

Activity Log Policy

- Use an Activity Log policy to control the data that is written to the activity logs, and to control how the logs are written to a file, to the integration server console (standard out), to an ELK stack, or to a combination of output destinations.
- Activity logs contain information about message flows and how they interact with external resources. They can be generated for a message flow or a resource type. The data in your activity logs is organized into columns, and you can use tags to filter data and to provide additional information. You can use an Activity Log policy to control, at run time, where you write your activity logs, what data you write to them, and whether the logs are formatted.
- You can change the activity log by redeploying the policy. If you redeploy an Activity Log policy that changes the value of the File name property, the existing activity log is deleted and a new activity log is created. During the deletion and creation process, any activity log entries that would have been written to the activity log are not written.

You can configure the destination of activity log output and apply filtering to the entries that are written in 2 ways.

- 1) By deploying an Activity Log policy.
- 2) By setting properties in the ActivityLog section of the server.conf.yaml file.

1) Activity Log Policy :-

Activity Log policy is used to control the data that is written to the activity logs, and to control how the logs are written to a file. Activity logs contain information about message flows and how they interact with external resources.

Properties of the Activity log policy are shown below.

Name

activitylog

Type

Activity Log

Template

Activity Log

Property	Value
Enabled	true
Tag filter string	
Minimum severity of log entries	INFORMATIONAL
Enable logging to ELK	false
Name of the ELKConnection for logging to ELK	
File name	C:\Users\Sreenivas Bandaru\Desktop\IIB\IIB\Enviro\...
Number of log files	4
Maximum age of log files (minutes)	0
Maximum log file size (MB)	25
Format the entries	false
Write activity log messages to standard out	false
Format of messages written to standard out	text
Additional json elements for ibmjson format	

In the above policy give path in **File name** the logs are stored in that path.

Give policy project name and policy name in yaml file as below.

{ActivityLog}:activitylog

```
Defaults:
  #defaultApplication: '' # Name a default
  # Defaults to the
  policyProject: '{ActivityLog}:activitylog' # Name c
Policies:
```

logs

MessageNumber	Severity	Timestamp	ThreadID	FormattedMessage	Tags	Inserts
12063	I	"2024-04-04 07:08:22.049807"	20648	,	"NODETYPE=OUTPUT,NODE=,MSGFLOW=,RM=MQTT,	
12097	I	"2024-04-04 07:08:22.054021"	20648	,	"NODETYPE=OUTPUT,NODE=,MSGFLOW=,RM=MQTT,	
12097	I	"2024-04-04 07:08:22.059048"	20648	,	"NODETYPE=OUTPUT,NODE=,MSGFLOW=,RM=MQTT,	
12097	I	"2024-04-04 07:08:42.175285"	20648	,	"NODETYPE=OUTPUT,NODE=,MSGFLOW=,RM=MQTT,	
12097	I	"2024-04-04 07:08:42.183904"	20648	,	"NODETYPE=OUTPUT,NODE=,MSGFLOW=,RM=MQTT,	
12097	I	"2024-04-04 07:08:50.932616"	12672	,	"NODETYPE=OUTPUT,NODE=,MSGFLOW=,RM=MQTT,	

2) ActivityLog section of the server.conf.yaml :-

Configure the output of an activity log by setting properties in the Activity Log section of a node.conf.yaml or server.conf.yaml configuration file.

Enable the properties in server.conf.yaml file with the help of **Activity Log Policy**. After enabling the properties, the server.conf.yaml file is shown below.

```
ActivityLog:
# Copy and customize the ActivityLogTemplate
# Rename the section title 'ActivityLogTemplate'
ActivityLogTemplate:
  enabled: true                # The Enak
  #filter: 'RM=JMS'           # The Tag
                              # For ex
  minSeverityLevel: INFO      # The Mini
                              # Val
  #elkLog: false              # Enable
  #elkConnections:            # Name of
  fileName: C:\Surya\ActivityLog.txt # Name c
  numberOfLogs: 1             # Number c
  maxAgeMins: 2               # Maximum
  maxFileSizeMb: 25           # Maximum
  #formatEntries: false       # Sets wh
  #consoleLog: false          # Control
  consoleLogFormat: 'text'    # Control
  #additionalJsonElements: '"name1": "value1"'
```

After that restart the integration node and deploy the application. The Activity logs are stored in a file like as shown below.

```
MessageNumber,Severity,Timestamp,ThreadID,FormattedMessage,Tags,Inserts
12097,I,"2024-04-04 07:09:22.411592",20648,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:09:22.420320",20648,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:09:31.199337",12672,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:09:42.522858",20648,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:09:42.534562",20648,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:09:51.831735",12672,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:10:02.613440",20648,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:10:02.620966",20648,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:10:11.473829",12672,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:10:22.740755",20648,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:10:22.744717",20648,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:10:31.105227",12672,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:10:42.859318",20648,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:10:42.863069",20648,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:10:51.731478",12672,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:11:02.948921",20648,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:11:02.952257",20648,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
12097,I,"2024-04-04 07:11:11.357830",12672,,,"NODETYPE=OUTPUT,NODE=MSGFLOW=,RM=MQTT,connectionUrl=tcp://localhost:11884,Topic=IBM/IntegrationBus/log/Resourc
```