

SAP JAVA Agent install

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1. Media

- Go to = <https://download.appdynamics.com/download/>

- Download - Java Agent - Sun and JRockit JVM



Java Agent - Sun and JRockit JVM (zip) 23.6 MB

Agent to monitor Java applications (for Sun and JRockit JVM).

[Entitlement](#) | [Release Notes](#) | [Checksums](#) | [Next Steps](#)

- Uncompress it and move the folder to the host location
 - /opt/appdynamics/appagent/
- Download – ABAP Agent (this includes the SAP_JCO file you need and the readme.txt)



ABAP Agent (zip) 209.6 MB

Monitoring toolkit for SAP ABAP Applications.

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2. Build and Configure

- Place the SAP_JCO_iSDK.jar and jco-rules.xml files into
<agent_install_dir>/ver4.x.x.x/sdk-plugins/ folder

- Change permissions /opt/appdynamics/appagent to 777
- Edit/Verify the controller.xml file in the conf folder has the following parameters

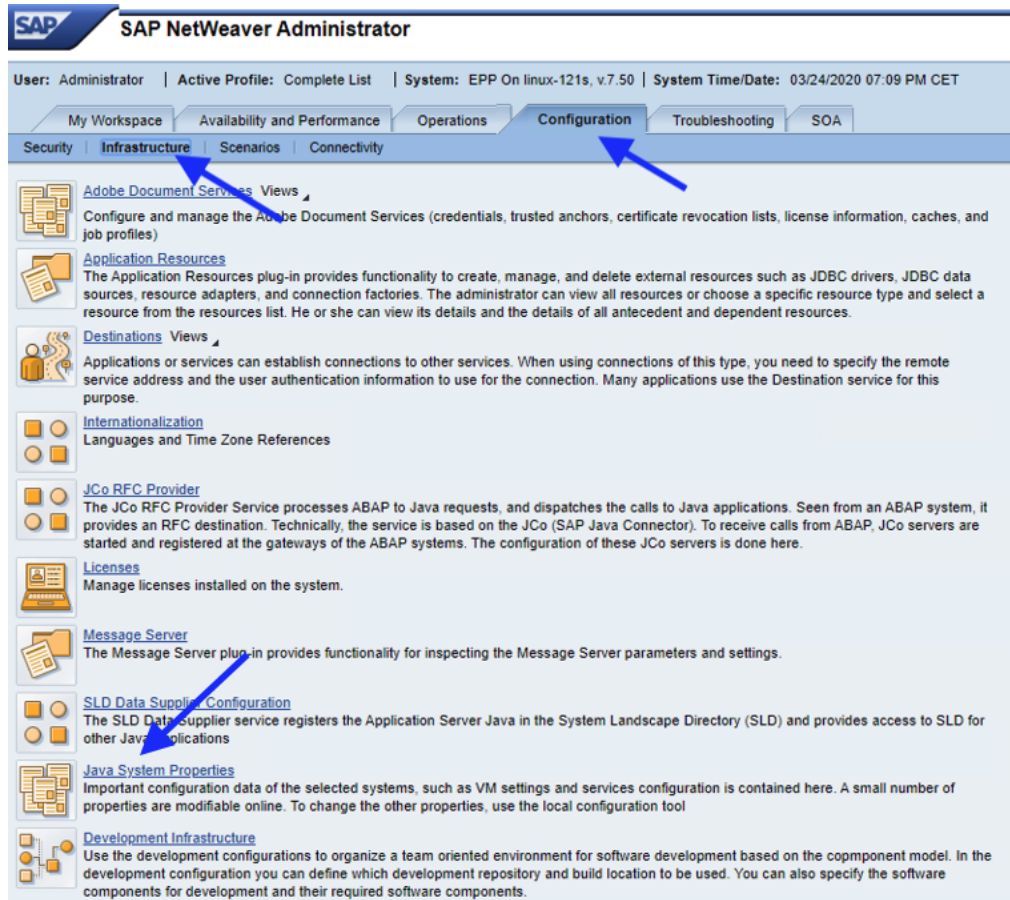
-Dappdynamics.controller.hostName
 -Dappdynamics.controller.port
 -Dappdynamics.controller.ssl.enabled
 -Dappdynamics.agent.applicationName
 -Dappdynamics.agent.tierName
 -Dappdynamics.agent.nodeName
 -Dappdynamics.agent.accountName
 -Dappdynamics.agent.accountAccessKey

3. SAP Configuration

- Open up a command window to cd /usr/sap/EPP/J00/j2ee/configtool
 - (must have xming setup)
 - run ./configtool.sh
- Go to VM Parameters >> Additional
- Add the following parameters
 - Dallow.unsigned.sdk.extension.jar = true
 - Dappdynamics.bciengine.should.implement.new.interfaces = false
 - javaagent:/opt/appdynamics/appagent/current-appd-java-agent/javaagent.jar = blank
- Save to DB by clicking the save icon in the config tool

Portal Settings - (These might be optional)

- Log into portal and set up the same parameters as in the config tool



- Restart SAP java stack

4. Troubleshooting

- SAP startup issue details can be found by opening the logs in the `/usr/sap/"SID"/J00/work/` folder, specifically the files
 - Std.server0.out
 - Dev_server0
- Quick way to get SAP to start again would be to remove the enable option of the new parameters (assuming the above was the only change)
- SAPMMC shows RC-1501 as the reason not starting then follow steps below in the "Extra Configuration" sections

5. Extra Configuration

Edit file `app-agent-config.xml` located in `/opt/appdynamics/conf/` folder in the Java agent directory

Search for “bci-processing-excludes”

Add exclusion

```
<custom-exclude filter-type="STARTSWITH" filter-value="com.sap.engine.core.cluster"/>
```

BT Detection Rules for PI

Agent Type	Java
Entry Point Type	Servlet
HTTP Request Match Criteria	URI Equals “/XISOAPAdapter/MessageServlet”
	HTTP Parameter - Check for existence - “interface”
Split Rule	a parameter value named “interface”

Note that the second split rule adds further clarity by creating BTs based on where the request is going. Remove the split rule 1 to remove excessive BT detection.

Agent Type	Java
Entry Point Type	POJO
Class Name that Equals	com.sap.aii.af.app.listener.AFWListenerBean
Method Name Equals	onMessage
Split Rule 1	Parameter index 0
Getter Chain	getService().toString()
Split Rule 2	Parameter index 0
Getter Chain	getAction().getName()

Hybris REST capture

Agent Type	Java
Entry Point Type	Servlet
HTTP Request Match Criteria	URI Starts With “/RESTAdapter/Hybris”

Split Rule	Use first 4 URI segments
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Data Collectors for Addl. Clarity (PI)

AFWBean

Class Name	com.sap.aii.af.app.listener.AFWListenerBean
Method	onMessage
Data	
FromService	ParamIndex_0.getFromService().toString()
Action	ParamIndex_0.getAction().getName()
MessageId	ParamIndex_0.getMessageId()
Description	ParamIndex_0.getDescription()
FromParty	ParamIndex_0.getFromParty().toString()
Protocol	ParamIndex_0.getProtocol()
ToParty	ParamIndex_0.getToParty().toString()
ToService	ParamIndex_0.getToService().toString()
MessageDirection	ParamIndex_0.getMessageDirection().toString()
MessageClass	ParamIndex_0.getMessageClass().toString()

CallAdapterWithMessage

Class Name	com.sap.aii.af.app.modules.CallAdapterWithMessage Bean
Method	process_sender
Data	
FromService	ParamIndex_2.getFromService().toString()
Action	ParamIndex_2.getAction().getName()

MessageId	ParamIndex_2.getMessageId()
ToService	ParamIndex_2.getService().toString()
MessageDirection	ParamIndex_2.getMessageDirection().toString()

IDocMessage

Class Name	com.sap.aia.af.idoc.outbound.IDocOutboundProcessor
Method	processXIMessage
Data	
IDocOut.FromService	ParamIndex_0.getService().toString()
IDocOut.Action	ParamIndex_0.getAction().getName()
IDocOut.MessageId	ParamIndex_0.getMessageId()