

# Provisioning a CICS Region using Python and Ansible: Harnessing the power of code

Andrew Hughes  
Software Developer, CICS Modernization  
[andrew.hughes1@ibm.com](mailto:andrew.hughes1@ibm.com)



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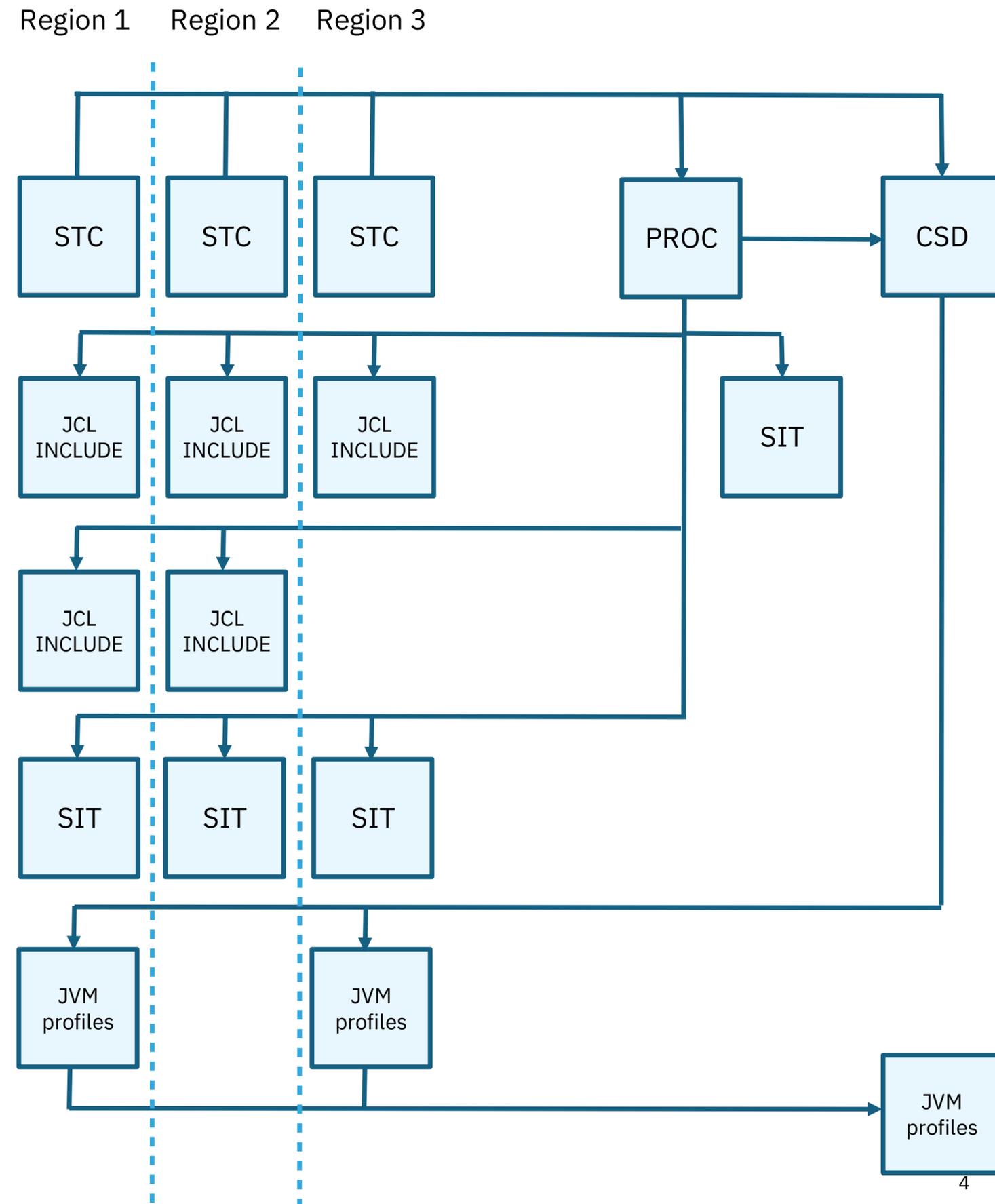
# Agenda

- Why is CICS configuration complex?
- What people are doing today
- How could we simplify it?
- Why should you care?
- How could I automate it?

# What's wrong with CICS configuration

Very complex and suffers from many of these flaws:

- Lots of files
- Lots of formats
- Data spread in many locations
- Convoluted structure
- Lack of clarity of parameters
- Lack of assistance



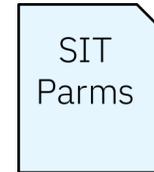
How some clients are  
solving this today

# A Configuration-as-Code z/OS example

Manual

```
APPLID=IYK2ZOE1
SIT=6$
START=INITIAL
CICSSVC=217
GRPLIST=(DFHLIST,A,B)
GMTEXT="Drew's CICS region"
SRBSVC=218
USSHOME=/cics/cics740
SYSIDNT=ZOE1
SEC=YES
```

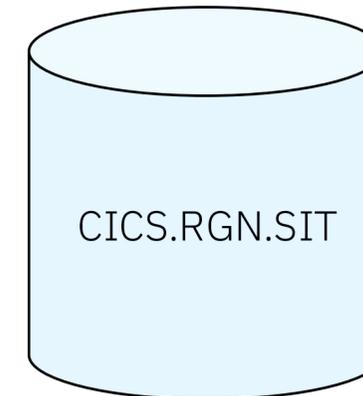
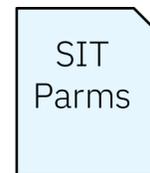
Take JCL SYSIN SIT parameter overrides  
Put them in a regular text file  
Commit the file to repo



Automated



Get SIT parameters from repo  
and put them into a data set (that's  
referenced by my region JCL)



What's the new process for changing my SIT parameters?

- Moved the canonical version of my SIT overrides from z/OS to GitHub
- If anyone wants to change those SIT parameters they can make a **pull request**



**stewartfrancis** approved SIT overrides

11 lines (10 loc) · 163 Bytes

Code

Blame

```
1  APPLID=IYK2Z0E1
2  SIT=6$
3  START=INITIAL
4  CICSSVC=217
5  GRPLIST=(DFHLIST,A,B)
6  GMTEXT="Stew's CICS region'"
7  SRBSVC=218
8  USSHOME=/cics/cics740
9  SYSIDNT=Z0E1
10 SEC=YES
```

What's the new process for changing my SIT parameters?

- Changes can be proposed

# Add the new csd list to grplist #1

Open **stewartfrancis** wants to merge 1 commit into **main** from **new-list**

Conversation 0   Commits 1   Checks 0   **Files changed 1**

Changes from all commits ▾   File filter ▾   Conversations ▾   Jump to ▾   ▾   **Review ▾**

▼ 2 sit.txt

Viewed

↑...	@@ -2,7 +2,7 @@ APPLID=IYK2Z0E1	
2	SIT=6\$	2 SIT=6\$
3	START=INITIAL	3 START=INITIAL
4	CICSSVC=217	4 CICSSVC=217
5	- GRPLIST=(DFHLIST,A,B)	5 + GRPLIST=(DFHLIST,A,B,C)
6	GMTEXT="Stew's CICS region'"	6 GMTEXT="Stew's CICS region'"
7	SRBSVC=218	7 SRBSVC=218
8	USSHOME=/cics/cics740	8 USSHOME=/cics/cics740
↓		

What's the new process for changing my SIT parameters?

- Approved...

# Add the new csd list to grplist #1

 Open

stewartfrancis wants to merge 1 commit into `main` from `new-list` 

Conversation 0

Commits 1

Checks 0

Files changed 1

Changes from all commits ▾ File filter ▾ Conversations ▾ Jump to ▾ 

**Review** ▾

2  2  sit.txt 

Viewed  

↑ @@ -2,7 +2,7 @@ APPLID=IYK2Z0E1

2 SIT=6\$

3 START=INITIAL

4 CICSSVC=217

5 - GRPLIST=(DFHLIST,A,B)

2 SIT=6\$

3 START=INITIAL

4 CICSSVC=217

5 + GRPLIST=(DFHLIST,A,B,C)

Write

Preview

Looks good to me 

**Start a review**

Add single comment

Cancel

6 GMTEXT="Stew's CICS region'"

7 SRBSVC=218

8 USSHOME=/cics/cics740

6 GMTEXT="Stew's CICS region'"

7 SRBSVC=218

8 USSHOME=/cics/cics740

What's the new process for changing my SIT parameters?

- Or rejected...

# Turn off security... #2

Edit

Open

stewartfrancis wants to merge 3 commits into `main` from `sec`

Conversation 0

Commits 3

Checks 0

Files changed 1

+1 -2

Changes from all commits File filter Conversations Jump to

0 / 1 files viewed

Review changes



3 sit.txt

Viewed

@@ -7,5 +7,4 @@ GMTEXT="Stew's CICS region'"

```
7 SRBSVC=218
8 USSHOME=/cics/cics740
9 SYSIDNT=ZOE1
10 - SEC=YES
```

```
7 SRBSVC=218
8 USSHOME=/cics/cics740
9 SYSIDNT=ZOE1
10 + SEC=NO
```

Write

Preview

Are you crazy? Haven't you read Colin's t-shirt?

Add single comment

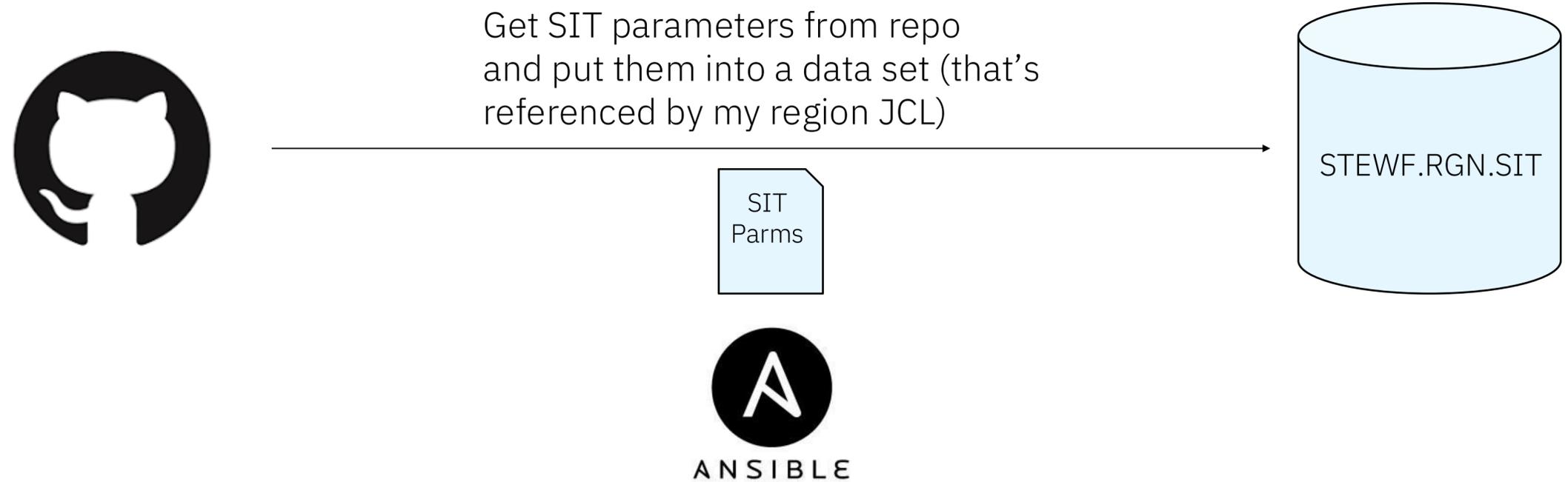
Start a review

Cancel

11 -

# What's the new process for changing my SIT parameters?

- All before the changes are applied to z/OS **at all**
- You can even run automated checks, tests, and scans against the settings
- For instance, ensuring that the settings meet your regulatory requirements
- Once the changes get approved and merged, you can trigger your automated process to make the changes to your system



What's the new process for changing my SIT parameters?

- This leaves a great paper trail, which is useful for audit purposes
- And you can even revert to an old version of the configuration (and run the automated process to deploy the changes)
- This is a great way of managing risk, and is also a really useful productivity tool – no more change paralysis

# Commits

main

All users

All time

Commits on Feb 26, 2025

<b>Merge pull request #1 from stewartfrancis/new-list</b>	b90a5d5		
stewartfrancis committed now			
<b>Add the new csd list to grplist</b>	162526d		
stewartfrancis committed 1 hour ago			
<b>approved SIT overrides</b>	6f977a4		
stewartfrancis committed 1 hour ago			

So what's the problem? Can't we just do this? For all the CICS configuration?

- Clients should go and do this!
  - But it only gets us so far...
- It helps mitigate some of the complexity issues of working with CICS configuration
  - But it doesn't directly address them...
- What can we do to make CICS fundamentally easier to configure and manage?

# What makes CICS configuration complex?

- CICS configuration is **diverse**
- Over the years, CICS has adopted a wide array of different technologies, which each come with their own configuration semantics
- Load modules, CICS Web Services, Java applications, Liberty configuration CSD resource definitions, CICS bundles and their varied resources, CPSM configuration, JVM profiles, resource definition overrides, pipeline config files, SIT parameters, SIT overrides, Node.js, etc
- Each type of configuration has its own semantics, and may require special treatment

No in-editor suggestions

No syntax highlighting

```
APPLID=IYK2ZOE1
SIT=6$
START=INITIAL
CICSSVC=217
GRPLIST=(DFHLIST,A,B)
GMTEXT="Drew's CICS region"
SRBSVC=218
USSHOME=/cics/cics740
SYSIDNT=ZOE1
SEC=YES
```

How does line wrapping work?

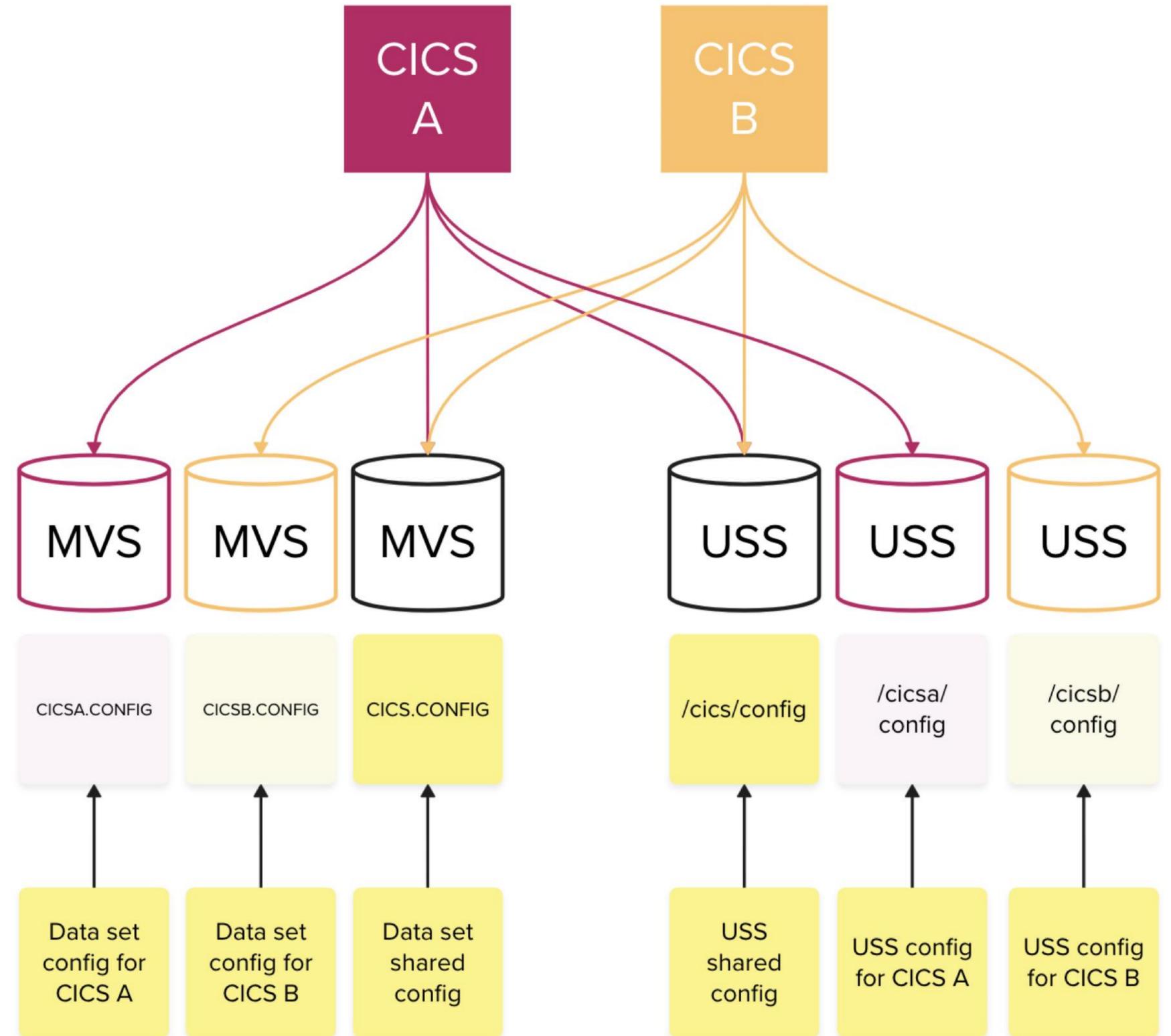
No validation

No integrated doc

What about all the other configuration file formats?

# What makes CICS configuration complex?

- CICS configuration is **shared**
- When you configure CICS, you're not typically configuring an individual system
- Ordinarily, some configuration is shared between CICS regions
  - SIT parameters
  - Load libraries
  - CSD resources
- Whilst other configuration needs to remain distinct
  - Ports
  - Applids
  - CSD resources
  - Load libraries
  - Server.xml
  - SIT parameters
  - Etc
- This mechanism is **bespoke** for each client. There's not a common configuration management system



Let's configure some  
CICS regions...

# CICS TS configuration tool

Translates YAML into target configuration for CICS

- Allocates all the required data sets
- Generates the JCL
- Populates the CSD
- Etc.

No runtime changes – this works with any version of CICS TS

```
ssh hughea@winmvs28.hursley.ibm.com
HUGHEA → ~ $ cicsconfig --help
usage: cicsconfig [-h] [-V] {apply,ls,rm} ...

This tool helps configure CICS TS regions using declarative YAML files. It
supports a configuration-as-code approach, where you define the entire setup
of a CICS region in YAML – including region data sets, system initialization
parameters, and other CICS-specific resources.

options:
  -h, --help      Show this help message and exit.
  -V, --version   Show version of the installed cicsconfig tool.

actions:
  {apply,ls,rm}  Actions
  apply          Apply the configuration to the system
  ls             List all the configurations that have been applied
  rm            Remove the configurations with given ID
HUGHEA → ~ $ █
```

# CICS TS resource builder

- A configuration-as-code tool for managing resource definitions as YAML documents
- System programmers specify a model document, which describes which attributes an application developer can control, and establishes constraints on which values they can have
- Application developers can then author definition files, subject to the constraints provided by the system programmer

```
config > ! cics.model.yaml > ...
CICS resource definition model JSON Schema. (cics-resourcemodel-1.0.0.json)
1  application:
2    name: Mortgages
3    description: Mortgages external web front-end
4    constraints:
5      - id: app-prefix
6        prefix: MTG
7      - id: app-tran-prefix
8        prefix: M
9
10   resourceModel:
11     target: cics
12     defines:
13       - type: program
14         attributes:
15           public:
16             name:
17               required: true
18               constraintId: app-prefix
19           group:
20             required: true
21             constraintId: app-prefix
22       - type: transaction
```

```
config > ! cics.resources.yaml > ...
Mortgages (cics.model.json)
1  ∨ resourceDefinitions:
2  ∨   - program:
3      name: MTGPROG1
4      group: MTGGRP1
5  ∨   - transaction:
6      name: M001
7      group: MTGGRP1
8      program: MTGPROG1
```

# cicsconfig support for resource builder

- The zrb tool can be used to:
  - Generate a schema from the model which can be used to validate the definitions
- Use the model and the definitions to generate input for the DFHCSDUP utility program

```
zrb build -m model.yaml -r defs.yaml -o  
csdup.txt
```

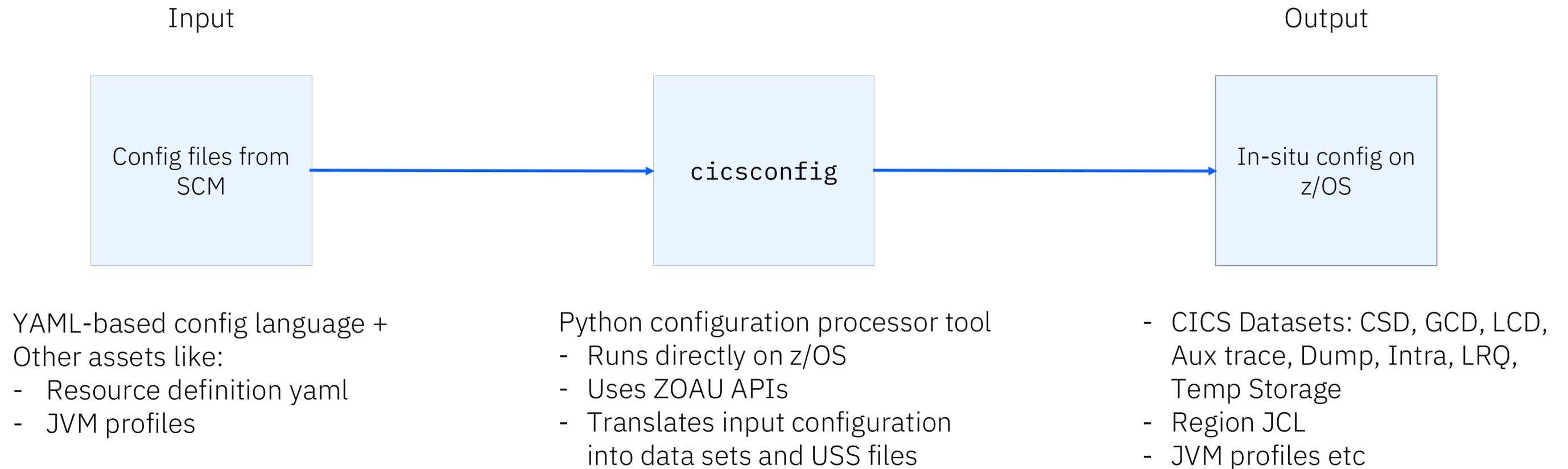
The `cicsconfig` tool has integrated support for resource builder yaml files

... and can automatically add their content to the CSD at configuration-time

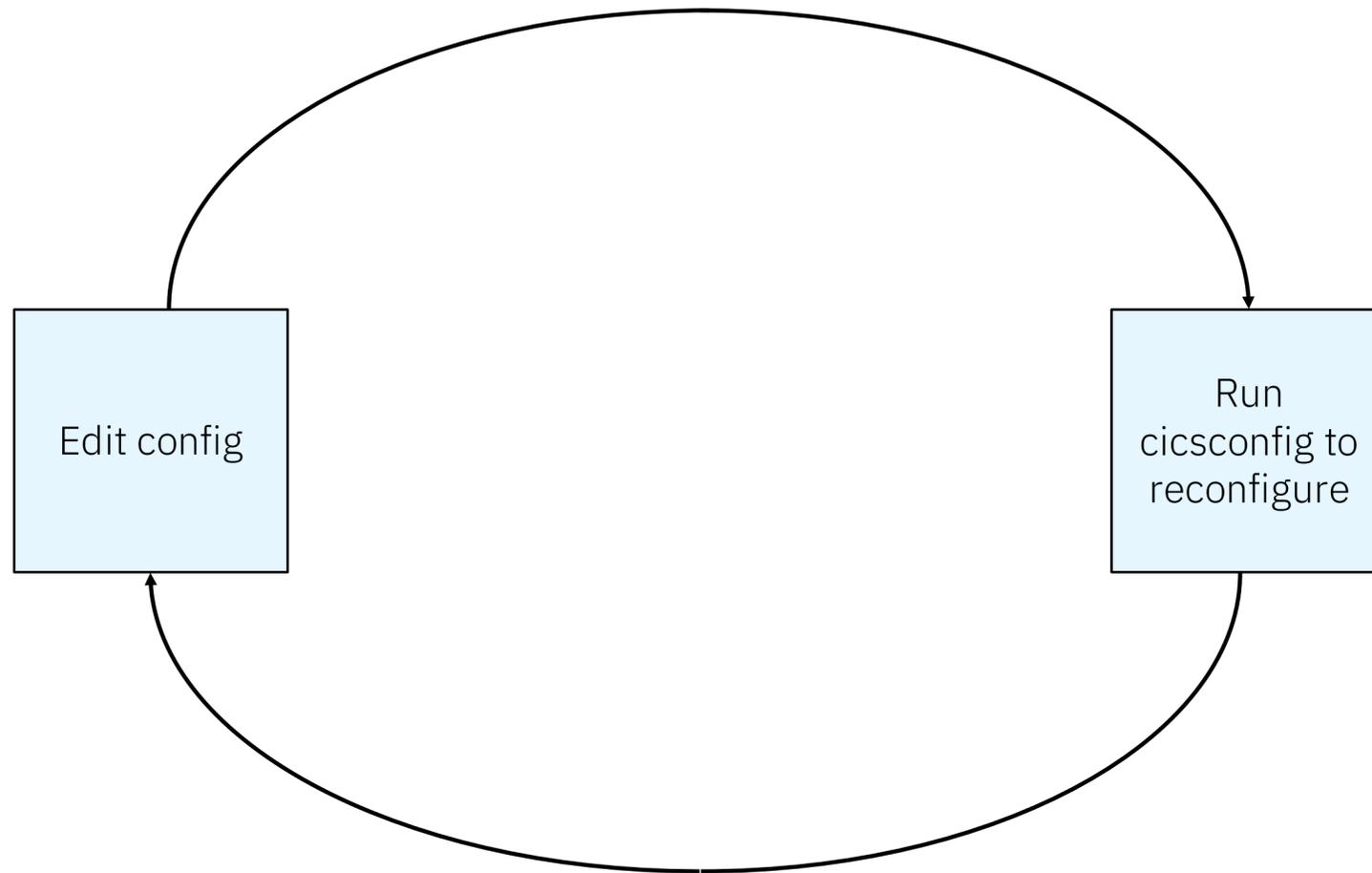
```
csd:  
  content:  
    - type: resource_builder  
      model: catman.cicsresourcemodel.yaml  
      definitions: catman.cicsresourcedefinitions.yaml
```

\* But it also supports CSDUP scripts as a way of updating your CSD.

# High level architecture



# Why is it important that it's declarative?



- You specify what – not how. The tool knows how to translate YAML into configuration that CICS already understands
- Declarative config is much easier to implement and reason about
- No confusing separation of provision/deprovision
- Deploying any configuration change is the exact same process
- Config files represent the truth of how the system is configured – no configuration drift

# What else can it do?

# Configuring CMCI JVM server in our SMSS region

We're going to follow the documentation: <https://www.ibm.com/docs/en/cics-ts/6.x?topic=cmci-setting-up-in-single-cics-region>

We need to:

- Set the CPSMCONN=SMSSJ SIT parameter
- Add the EYUSMSS DD the JCL to set the generated port, and other parameters
- Create the EYUSMSS.jvmprofile
- Set the JVM profile dir

## Setting up CMCI in a single CICS region

Last Updated: 2025-06-30

To manage a CICS® region that is not part of any CICSplex by an HTTP client, you must set up the [CICS management client interface \(CMCI\)](#) in this region to turn it into a CICS System Management Single Server (SMSS). You can either configure the basic CMCI or the CMCI JVM server.

The CMCI JVM server is a Liberty server that supports the CMCI REST API, enhanced client authentication, the CMCI GraphQL API, CICS MCP server, and the CICS bundle deployment API.

**Note:** This configuration procedure uses the CMCI JVM server to configure the CMCI in a single CICS region. If you don't want the CMCI JVM server, you can set up the basic CMCI by following instructions in [Setting up CMCI in a single CICS region in the CICS TS 5.5 product information](#).

These instructions cover how to install the CMCI JVM server in a single CICS region, including how to remove any existing basic CMCI configuration, if any. The CMCI JVM server (EYUCMCIJ) is automatically created in a SMSS region by setting the **CPSMCONN** system initialization parameter to SMSSJ. Resources required by the CMCI JVM server are automatically created, and the server is automatically configured. You then add a DD statement to the region for the **EYUSMSS** data set to initialize it. A sample JVM profile (EYUSMSSJ.jvmprofile) is also provided for configuring the CMCI JVM server further.

### Before you begin

#### Planning for CMCI setup

- To use the CMCI GraphQL API, the CICS bundle deployment API (extra configuration needed) or enhanced client authentication (such as multifactor authentication (MFA) you must use the CMCI JVM server with the CMCI. You can also use the CICS MCP server in a single CICS region. You can also configure CICS MCP server in a single CICS region.
- The CMCI JVM server must be dedicated to hosting the CMCI. Do not use the CMCI JVM server to host other applications. Because a CICS region can host multiple JVM servers, use a separate JVM server to run applications.
- Estimate storage requirements for the CMCI.

You can use the following values as an initial estimate for 24-bit and 31-bit storage:

- 24-bit storage: 512 KB
- 31-bit storage: 100 MB

This is because the supplied JVM profile disables the use of the shared library region, which reduces the amount of non-CICS 31-bit storage required. By default, the JVMSERVER resource that is automatically created for the CMCI JVM server has a value of 15 for the **THREADLIMIT** attribute. As the workload changes, for example, if you change the number of threads, you need to recalculate the storage requirements as described in [Calculating storage requirements for JVM servers](#).

For 64-bit storage, calculate their requirements as described in [Estimating storage requirements for CMCI](#).

#### System requirements for the CMCI JVM server

- Your CICS region must be at CICS TS 5.6 with APAR PH35122, or a later release.
- Verify that all of the required Java™ components are installed. You can follow the [Java components checklist](#).
- You must have set up Java support in CICS. That is, you have also set the JVM profile location and grant the CICS region required access. For instructions, see [Setting up Java support](#).

#### Additional requirements for enabling connections with multi-factor authentication (MFA) credentials

You must have IBM® Multi-Factor Authentication for z/OS® or an equivalent product configured with RACF® to support multi-factor authentication. If you use an alternative external security manager (ESM), refer to your vendor for details.

#### Additional requirements for enabling CICS bundle deployment API

For the minimum CICS TS version required for the region to be configured with the API, see Software requirements at [Configuring the CMCI JVM server for the CICS bundle deployment API](#).

#### Additional requirements for advanced capabilities in CICS Explorer®

For the region version requirements for the aggregation function, the Map view, and sign-on with MFA credentials in CICS Explorer, see [Configuring for CICS Explorer](#).

### Procedure

If your region is not configured with any CMCI yet, skip to Step 2.

- If your CICS region is already configured with the basic CMCI, remove the TCPIPSERVICE and URIMAP resources that you installed when [configuring the basic CMCI](#), and ensure that they are not reinstalled at CICS restart. For example, you can remove them from any group list that is autoinstalled at CICS startup. This is to avoid conflicts with the resources required by the CMCI JVM server. If the region starts with previous resources installed and the CMCI JVM server configured, **EYUNX0110W** or **EYUNX0013E** is issued.
- Review or change your CICS startup JCL:
  - Ensure the *hLq*.CPSM.SEYUAUTH library is added to the STEPLIB concatenation, where *hLq* is your high-level qualifier; for example CICS63 for CICS TS beta
  - Ensure the *hLq*.CPSM.SEYULOAD library is added to the DFHRPL concatenation, where *hLq* is your high-level qualifier; for example CICS63 for CICS TS beta.

These libraries must be at the same CICS TS level as those for CICS; that is, the same as the CICS *hLq*.CICS.SDFHAUTH and *hLq*.CICS.SDFHLOAD libraries in the STEPLIB concatenation.

- Specify storage limits on the following parameters, according to the estimate you get from Step 3 of Before you begin.

Parameters	Storage affected
<b>EDSALIM</b> system initialization parameter	31-bit (above 16 MB, above-the-line) storage
z/OS <b>MEMLIMIT</b> parameter	64-bit (above-the-bar) storage
z/OS <b>REGION</b> parameter	24-bit storage (below 16 MB, below-the-line) 31-bit storage

- Add the following system initialization parameters to the region:

SIT parameters	Description
<b>CPSMCONN=SMSSJ</b>	Automatically creates a Liberty JVM server named EYUCMCIJ, which will run the CMCI JVM server.
Other system initialization parameters in the <a href="#">Mapping between region SIT parameters and CMCI JVM</a>	The CMCI JVM server is autoconfigured using the values of these mapped system initialization parameters. Review and update these parameters as needed. For example, if you need to enable authentication for the CMCI, you need to set <b>SEC</b> to YES

Let's add some Java...

# Variables

Variables borrow Ansible syntax. Unlike Ansible, you can't use arbitrary Jinja expressions

Variables can be provided on the CLI or specified in a vars block in the YAML

Variables can be used to construct the value of any property

The value of any property can be used as a variable too!

Order in the document doesn't matter!

```
cicsconfig apply region.yaml
```

```
vars:  
  sysid: ZOEA  
  cics_region:  
    sysid: "{{ vars.sysid }}"  
    applid: "{{ cics_region.applid }}"  
  .  
  .  
  .
```

```
cicsconfig apply -e sysid=ZOEA  
  region.yaml
```

```
cics_region:  
  sysid: "{{ vars.sysid }}"  
  applid: "{{ cics_region.applid }}"  
  .  
  .  
  .
```

# Extensions

What if there was an even simpler way to configure CMCI in a CICS region, that felt more native?

Cicsconfig YAML supports an extensions property which we can use as a mechanism to implement that

Extensions can programmatically contribute additional configuration, that's not built into the underlying YAML document, at the time the configuration is applied

Our intention is to open up the extension python API to clients, and vendors

```
cics_region:  
  ...  
  extensions:  
    cics_cmci:  
      cmci_port: 12345  
      ssl: "YES"  
      cmci_auth: BASIC
```

TODO list:

- Add EYUSMSS DD
- Populate with config
- Set SIT parameter CPSMCONN to SMSSJ

# JVM profiles

Top level configuration option for JVM profile directory

This is used to set the JVMPROFILEDIR sit parameter in the JCL

JVM profiles can be specified in-line, or alternatively external files can be referenced

However they're specified, profiles are copied into the target `jvm_profile_dir` so they'll be available to the resulting region

```
jvm_profile_dir: /u/hughea/{{ vars.applid }}/jvmprofiles
```

```
jvm_profiles:
```

- name: EYUSMSSJ  
existing: true  
source\_path: /u/hughea/jvmprofiles
- name: OTHER  
existing: false  
properties: |  
WORK\_DIR=.  
-Xms128M  
-Xmx1G  
-Xmso1M  
-Dfile.encoding=ISO-8859-1  
...

Why should you care?

# Advantages

Benefits include:

- Auditability
- Back-out
- Consistency
- Reduced risk
- Faster deployment

Every change (e.g. JCL, CSD resources, etc) is associate with a reviewed SCM commit

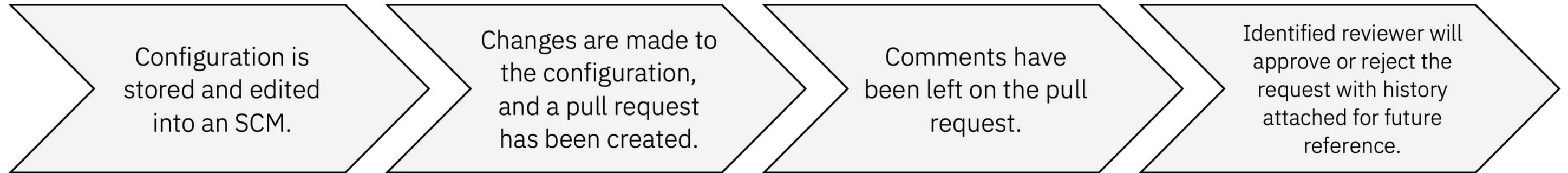
Undo the last commit

Environments built from the same SCM commit are de-facto consistent

All deployments follow the same automated process, no manual intervention

Any changes can be deployed in the same way, with an SCM commit

# Auditable process



cics-region-config / region.yaml

stewartfrancis use cmci feature 5bc8be2 · 2 months ago History

Code Blame 47 lines (39 loc) · 984 Bytes

```

1 vars:
2   sysid: "Z0EA"
3 cics_region:
4   applid: IYK2{{ cics_region.sysid }}
5   sysid: "{{ vars.sysid }}"
6   region_hlq: CTS.STEWF.REGIONS.{{ cics_region.applid }}
7
8   cics_hlq: CTS620.CICS750
9   cpsm_hlq: CTS620.CPSM620
10
11  cics_data_sets:
12    sdfhlic: CTS620.CICS750.LIC.SDFHLIC
13
14  region_jcl:
15    job_parameters:
16      region: 0M
17
18  csd:
19    content:
20      - type: resource_builder
21        model: catman.cicsresourcemodel.yaml
22        definitions: catman.cicsresourcedefinitions.yaml
23
  
```

region.yaml

```

@@ -3,28 +3,28 @@
3  cics_region:
4    applid: IYK2{{ cics_region.sysid }}
5    sysid: "{{ vars.sysid }}"
6    region_hlq: CTS.STEWF.REGIONS.{{
cics_region.applid }}
7
8    cics_hlq: CTS620.CICS750
9    cpsm_hlq: CTS620.CPSM620
10
11   cics_data_sets:
12     sdfhlic: CTS620.CICS750.LIC.SDFHLIC
13
14   region_jcl:
15     job_parameters:
16       region: 0M
17
18   csd:
19     content:
20       - type: resource_builder
21         model: catman.cicsresourcemodel.yaml
22         definitions:
23           catman.cicsresourcedefinitions.yaml
24
25   extensions:
26     cics_cmci:
27       - cmci_port: 28387
28       - cmci_auth: BASIC
29       - ssl: "YES"
  
```

stewartfrancis commented now View reviewed changes

region.yaml

```

... @@ -23,8 +23,8 @@ cics_region:
23 23
24 24     extensions:
25 25     cics_cmci:
26 - cmci_port: 28387
27 - cmci_auth: BASIC
26 + cmci_port: 28388
  
```

stewartfrancis now Owner Author

Looks good to me

Reply...

Resolve conversation

This branch has no conflicts with the base branch

This repository has pre-receive hooks that run on merge.

Merge pull request

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

# How does this simplify the configuration?

Unified model for ‘all’ CICS configuration

Standardized configuration into a single format that is incredibly popular in the industry

Powerful editing support with:

- Code-completion (type-ahead suggestions)
- Integrated documentation
- Validation

Introduced higher-level configuration semantics:

- Naming conventions
- Sensible defaults
- Extensions

But also....

Standardized deployment mechanism for ‘any’ configuration change – e.g. could be automated in a pipeline with Ansible.

Workflow based on technologies that are common in the industry.

Let's automate this!

# Red Hat® Ansible® Certified Content for IBM Z®: Collections

Available on Ansible Galaxy [here](#) and on Automation Hub

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Collectively

- 83 Modules
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# Ready to try it out?

CICS TS configuration tool is available on the CICS TS Ruby Beta site:

[ibm.biz/cicsconfig-beta](https://ibm.biz/cicsconfig-beta)

Documentation available online:

[ibm.biz/cicsconfig-docs](https://ibm.biz/cicsconfig-docs)

The screenshot shows the IBM Documentation page for the CICS Transaction Server configuration tool. The page has a top navigation bar with the IBM logo, 'Documentation', and a search bar. The main content area is titled 'CICS Transaction Server configuration tool' and includes a table of contents on the left. The table of contents is expanded to show the 'Welcome' section, which includes links to 'Release notes', 'Conventions used in this documentation', 'Overview', 'Planning', 'Installing', 'Using schemas', 'Using YAML files for configuring CICS regions', 'Running CICS TS configuration tool', 'Reference', 'Troubleshooting', 'Glossary', and 'Notices'. Below the table of contents is a section for 'Announcements & sales manuals'. On the right side of the page, there is a 'Resources' section with two entries: 'IBM Support Portal' and 'IBM Redbooks'. The footer of the page contains the IBM logo, 'Contact IBM', 'Privacy', 'Terms of use', 'Accessibility', and 'IBM Documentation Help'.

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Show full table of contents

Filter on titles

**Welcome**

- Release notes
- Conventions used in this documentation
- Overview >
- Planning
- Installing
- Using schemas
- Using YAML files for configuring CICS regions >
- Running CICS TS configuration tool
- Reference >
- Troubleshooting >
- Glossary
- Notices

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# Questions