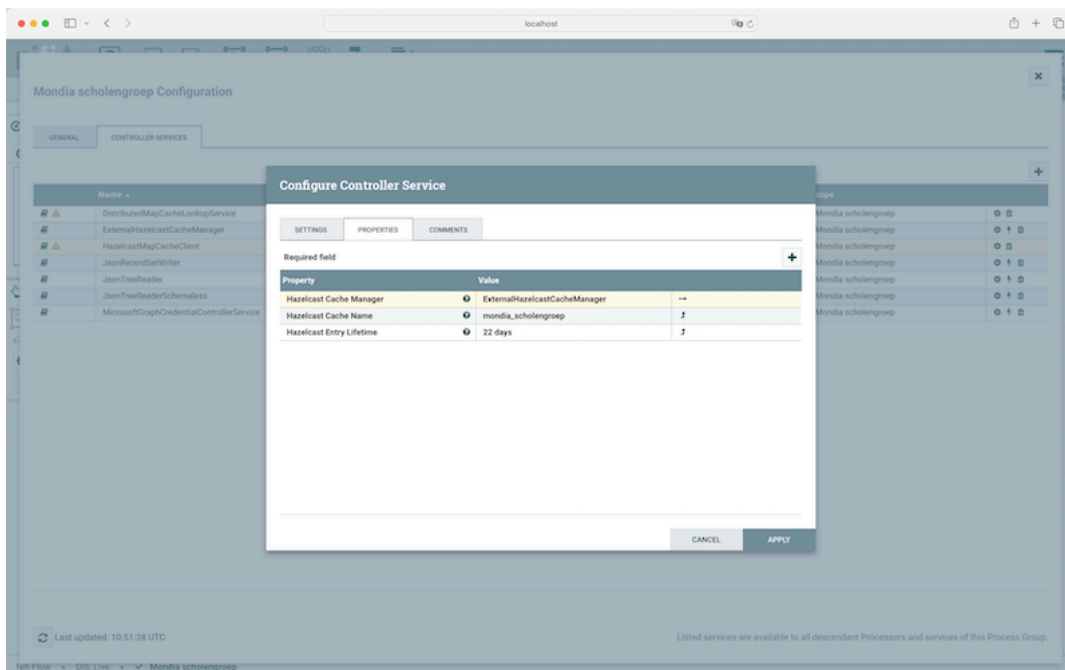
Configure controller services

- Ensure the correct operation of processors by configuring Apache NiFi controller services, including custom SPEYK services. These must be enabled and configured appropriately.
- For the "MicrosoftGraphCredentialControllerService," input the necessary details and activate it.



Property	Value
Auth Grant Type	client_credentials
Auth Client id	014b1961-2082-428a-940d-b5129e6ae9fe
Auth Client Secret	qU-8Q~POFUZbTmbRb0MGC-XqEvFSIAMMaNoiHdAa
Auth Tenant Id	617f0231-3e08-4ebe-a403-3731ed7b9712
Auth Scope	https://graph.microsoft.com/.default

- Enable the following controller services:
 - JsonTreeReaderSchemaless
 - JsonTreeReader
 - JsonRecordSetWriter
 - ExternalHazelcastCacheManager
- Configure and enable the "HazelcastMapCacheClient" with the specified settings.

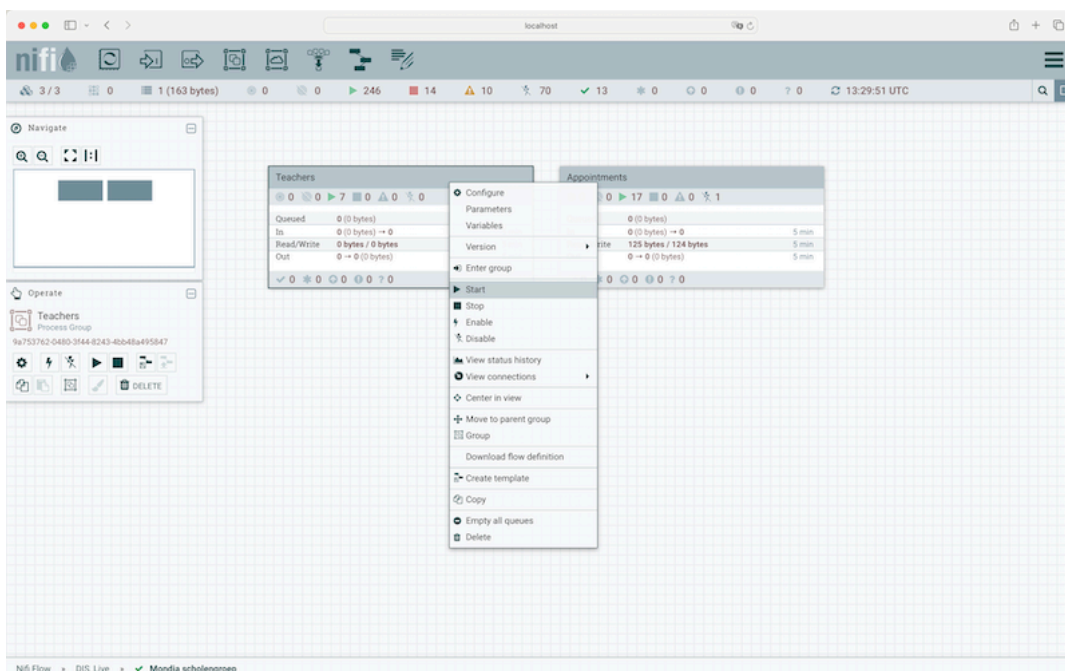


Property	Value
Hazelcast Cache Manager	ExternalHazelcastCacheManager
Hazelcast Cache Name	customer_scholengroep
Hazelcast Entry Lifetime	22 days

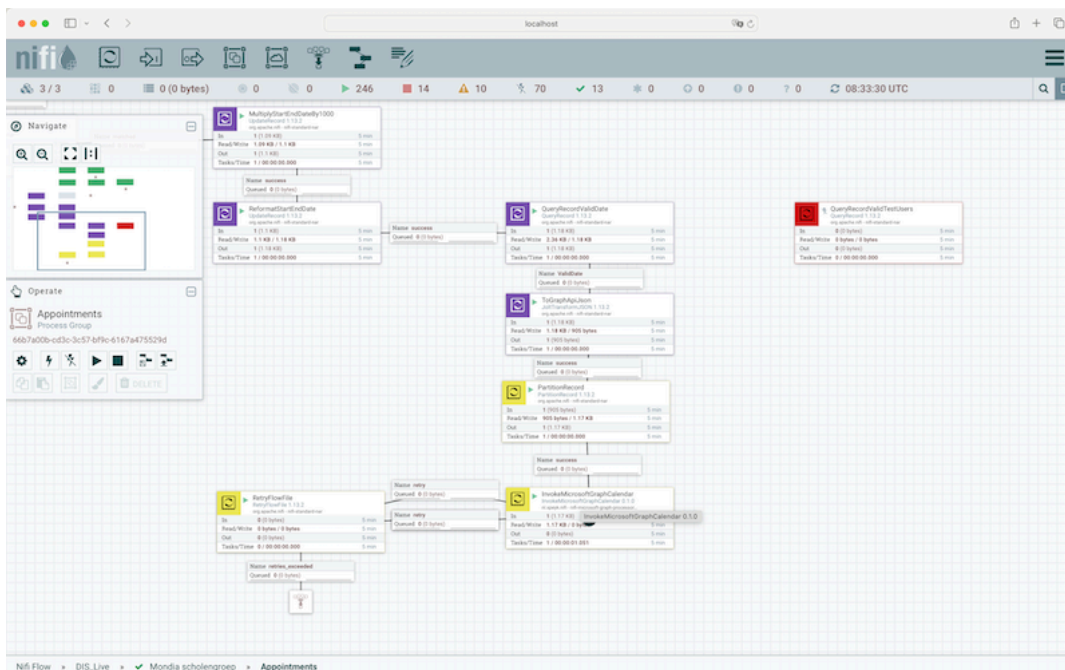
- Also, activate the "DistributedMapCacheLookupService" controller service.

Finalizing the Processor Group Setup

- Within the newly created processor group, initiate the "Teachers" processor by right-clicking on it and selecting "Start."



- Proceed to the "Appointments" processor group, locate the "InvokeRestApiZermeloFull" processor, and access its configuration.



- Adjust its settings accordingly.

Processor Details

Running STOP & CONFIGURE

SETTINGS SCHEDULING PROPERTIES COMMENTS

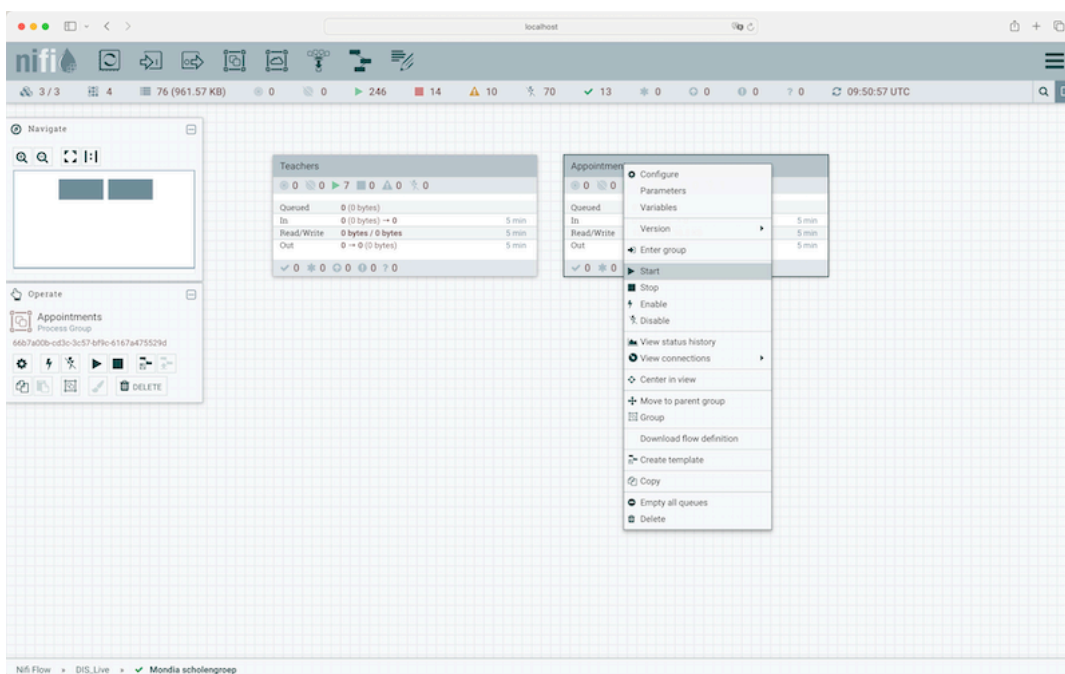
Required field

Property	Value
Graph Controller Service	MicrosoftGraphCredentialControllerService
Distributed mapcache client	HazelcastMapCacheClient
Rooster System	Zermelo
User Id	\$(upn-name)
Delete events, default is tentative	true
Is Update	\$(is-update)
Weeks in advance, default is 3	3
Rebuild the map cache	false
Zermelo rest api endpoint	https://(naam school).zportal.nl/api/v3/appointments/
Zermelo oauth token	No value set
Zermelo prefix	No value set
Zermelo postfix	[]

OK

Property	Value
Graph Controller Service	MicrosoftGraphCredentialControllerService
Distributed mapcache client	HazelcastMapCacheClient
Rooster System	Zermelo
User Id	\${'upn-name'}
Delete events, default is tentative	true
Is Update	\${'is-update'}
Weeks in advance, default is 3	3
Rebuild the map cache	false
Zermelo rest api endpoint	https://{naam school}.zportal.nl/api/v3/appointments/
Zermelo oauth token	clvhevfk8og3hnfie02g14id7
Zermelo prefix	
Zermelo postfix	[!]

- Ensure all processors within the "Appointments" group are activated.



- Completion of these steps successfully configures the synchronization process with Zermelo.