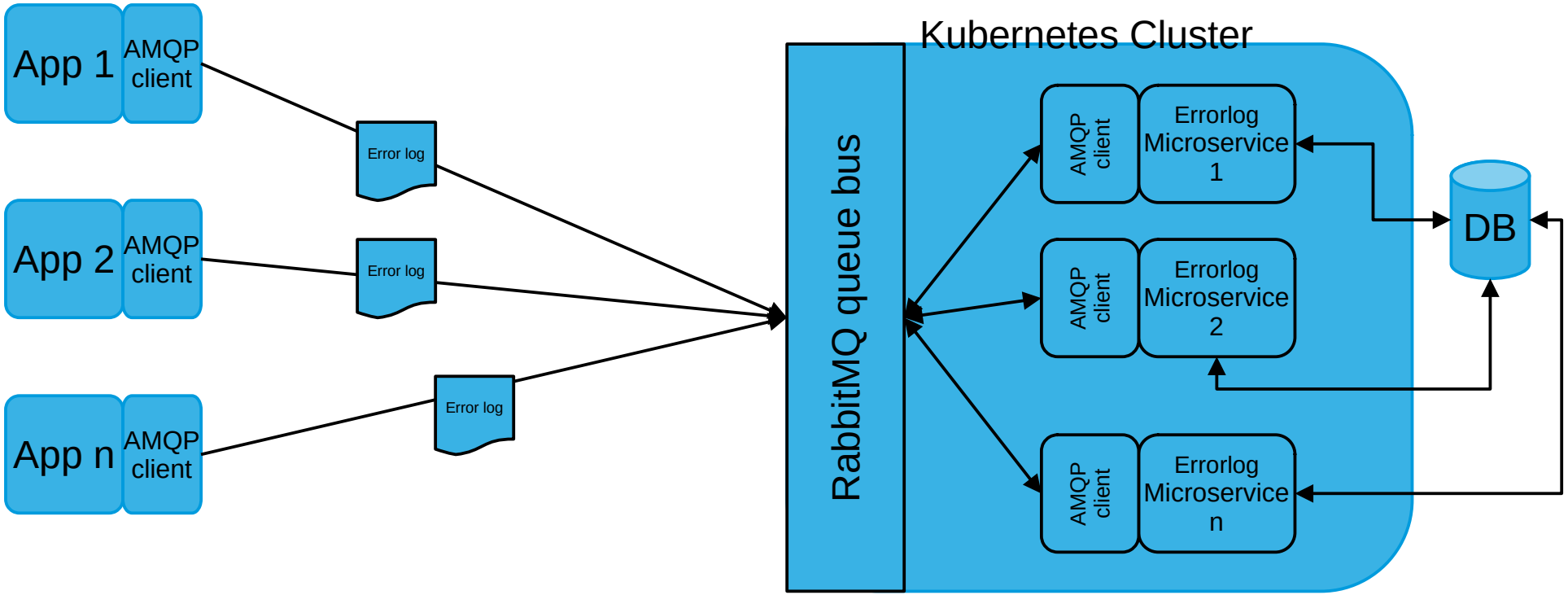
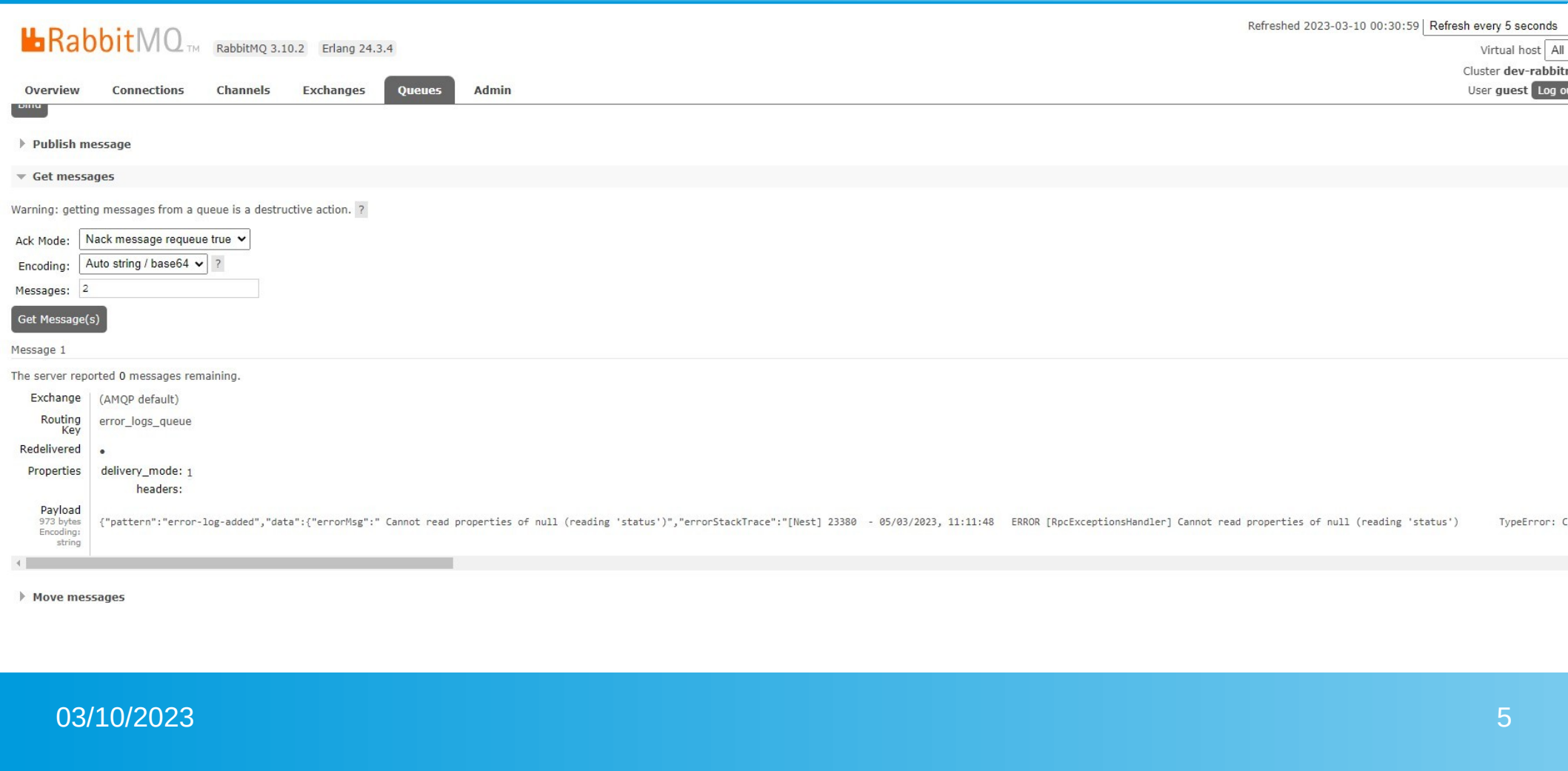
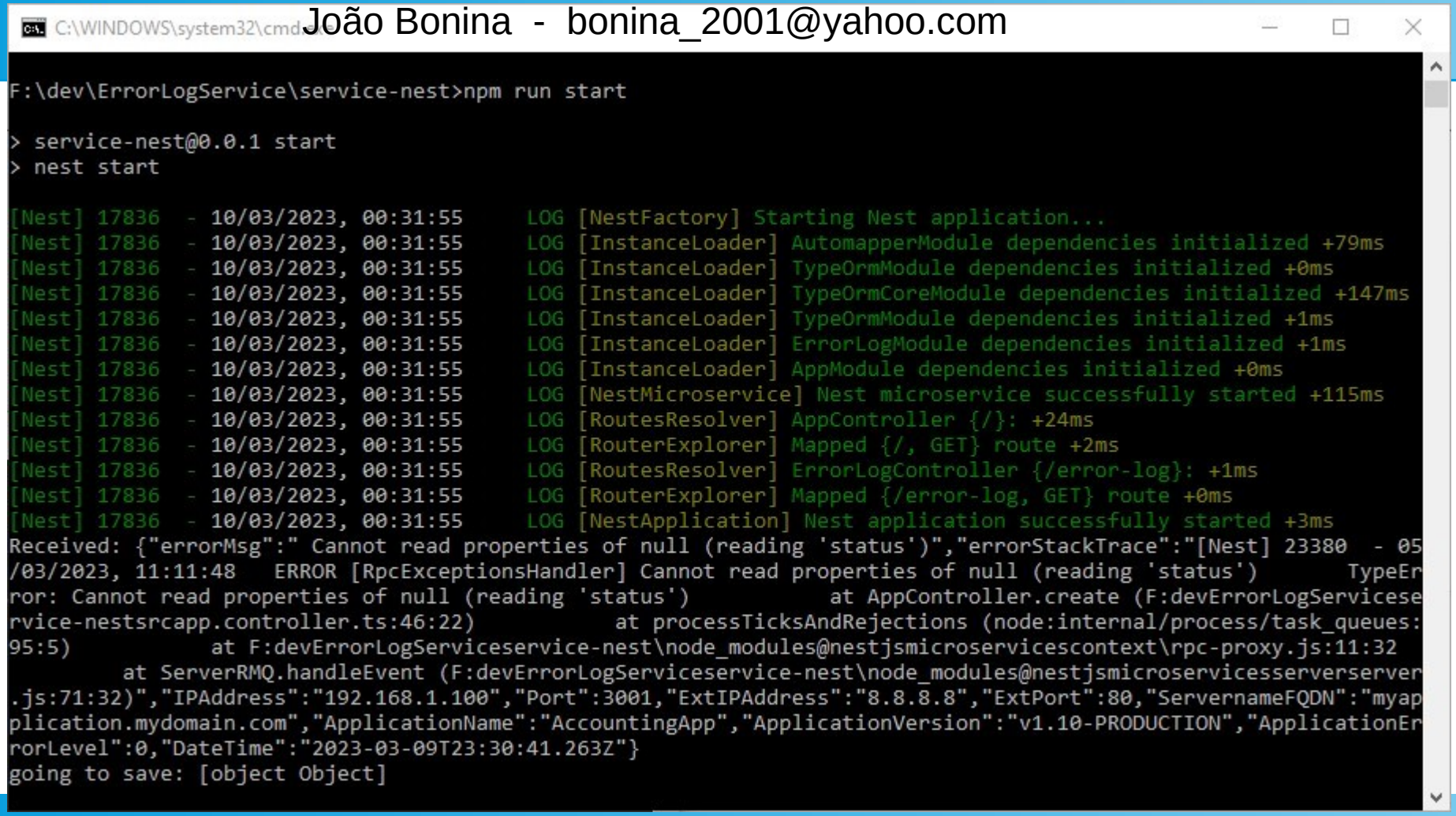
- Microservices architecture for containerized deployment on Kubernetes
  - Ensures HIGH-availability and HIGH-scalability
- The microservices consume messages injected into a Rabbit-MQ BUS by the client applications through the AMQP protocol. The Rabbit-MQ queue can also be deployed on Kubernetes for HIGH-availability.
- The Postgresql database engine can be deployed anywhere. Also on Kubernetes for HIGH-scalability.

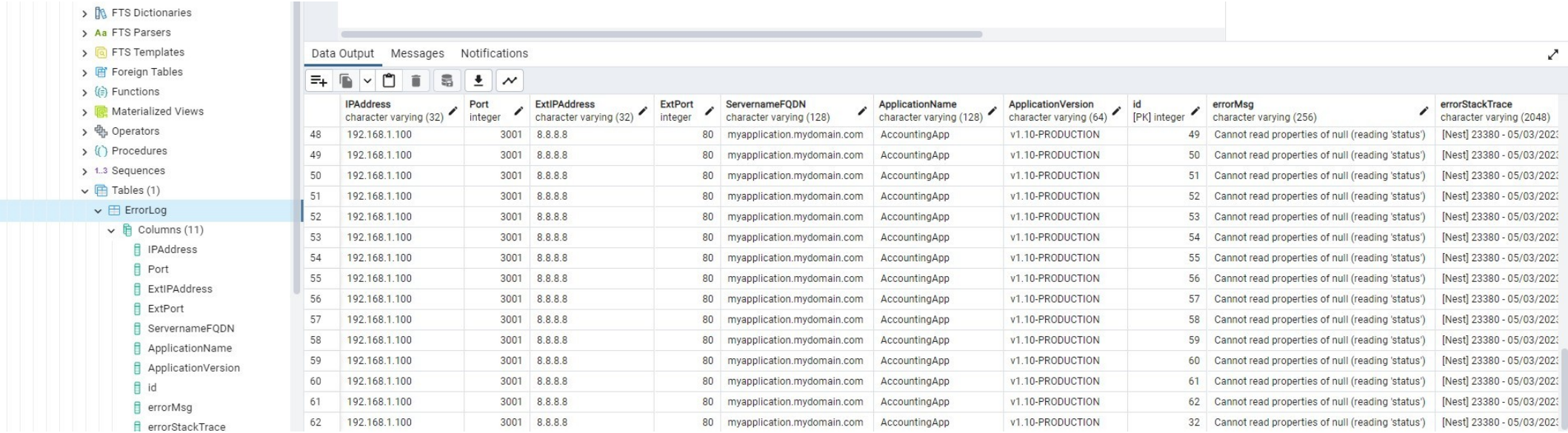

App 1
AMQP client
App 2
AMQP client
App n
AMQP client
Error log
Error log
Error log
RabbitMQ queue bus
Kubernetes Cluster
AMQP client
Errorlog Microservice 1
AMQP client
Errorlog Microservice 2
AMQP client
Errorlog Microservice n
DB

- Software Stack
  - Nest.js / Angular
  - Postgres 15.2-1
  - RabbitMQ 3.10.2
  -
  - Developed on VS-Code

- Development uses the usual techniques for robust development of services. Ensures decoupling and testability.
  - MVC architecture, namely:
    - Controllers
    - Services pattern
    - Application pattern
    - Entities
    - Interfaces
  - ORM and Repositories
  - DTOs and Automappers


RabbitMQ
RabbitMQ 3.10.2
Erlang 24.3.4
Refreshed 2023-03-10 00:30:59
Refresh every 5 seconds
Virtual host
Cluster dev-rabbit
User guest
Log o
Overview
Connections
Channels
Exchanges
Queues
Admin
Publish message
Get messages
Warning: getting messages from a queue is a destructive action.
Ack Mode:
Nack message requeue true
Encoding:
Auto string / base64
Messages:
2
Get Message(s)
Message 1
The server reported 0 messages remaining.
Exchange
(AMQP default)
Routing Key
error_logs_queue
Redelivered
Properties
delivery_mode: 1
headers:
Payload
973 bytes
Encoding: string
{"pattern":"error-log-added","data":{"errorMsg":" Cannot read properties of null (reading 'status')","errorStackTrace":"[Nest] 23380 - 05/03/2023, 11:11:48 ERROR [RpcExceptionsHandler] Cannot read properties of null (reading 'status') TypeError: C
Move messages


C:\WINDOWS\system32\cmd.exe
F:\dev\ErrorLogService\service-nest>npm run start
> service-nest@0.0.1 start
> nest start
[Nest] 17836 - 10/03/2023, 00:31:55 LOG [NestFactory] Starting Nest application...
[Nest] 17836 - 10/03/2023, 00:31:55 LOG [InstanceLoader] AutomapperModule dependencies initialized +79ms
[Nest] 17836 - 10/03/2023, 00:31:55 LOG [InstanceLoader] TypeOrmModule dependencies initialized +0ms
[Nest] 17836 - 10/03/2023, 00:31:55 LOG [InstanceLoader] TypeOrmCoreModule dependencies initialized +147ms
[Nest] 17836 - 10/03/2023, 00:31:55 LOG [InstanceLoader] TypeOrmModule dependencies initialized +1ms
[Nest] 17836 - 10/03/2023, 00:31:55 LOG [InstanceLoader] ErrorLogModule dependencies initialized +1ms
[Nest] 17836 - 10/03/2023, 00:31:55 LOG [InstanceLoader] AppModule dependencies initialized +0ms
[Nest] 17836 - 10/03/2023, 00:31:55 LOG [NestMicroservice] Nest microservice successfully started +115ms
[Nest] 17836 - 10/03/2023, 00:31:55 LOG [RoutesResolver] AppController {/}: +24ms
[Nest] 17836 - 10/03/2023, 00:31:55 LOG [RouterExplorer] Mapped {/, GET} route +2ms
[Nest] 17836 - 10/03/2023, 00:31:55 LOG [RoutesResolver] ErrorLogController {/error-log}: +1ms
[Nest] 17836 - 10/03/2023, 00:31:55 LOG [RouterExplorer] Mapped {/error-log, GET} route +0ms
[Nest] 17836 - 10/03/2023, 00:31:55 LOG [NestApplication] Nest application successfully started +3ms
Received: {"errorMsg":" Cannot read properties of null (reading 'status')","errorStackTrace":"[Nest] 23380 - 05
/03/2023, 11:11:48 ERROR [RpcExceptionsHandler] Cannot read properties of null (reading 'status') TypeEr
ror: Cannot read properties of null (reading 'status') at AppController.create (F:devErrorLogServicese
rvice-nestsrcapp.controller.ts:46:22) at processTicksAndRejections (node:internal/process/task_queues:
95:5) at F:devErrorLogServiceservice-nest\node_modules@nestjsmicroservicescontext\rpc-proxy.js:11:32
at ServerRMQ.handleEvent (F:devErrorLogServiceservice-nest\node_modules@nestjsmicroservicesserverserver
.js:71:32)","IPAddress":"192.168.1.100","Port":3001,"ExtIPAddress":"8.8.8.8","ExtPort":80,"ServernameFQDN":"myap
plication.mydomain.com","ApplicationName":"AccountingApp","ApplicationVersion":"v1.10-PRODUCTION","ApplicationEr
rorLevel":0,"DateTime":"2023-03-09T23:30:41.263Z"}
going to save: [object Object]



	IPAddress character varying (32)	Port integer	ExtIPAddress character varying (32)	ExtPort integer	ServernameFQDN character varying (128)	ApplicationName character varying (128)	ApplicationVersion character varying (64)	id [PK] integer	errorMsg character varying (256)	errorStackTrace character varying (2048)
48	192.168.1.100	3001	8.8.8.8	80	myapplication.mydomain.com	AccountingApp	v1.10-PRODUCTION	49	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/202
49	192.168.1.100	3001	8.8.8.8	80	myapplication.mydomain.com	AccountingApp	v1.10-PRODUCTION	50	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/202
50	192.168.1.100	3001	8.8.8.8	80	myapplication.mydomain.com	AccountingApp	v1.10-PRODUCTION	51	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/202
51	192.168.1.100	3001	8.8.8.8	80	myapplication.mydomain.com	AccountingApp	v1.10-PRODUCTION	52	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/202
52	192.168.1.100	3001	8.8.8.8	80	myapplication.mydomain.com	AccountingApp	v1.10-PRODUCTION	53	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/202
53	192.168.1.100	3001	8.8.8.8	80	myapplication.mydomain.com	AccountingApp	v1.10-PRODUCTION	54	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/202
54	192.168.1.100	3001	8.8.8.8	80	myapplication.mydomain.com	AccountingApp	v1.10-PRODUCTION	55	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/202
55	192.168.1.100	3001	8.8.8.8	80	myapplication.mydomain.com	AccountingApp	v1.10-PRODUCTION	56	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/202
56	192.168.1.100	3001	8.8.8.8	80	myapplication.mydomain.com	AccountingApp	v1.10-PRODUCTION	57	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/202
57	192.168.1.100	3001	8.8.8.8	80	myapplication.mydomain.com	AccountingApp	v1.10-PRODUCTION	58	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/202
58	192.168.1.100	3001	8.8.8.8	80	myapplication.mydomain.com	AccountingApp	v1.10-PRODUCTION	59	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/202
59	192.168.1.100	3001	8.8.8.8	80	myapplication.mydomain.com	AccountingApp	v1.10-PRODUCTION	60	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/202
60	192.168.1.100	3001	8.8.8.8	80	myapplication.mydomain.com	AccountingApp	v1.10-PRODUCTION	61	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/202
61	192.168.1.100	3001	8.8.8.8	80	myapplication.mydomain.com	AccountingApp	v1.10-PRODUCTION	62	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/202
62	192.168.1.100	3001	8.8.8.8	80	myapplication.mydomain.com	AccountingApp	v1.10-PRODUCTION	32	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/202

Error Logging Service

Error Logs

ID	Error Level	Message	Stack	IP addr	Port	Application	Version
62	0	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/2023, 11:11:48 ERROR [RpcExceptionsHandler] Cannot read properties of null (reading 'status') TypeError: Cannot read properties of null (reading 'status') at AppController.create (F:devErrorLogServiceservice-nestsrcapp.controller.ts:46:22) at processTicksAndRejections (node:internal/process/task_queues:95:5) at F:devErrorLogServiceservice-nest ode_modules@nestjsmicroservicescontext pc-proxy.js:11:32 at ServerRMQ.handleEvent (F:devErrorLogServiceservice-nest ode_modules@nestjsmicroservicesserverserver.js:71:32)	192.168.1.100	3001	AccountingApp	v1.10-PRODUCTION
61	1	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/2023, 11:11:48 ERROR [RpcExceptionsHandler] Cannot read properties of null (reading 'status') TypeError: Cannot read properties of null (reading 'status') at AppController.create (F:devErrorLogServiceservice-nestsrcapp.controller.ts:46:22) at processTicksAndRejections (node:internal/process/task_queues:95:5) at F:devErrorLogServiceservice-nest ode_modules@nestjsmicroservicescontext pc-proxy.js:11:32 at ServerRMQ.handleEvent (F:devErrorLogServiceservice-nest ode_modules@nestjsmicroservicesserverserver.js:71:32)	192.168.1.100	3001	AccountingApp	v1.10-PRODUCTION
60	1	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/2023, 11:11:48 ERROR [RpcExceptionsHandler] Cannot read properties of null (reading 'status') TypeError: Cannot read properties of null (reading 'status') at AppController.create (F:devErrorLogServiceservice-nestsrcapp.controller.ts:46:22) at processTicksAndRejections (node:internal/process/task_queues:95:5) at F:devErrorLogServiceservice-nest ode_modules@nestjsmicroservicescontext pc-proxy.js:11:32 at ServerRMQ.handleEvent (F:devErrorLogServiceservice-nest ode_modules@nestjsmicroservicesserverserver.js:71:32)	192.168.1.100	3001	AccountingApp	v1.10-PRODUCTION
59	0	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/2023, 11:11:48 ERROR [RpcExceptionsHandler] Cannot read properties of null (reading 'status') TypeError: Cannot read properties of null (reading 'status') at AppController.create (F:devErrorLogServiceservice-nestsrcapp.controller.ts:46:22) at processTicksAndRejections (node:internal/process/task_queues:95:5) at F:devErrorLogServiceservice-nest ode_modules@nestjsmicroservicescontext pc-proxy.js:11:32 at ServerRMQ.handleEvent (F:devErrorLogServiceservice-nest ode_modules@nestjsmicroservicesserverserver.js:71:32)	192.168.1.100	3001	AccountingApp	v1.10-PRODUCTION
58	0	Cannot read properties of null (reading 'status')	[Nest] 23380 - 05/03/2023, 11:11:48 ERROR [RpcExceptionsHandler] Cannot read properties of null (reading 'status') TypeError: Cannot read properties of null (reading 'status') at AppController.create (F:devErrorLogServiceservice-nestsrcapp.controller.ts:46:22) at processTicksAndRejections (node:internal/process/task_queues:95:5) at F:devErrorLogServiceservice-nest ode_modules@nestjsmicroservicescontext pc-proxy.js:11:32 at ServerRMQ.handleEvent (F:devErrorLogServiceservice-nest ode_modules@nestjsmicroservicesserverserver.js:71:32)	192.168.1.100	3001	AccountingApp	v1.10-PRODUCTION

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