

# Starting the Journey NOI 1.6

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#### **Netcool Operations Insight 1.6**

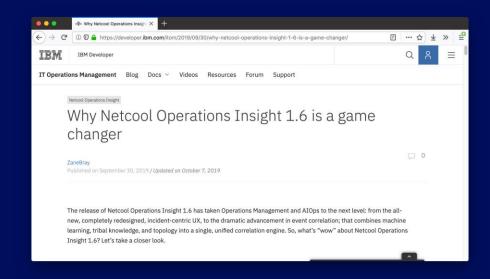
#### You've heard about this...

- New automated analytics
- New correlation engine
- New user experience (UX)

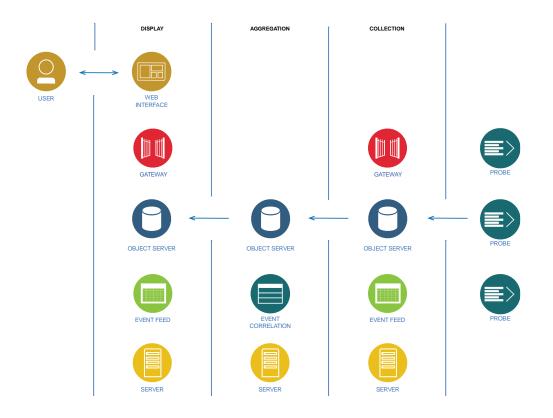
and...

- Deploy on cloud!

But how do you get there?

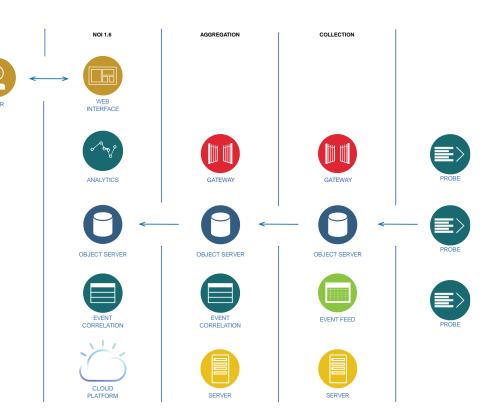


#### Here we are... Netcool 3-Tier



## Here's where we can go...

- We deploy 1.6 in any cloud environment (OpenShift, IBM Cloud Private)
- We introduce a unidirectional gateway to the existing AGG synchronizing events over to the new NOI 1.6 "containerized" environment



# Simple! Right?

# Actually, we need to cover a few things

- Create a Gateway.
- Add entries to your omni.dat for your new 1.6
   Object Server and new Gateway. Generate a new interfaces file.
- 3. Inventory custom fields and custom tables from existing aggregation Object Server.
- 4. Add custom fields and custom tables to new 1.6 Object Server.
- 5. Customize the Gateway's mapping.
- 6. Configure Gateway properties.
- 7. Configure housekeeping on new 1.6 Object Server.
- 8. Other tasks required if migrating completely.

This process models the same outlined in...

"Upgrading IBM Netcool/OMNIbus in Production Environments - Best Practices"

Available here: <a href="http://ibm.biz/nco-bps">http://ibm.biz/nco-bps</a>

#### Create a Gateway

Same as it ever was.

The gotcha? Where do you put it?

Place the new gateway somewhere on-premises.

- New box? Install OMNIbus but need only select...
  - ObjectServer gateways
  - Process agent
- Perhaps co-resident with the existing aggregation Object Server itself?
  - Gateway support likely already present.
  - Also present are the multi-tier configuration files, \${OMNIHOME} extensions/multitier/gateway.

#### Add to omni.dat and interfaces

Know the proxy for the ObjectServer on cloud!

#### **IBM Knowledge Center**

- > Netcool Operations Insight 1.6.0
- > Connecting to event sources
- > Connecting event sources to your Operations Management on IBM Cloud Private deployment

https://www.ibm.com/support/knowledgecenter/en/SSTPTP 1.6.0/com.ibm.netcool\_ops.doc/soc/config/concept/cfg\_configuring-event-sources.html

Make sure the FQDN resolves! Add it to /etc/hosts?

Don't avoid TLS. Practice with it. Get good at it.

#### Inventory custom fields and tables

- Custom fields must be identified and added to both the new 1.6 NOI ObjectServer and the mapping for the Gateway.
- Custom tables may need to be added to the new ObjectServer and Gateway mapping, depending on use.
- nc\_osreport is your friend!

#### **IBM Knowledge Center**

- > Tivoli Netcool/OMNIbus 8.1.0
- > Setting up Tivoli Netcool/OMNIbus
- > Importing and exporting ObjectServer configurations

https://www.ibm.com/support/knowledgecenter/en/SSSHTQ 8.1.0/com.ibm.netcool OMNIb us.doc 8.1.0/omnibus/wip/install/task/omn con importexportobjservosreport.html

#### Add custom fields and tables to NOI 1.6 ObjectServer

We use the output of nc\_osreport to review what customizations have been made.

If customizations need to be brought over, nco\_sql is our friend.

#### **IBM Knowledge Center**

- > Tivoli Netcool/OMNIbus 8.1.0
- > Administering the server components
- > ObjectServer SQL
- > SQL interactive interface

https://www.ibm.com/support/knowledgecenter/en/SSS HTQ 8.1.0/com.ibm.netcool OMNIbus.doc 8.1.0/omnib us/wip/admin/task/omn adm sql usingtxtfilesinput.html If the number of custom fields to be brought over is small, the SQL for nco\_sql could be as simple as just the following...

ALTER TABLE alerts.status ADD COLUMN WidgetcomText VARCHAR(255);

go

ALTER TABLE alerts.status ADD COLUMN WidgetcomInt INTEGER;

go

ALTER TABLE alerts.status ADD COLUMN WidgetcomTime UTC; go

#### Customize the new Gateway's mapping

We use the **C\_TO\_A\_GATE\_P\_1** configuration for gateways from...

\${OMNIHOME}/extensions/multitier

...as our template.

Copy and modify the .map file for fields, .tablrep.def for tables.

Ensure any replicated custom fields are not set ON INSERT ONLY (as many custom fields are set after insert).

When the number of custom fields brought over is small, additions to the mapping file are also minimal...

```
'WidgetcomText' = '@WidgetcomText',
'WidgetcomInt' = '@WidgetcomInt',
'WidgetcomTime',
```

#### Customize the Gateway properties

Again, based on...

```
$OMNIHOME/extensions/multitier/gateway/C_TO_A_GATE_P_1.props
```

... with a Gateway name of TEMP\_GATE, here's a **suggested** set of properties:

MaxLogFileSize : 2048 MessageLevel : 'info'

MessageLog : '\$OMNIHOME/log/TEMP\_GATE.log'

Name : 'TEMP GATE'

Ipc.Timeout : 90

Gate.CacheHashTblSize : 10069

Gate.MapFile : '\$OMNIHOME/etc/TEMP GATE.map'

Gate.Mapper.ForwardHistoricDetails: TRUE Gate.Mapper.ForwardHistoricJournals: TRUE

(continued...)

#### Customize the Gateway properties (cont.)

Gate.StartupCmdFile : '\$OMNIHOME/gates/objserv\_uni/objserv\_uni.startup.cmd'

Gate.Reader.Server : 'OLD\_PROD\_AGG\_P'
Gate.Reader.Description : 'collection\_gate'

Gate.Reader.FailbackEnabled : FALSE Gate.Reader.IducFlushRate : 30

Gate.Reader.TblReplicateDefFile: '\$OMNIHOME/etc/TEMP\_GATE.tblrep.def'

Gate.Reader.IgnoreStatusFilter: TRUE
Gate.Writer.Server: 'ICP\_AGG\_V'
Gate.Writer.Description: 'temp gate'

Gate.Writer.BufferSize : 50
Gate.Writer.FailbackEnabled : FALSE

Gate.Writer.SAF : TRUE

Gate.Writer.SAFFile : '\$OMNIHOME/var/objserv uni/TEMP GATE.store'

Gate.Writer.UseBulkInsCmd : TRUE Gate.Resync.Enable : TRUE Gate.Resync.Type : 'UPDATE' Gate.Resync.LockType : 'NONE'

### Configure housekeeping

Implement housekeeping!

Found in \${OMNIHOME}/extensions/housekeeping

Prevent accumulating events in the new NOI 1.6 ObjectServer on Cloud.

Over time, de-escalates events before finally retiring them.

### Other things to migrate when completely transitioning

- 1. Any custom Impact content
- 2. Any custom WebGUI modifications or additions
- 3. Move users
- 4. Over time, probes get repointed.

Remember, refer to the Best Practices document.

It's really all the same stuff, hidden by a thin layer of clouds.