

CFENGINE IN A DAY

BEFORE WE START

SCHEDULE

- 9:30 AM - 5:00 PM
- We will check need for breaks at the end of each section

USE THE SOURCE

github.com/nickanderson/cfengine-training

HI, I'M NICK

- Wife, 2 kids and a dog
- Sysadmin/Infrastructure Engineer/Doer of things
- CFEngineering since ~2010
- Find me online
 - nick.anderson@northern.tech | <https://cfengine.com/author/nick-anderson/>
 - [@nickanderson@fosstodon.org](https://fosstodon.org/@nickanderson) | [@cmdln](https://cmdln.org)
 - [nick@cmdln.org](https://cmdln.org/nick) | <https://cmdln.org>
 - linkedin.com/in/hithisisnick
 - 9274 E588 E866 A10B 713C 9CCD 9EB3 AD42 5D1C CC11

WHO ARE YOU?

- Name
- Role
- Goals for this training

WHAT THIS TRAINING COVERS

- What is CFEengine
- High level architecture overview
- Language fundamentals (through CFEengine 3.21.0)
- Examples and Exercises
- Useful tooling and tips

WHY AUTOMATION?

*Every time someone logs onto a system by hand,
they jeopardize everyone's understanding of the
system. – Mark Burgess*

WHAT IS CFENGINE?

- Secure
- Scalable
- Agile **infrastructure automation tool**

HISTORY

- Written by Mark Burgess
- Originally released in 1993.
- Computer Immunology (Self Healing) 1998
- CFEEngine 2 (1998)
- Promise Theory (2005)
- CFEEngine 3 (2008)
- Company Founded (2008)

SMALL

As of Feb 2020:

- Lines of code ~ 115k
- ~ 6M Package size
- Memory Utilization: ~ 80MB
 - cf-agent ~ 30MB
 - cf-serverd ~ 30MB
 - cf-execd ~10MB
 - cf-monitord ~ 10MB

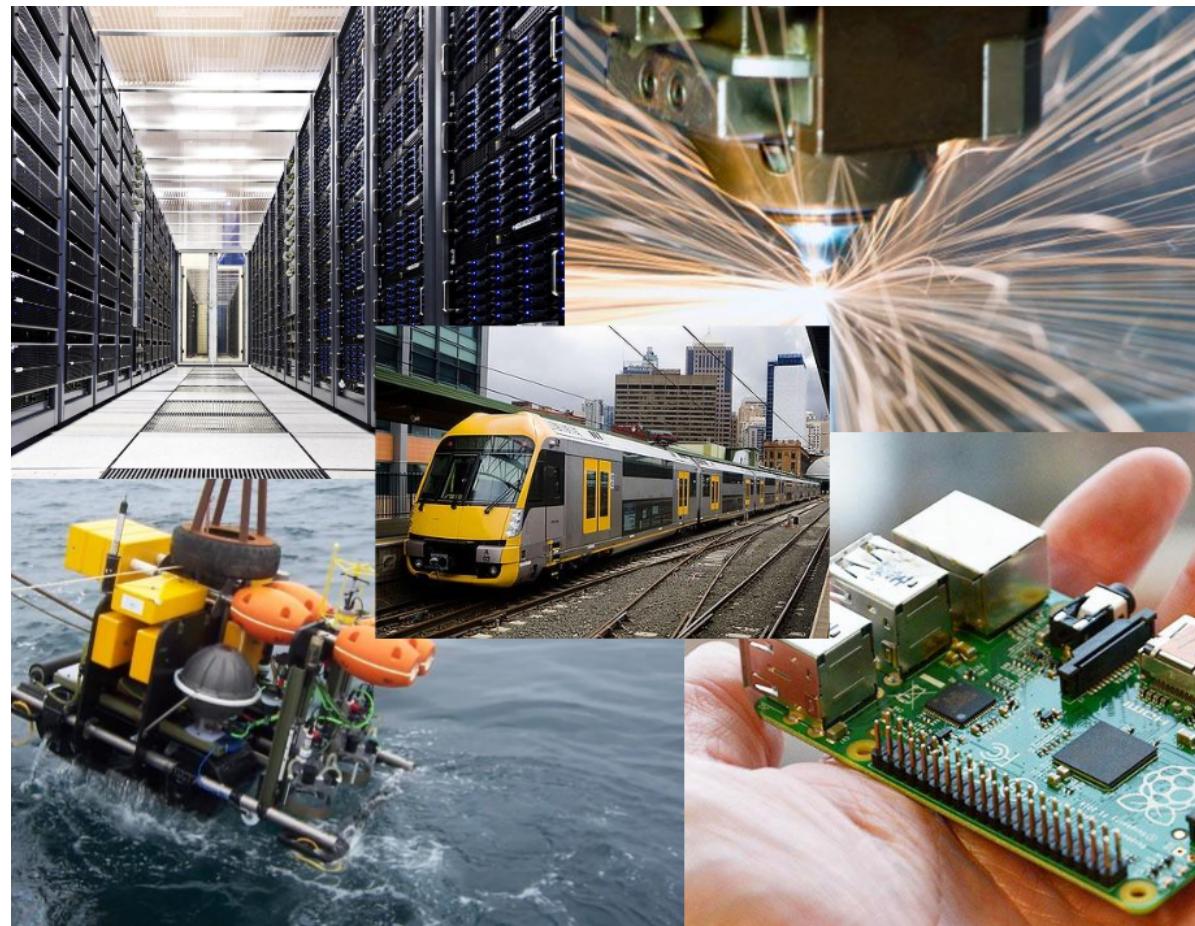
SECURE

A good track record.

- <http://web.nvd.nist.gov/view/vuln/search>

PORTABLE

Known to run on many platforms, and interesting places.



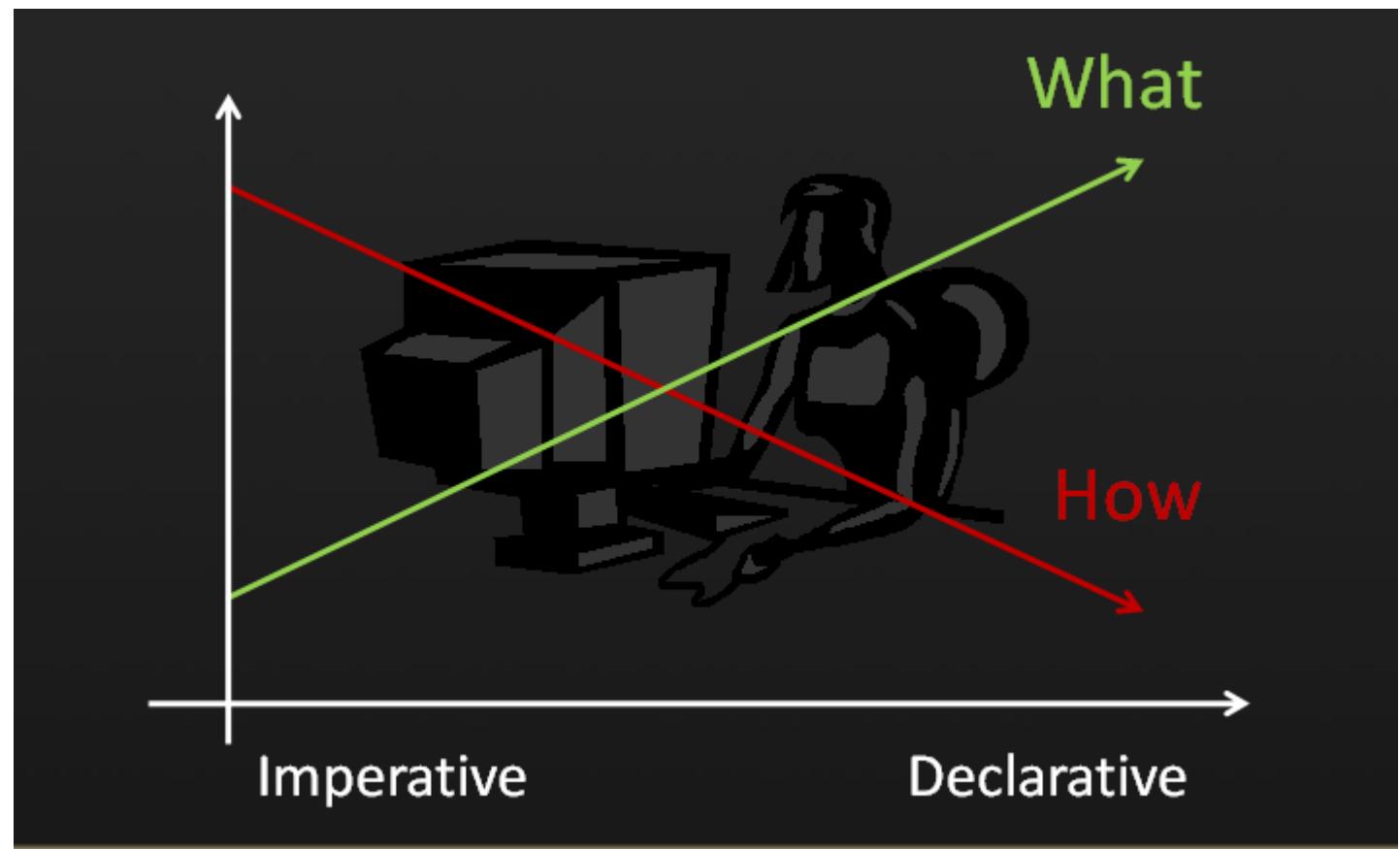
RESILIENT & AUTONOMOUS



- Policy cached locally
- Decisions made locally
- Actions taken locally
- Convergence, repair what you can and revisit soon

DECLARATIVE

Focus on the **desired end state**.



DECLARATIVE VS IMPERATIVE

```
bundle agent main
{
  packages:
    "openssh-server"
      policy => "present",
      version => "latest";
}                                |#!/bin/env/bash
                                |PKG="openssh-server"
                                |rpm -q ${PKG} || yum install ${PKG}
                                |yum check-update openssh-server
                                |if [ $? -eq 100 ]; then
                                |  yum upgrade openssh-server
                                |fi
```

TYPICAL USE CASES

- Any **local** resource/state
 - Manage files, processes, commands
- Security Hardening
- Compliance
- Application Deployment/Management
- Inventory

EDITIONS

COMMUNITY (CORE)

- Github
- Tarballs
- Binary Packages
- Linux Package Repositories

ENTERPRISE FEATURES

- Mission Portal (Web UI)
- Alerts and Triggered Actions
- Inventory Reporting
- Change Reporting
- Compliance Reporting
- File Integrity Monitoring
- Measurements
- REST APIs
- SQL Reporting
- Single Pane of Glass Reporting

ENTERPRISE

- Vagrant Environment
- Binary Packages

RELEASE SCHEDULE

- Every 6 months
- New LTS series every 1.5 years

CURRENT RELEASES

- 3.18 (June 2021 - June 2024)
 - 3.18.2 (June 2022)
- 3.21 (December 2022 - December 2025)
 - 3.21.0 (December 22nd 2022)

TOOLS

cf-remote

Tooling to facilitate the deployment of CFEngine.

Commands (use cf-remote COMMAND --help to get more info):

{info,install,uninstall,packages,list,download,run,save,sudo,scp,spawn,show,destroy,deploy}	
info	Get info about the given hosts
install	Install CFEngine on the given hosts
uninstall	Install CFEngine on the given hosts
packages	Get info about available packages
list	List CFEngine packages available for download
download	Download CFEngine packages
run	Run the command given as arguments on the given hosts
save	Save host(s) with a group name to use in other commands
sudo	Run the command given as arguments on the given hosts with 'sudo'
scp	Copy the given file to the given hosts
spawn	Spawn hosts in the clouds
show	Show hosts spawned by or added to cf-remote
destroy	Destroy hosts spawned in the clouds
deploy	Deploy policy-set (masterfiles) to hub

INSTALL cf-remote

```
exec 2>&1
pip3 install cf-remote
:
```

INSTALL AND BOOTSTRAP WITH cf-remote

Install and bootstrap remote hosts

```
cf-remote install --hub 34.252.28.73 --bootstrap 172.31.30.237
```

LEARN MORE ABOUT cf-remote

- <https://cfengine.com/tags/cf-remote/>
- <https://github.com/cfengine/core/tree/master/contrib/cf-remote>

cfbs

Manage CFEngine Build projects (adding modules, policy files, updating etc.)

```
usage: cfbs [-h] [--loglevel LOGLEVEL] [--version] [--force]
            [--non-interactive] [--index INDEX] [--check]
            [--checksum CHECKSUM] [--keep-order] [--git {yes,no}]
            [--git-user-name GIT_USER_NAME] [--git-user-email GIT_USER_EMAIL]
            [--git-commit-message GIT_COMMIT_MESSAGE] [--ignore-versions-json]
            [cmd] [args ...]
```

CFEngine Build System.

positional arguments:

cmd

The command to perform (add, build, clean, commit, download, help, info, init, input, install, pretty, remove, search, show, status, update, validate)

args

Command arguments

INSTALL cfbs

```
exec 2>&1
pip3 install cfbs
:
```

INITIALIZE A PROJECT

```
exec 2>&1
cfbs init
:
```

BUILD A PROJECT

```
exec 2>&1  
cfbs build  
:
```

cf-locate

cf-locate

Command line tool to help locate and optionally display a body or bundle within a policy

INSTALLING cf-locate

It's a perl script and you will need File::HomeDir.

```
exec 2>&1
sudo apt install libfile-homedir-perl
curl https://raw.githubusercontent.com/cfengine/core/master/contrib/cf-locate/cf-locate --o
chmod 700 ~/.local/bin/cf-locate
:
```

USING CF-LOCATE

```
exec 2>&1
~/.local/bin(cf-locate results | ansi2txt
:
```

```
-> body or bundle matching 'results' found in /home/nickanderson/.cfagent/inputs/failsafe.cf:
body classes failsafe_results(scope, class_prefix)
-> body or bundle matching 'results' found in /home/nickanderson/.cfagent/inputs/lib/common.cf:
body classes results(scope, class_prefix)
-> body or bundle matching 'results' found in /home/nickanderson/.cfagent/inputs/lib/common.cf:
body classes diff_results(scope, x)
```

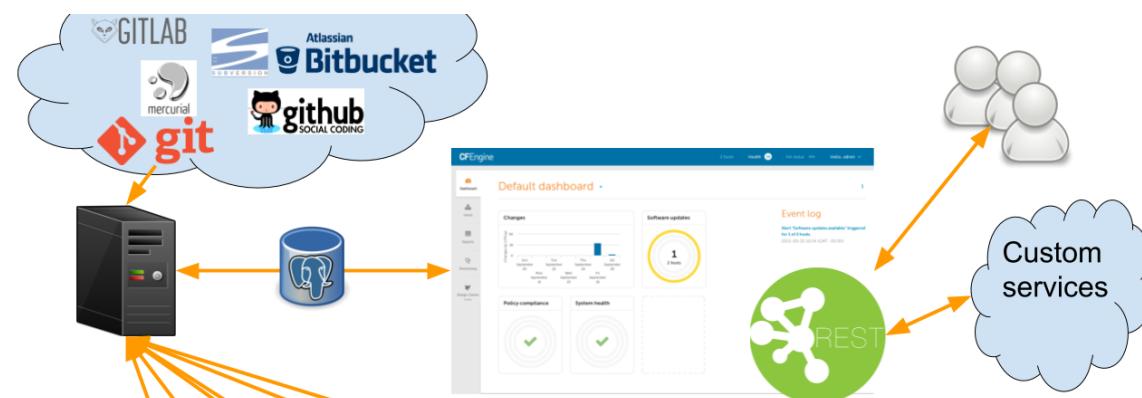
masterfiles-stage

- Maintain multiple checkouts of policy sets.

CLIENT/SERVER ARCHITECTURE

Enterprise Hub

- Policy Server
- Report Collection
- Reporting Portal
- REST API Server



CFEngine Clients

- Cache policy locally
- Execute cached policy

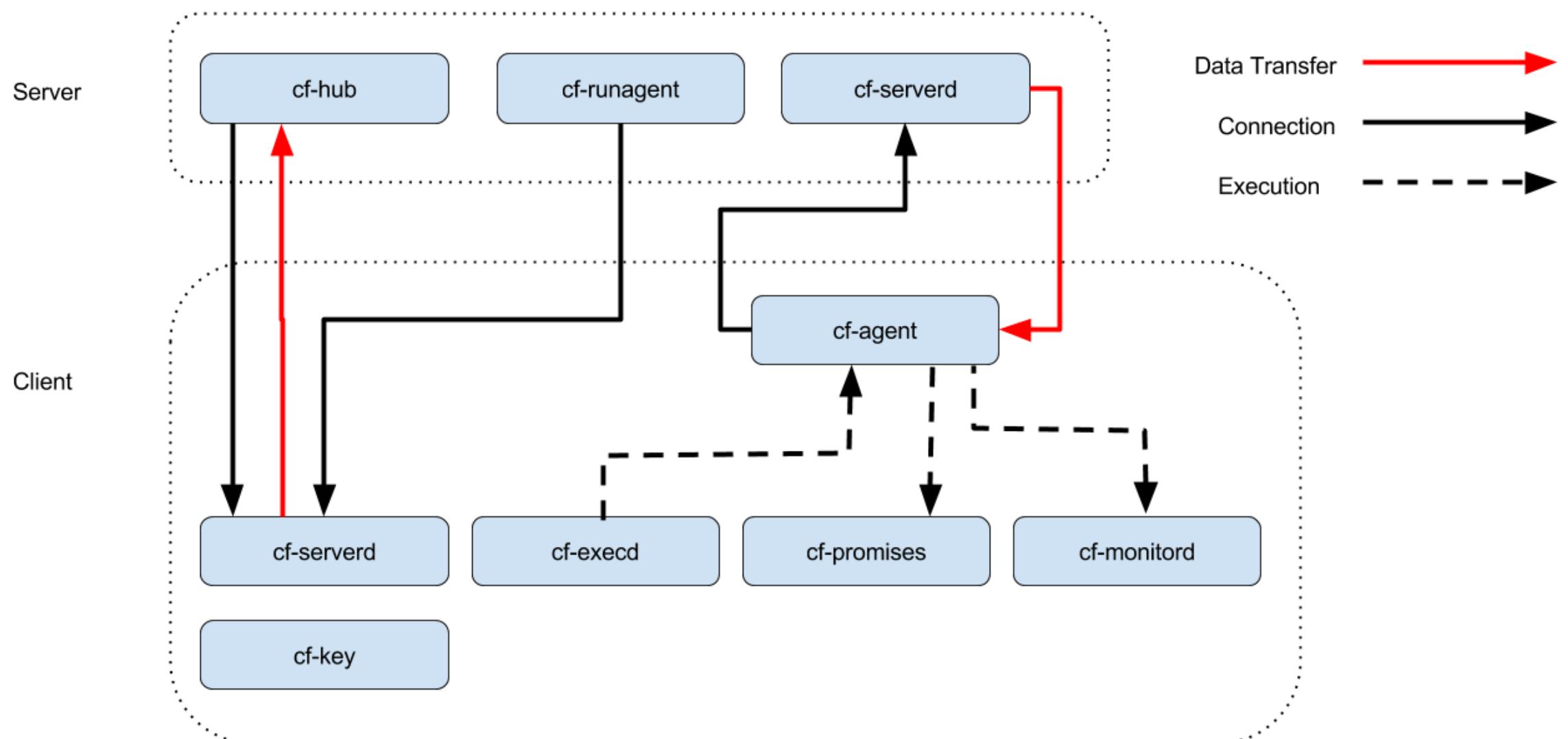


CLIENT SERVER COMMUNICATIONS

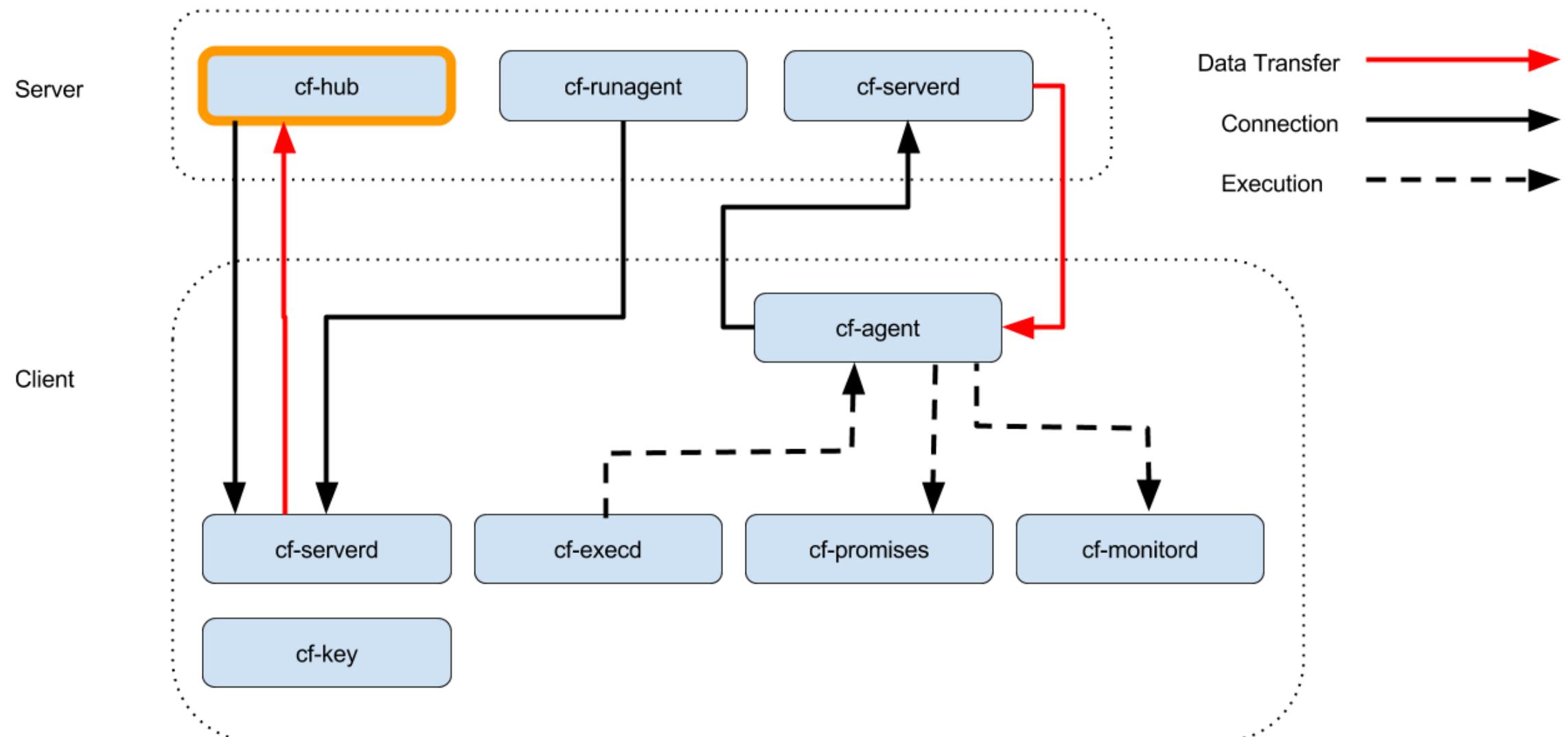
- Utilizes port 5308 (grep 5308 /etc/services)
- Encrypted (TLS)
- Public key authentication (**key exchange required**)
- Agents download policy from hub
- Hub downloads reports from remote agents

AGENT COMPONENTS

AGENT COMPONENTS

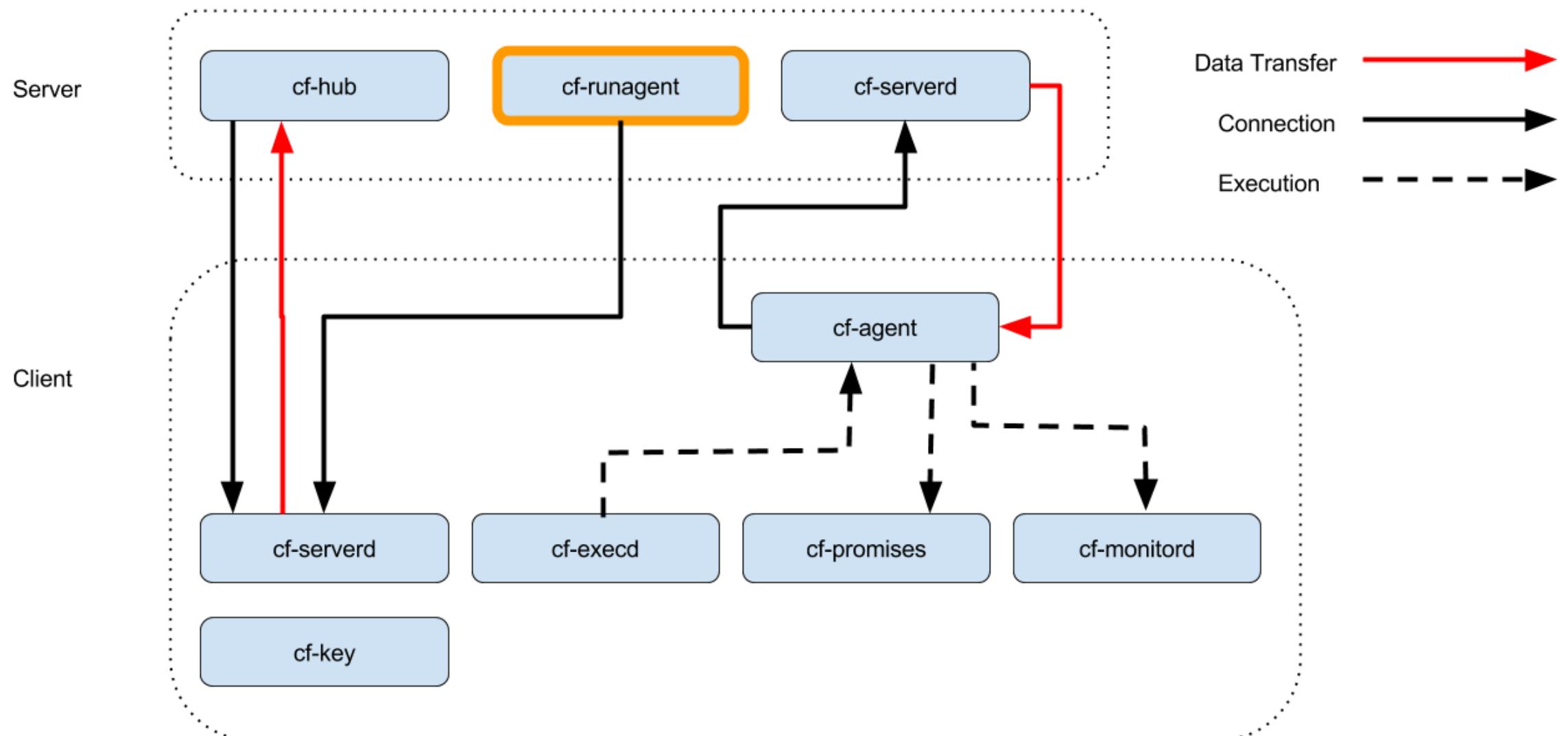


cf-hub



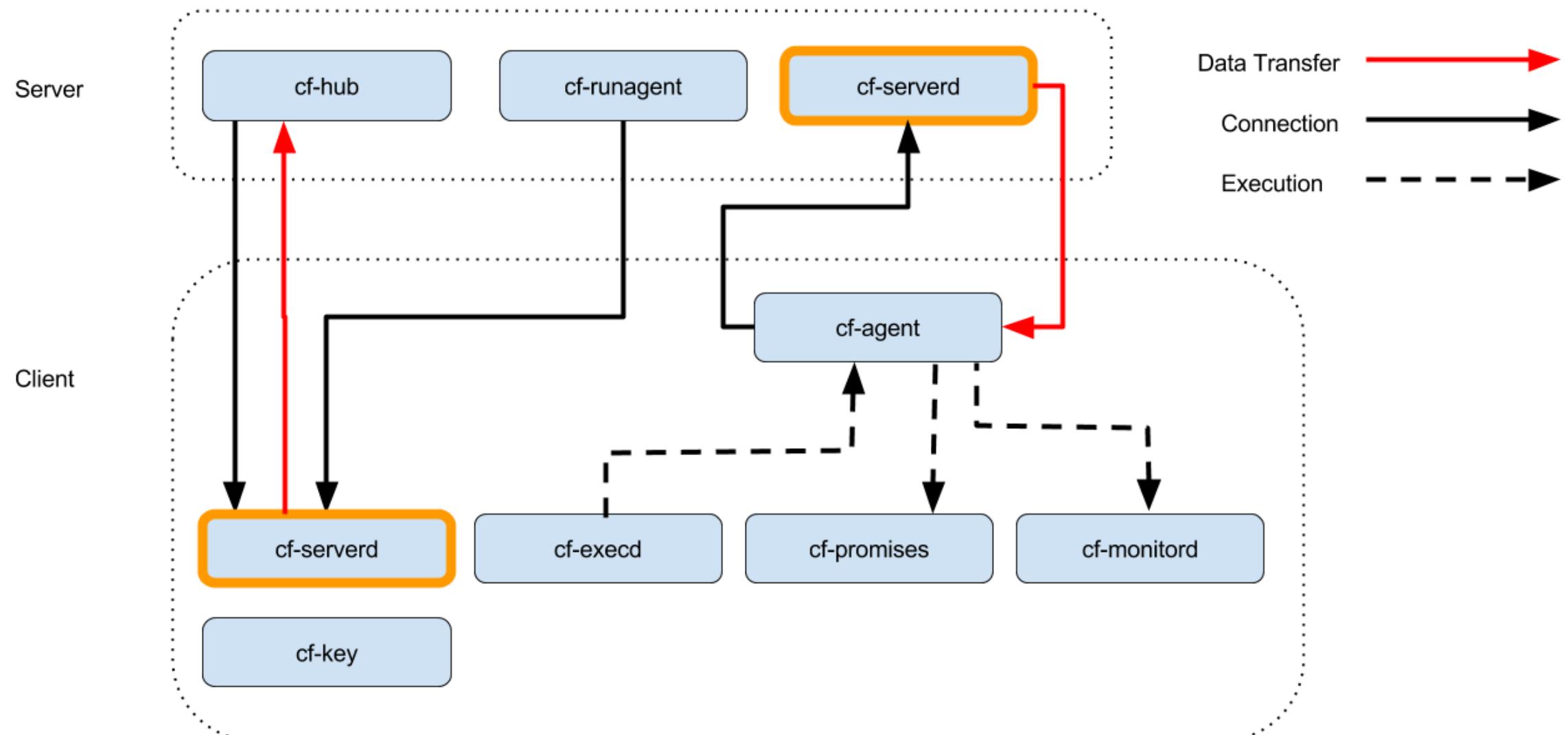
- Collects reports from remote agents
- Obeys "common control" and "hub control" bodies

cf-runagent



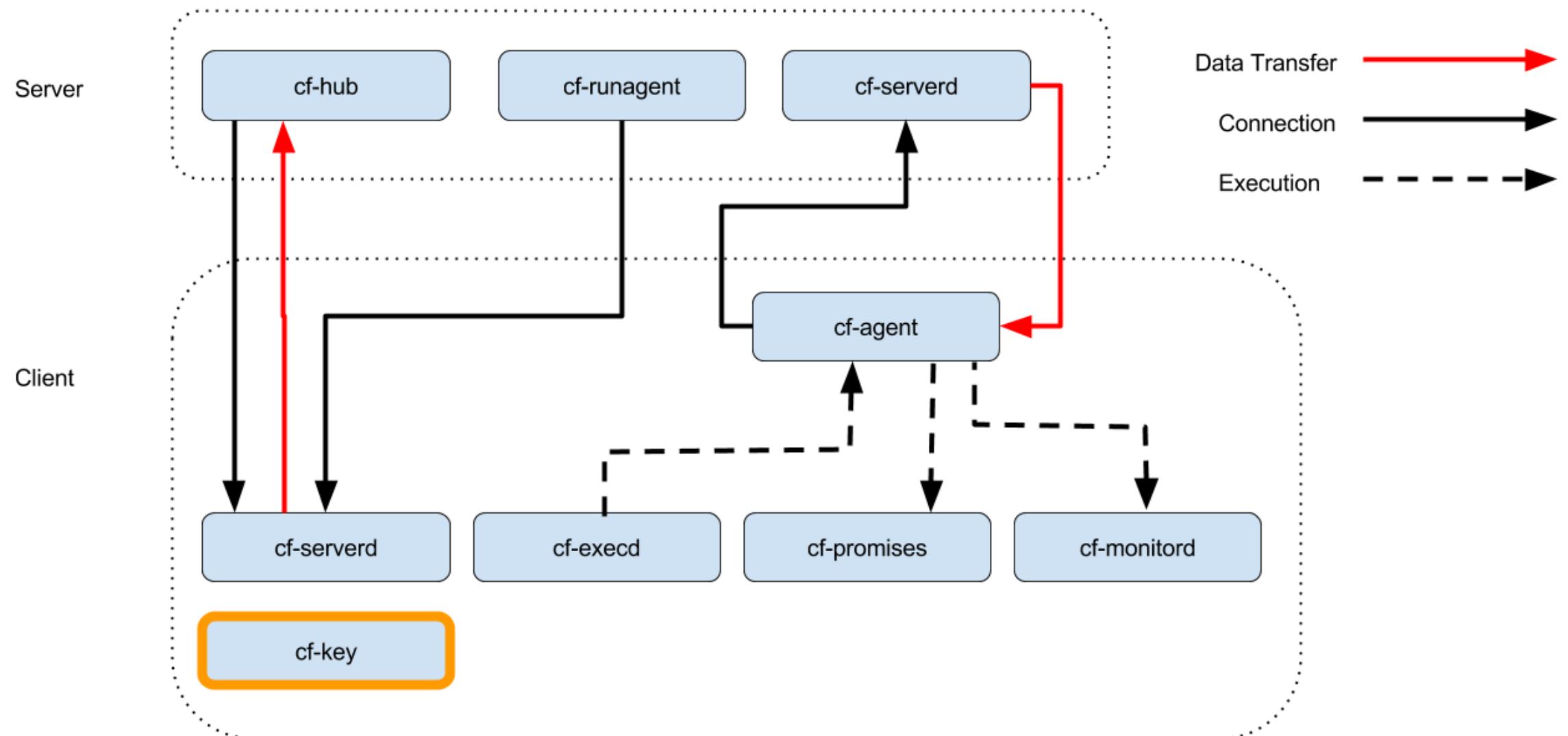
- Requests invocation of cf-agent on remote hosts
- Cannot invoke arbitrary commands
- Define classes to modify behavior (- - define)
- Specify bundlesequence (- - remote - bundles)

cf-serverd



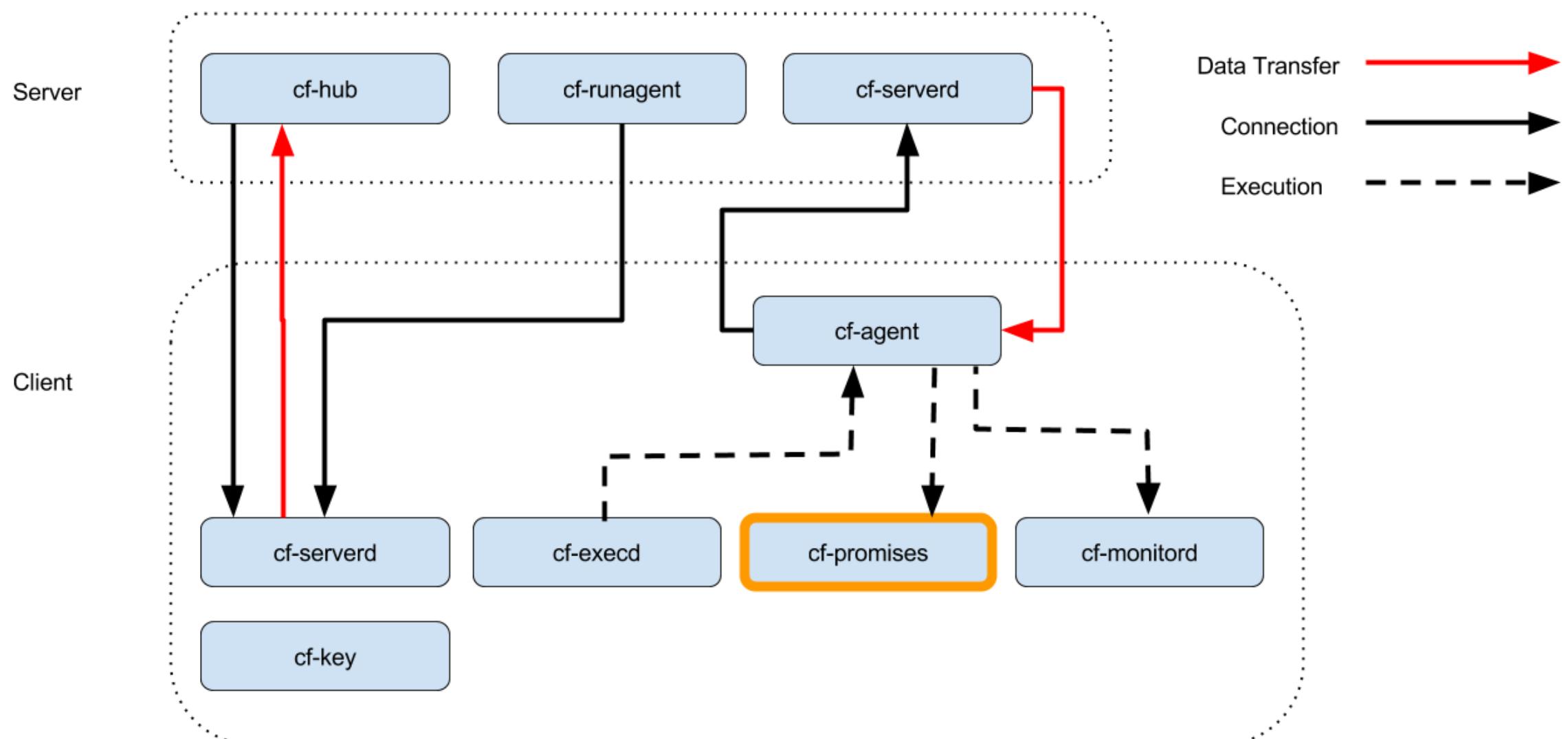
- Listens for connections on **TCP/5308**
- Enforces access control and authentication
- Serves files
- Serves cf-runagent requests
- Serves reports to cf-hub
- Runs on both server and clients
- Evaluates "common" and "server" bundles
- Obeys body "server control"

cf-key



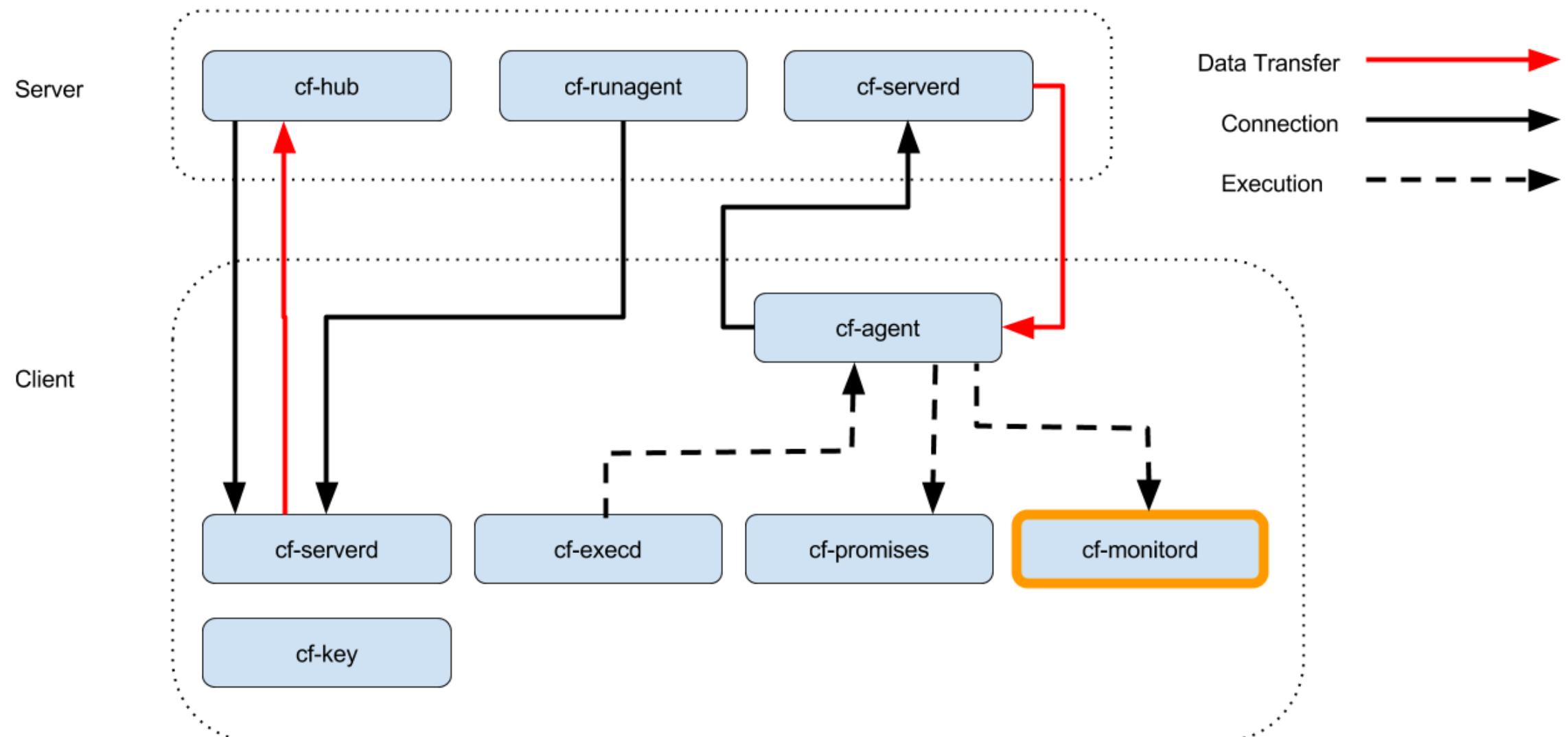
- Show recent connections
- Manage trust of public keys
- Generates key pairs
- Installs Enterprise License

cf-promises



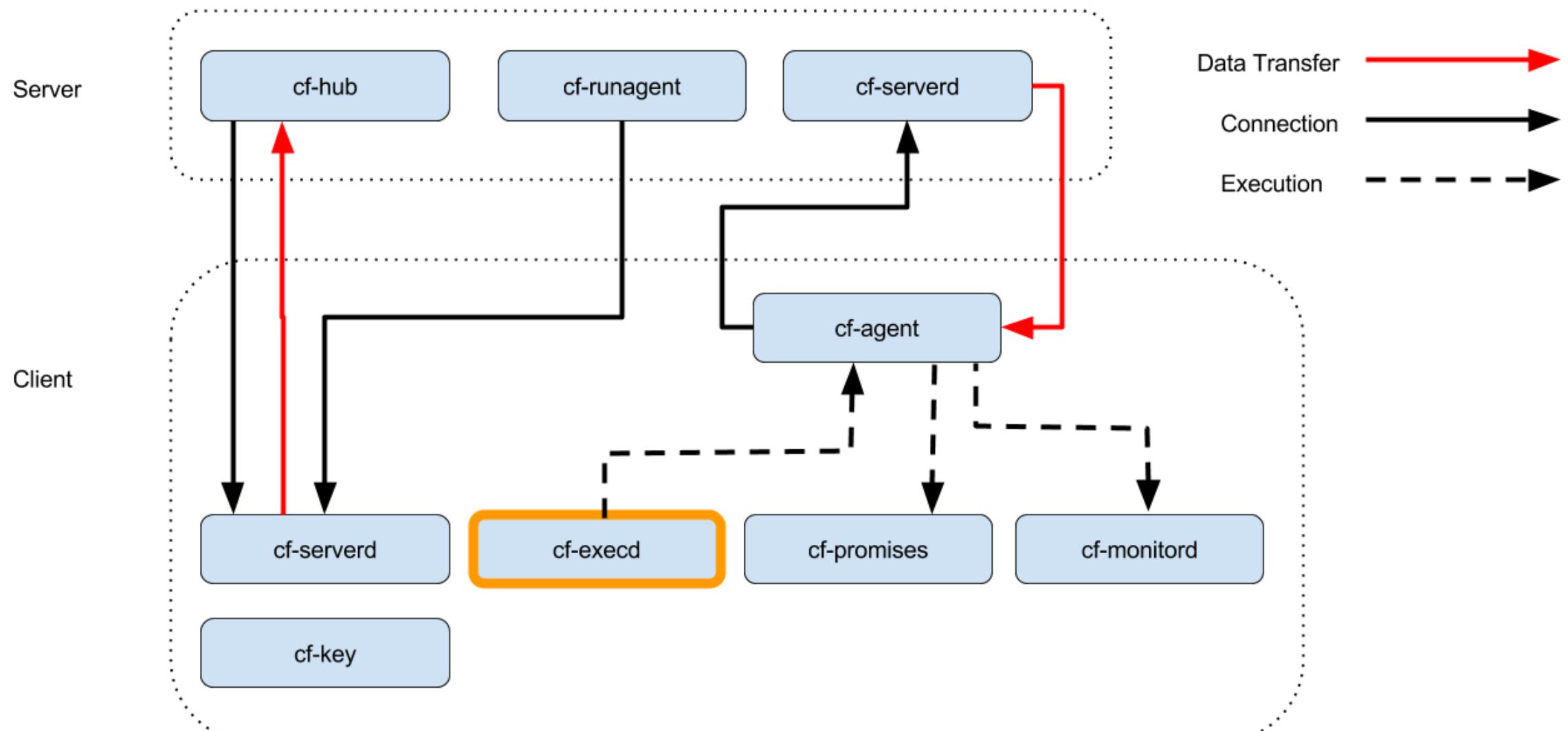
- Checks Syntax
- Dump Syntax (`cf-promises --syntax-description`)
- Tag Policy Releases (`cf-promises --tag-release`)
- Show first order Variables and Classes (`cf-promises --show-vars --show-classes`)

cf-monitord



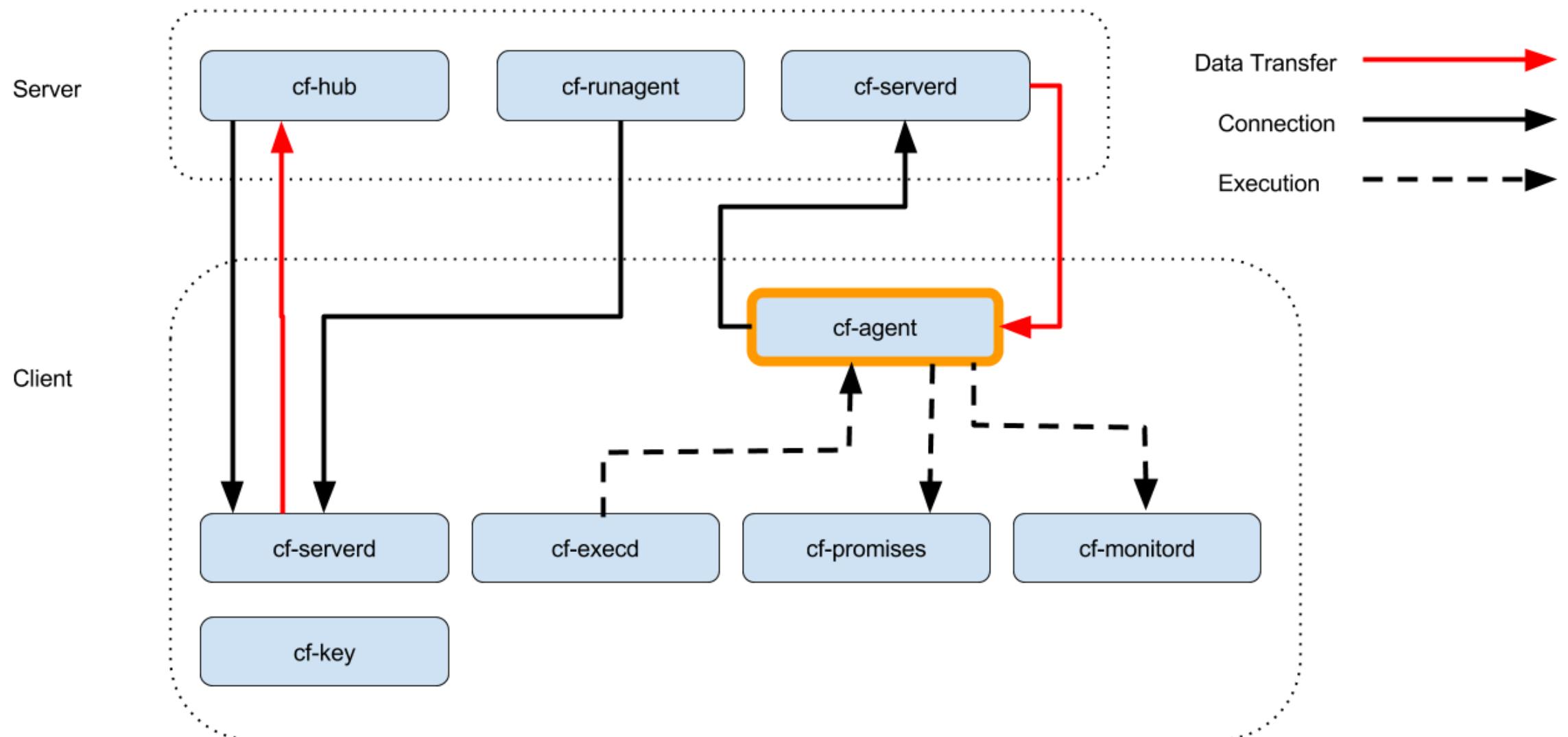
- Measures things
- Defines mon.* variables
- Defines classes based on anomaly detection
- Evaluates "common" and "monitor" bundles
- Obeys "common control" and "monitor control" bodies

cf-execd



- Executes cf-agent periodically
- Controls period and splay time
- Collects, stores, and sends output
- Evaluates "common" bundles
- Obeys "executor control" body

cf-agent



- The catalyst or instigator of change
- Evaluates "agent" and "common" bundles
- Obeys "common control" and "agent control" bodies.
- By default runs \$(sys.default_policy_path)
 - Privileged: /var/cfengine/inputs/promises.cf
 - Unprivileged: ~/.cfagent/inputs/promises.cf
- Actuates body common control bundle sequence if defined, or bundle __main__ or bundle main

cf-secret

- Encrypts and decrypts files using CFEngine keys

cf-check

- Inspect, validate, and repair embedded databases

cf-check:

Utility for diagnosis and repair of local CFEngine databases.
This BETA version of the tool is for testing purposes only.

Commands:

dump - Print the contents of a database file
diagnose - Assess the health of one or more database files
backup - Copy database files to a timestamped folder
repair - Diagnose, then backup and delete any corrupt databases
version - Print version information
help - Print this help menu

Usage:

```
$ cf-check <command> [options] [file ...]
```

Examples:

```
$ cf-check dump /var/cfengine/state(cf_lastseen.lmdb
$ cf-check lmdump -a /var/cfengine/state(cf_lastseen.lmdb
$ cf-check diagnose
$ cf-check repair
```

cf-net

- Command line utility for interacting with cf-serverd as a client

Usage: cf-net [OPTIONS] COMMAND

Options:

--help	, -h	- Print the help message
--manpage	, -M	- Print the man page
--host	, -H value	- Server hostnames or IPs, comma-separated (defaults to policy server)
--debug	, -d	- Enable debugging output
--verbose	, -v	- Enable verbose output
--log-level	, -g value	- Specify how detailed logs should be. Possible values: 'error', 'warning', 'info', 'debug'
--inform	, -I	- Enable basic information output
--tls-version	, -t value	- Minimum TLS version to use
--ciphers	, -c value	- TLS ciphers to use (comma-separated list)

Commands:

help	- Prints general help or per topic. Usage: cf-net help [command]
connect	- Checks if host(s) is available by connecting. Usage: cf-net -H 192.168.50.50,192.168.50.51 connect
stat	- Look at type of file. Usage: cf-net stat masterfiles/update.cf
get	- Get file from server. Usage: cf-net get masterfiles/update.cf -o download.cf [-jNTHREADS] (%d can be used in both the remote and output file paths when '-j' is used)
opendir	- List files and folders in a directory. Usage: cf-net opendir masterfiles

Website: <http://www.cfengine.com>

This software is Copyright (C) 2008, 2010-present Northern.tech AS.

cf-reactor

- CFEEngine event reaction daemon
- Enterprise Hub Specific
- Does not read policy

POP QUIZ

POP QUIZ

- What needs to happen before remote agents can get policy from the hub?

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 - Where is the policy that the agent runs by default?

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 - What port needs to be open bidirectionally?

POP QUIZ

- What needs to happen before remote agents can get policy from the hub?
 - Where is the policy that the agent runs by default?
 - What port needs to be open bidirectionally?
- How does information from client hosts get into the Enterprise Hub Database?

POP QUIZ

- What needs to happen before remote agents can get policy from the hub?
 - Where is the policy that the agent runs by default?
 - What port needs to be open bidirectionally?
- How does information from client hosts get into the Enterprise Hub Database?
- What is the answer to the ultimate question of life, the universe and everything?

MPF & STDLIB

The default "Masterfiles"

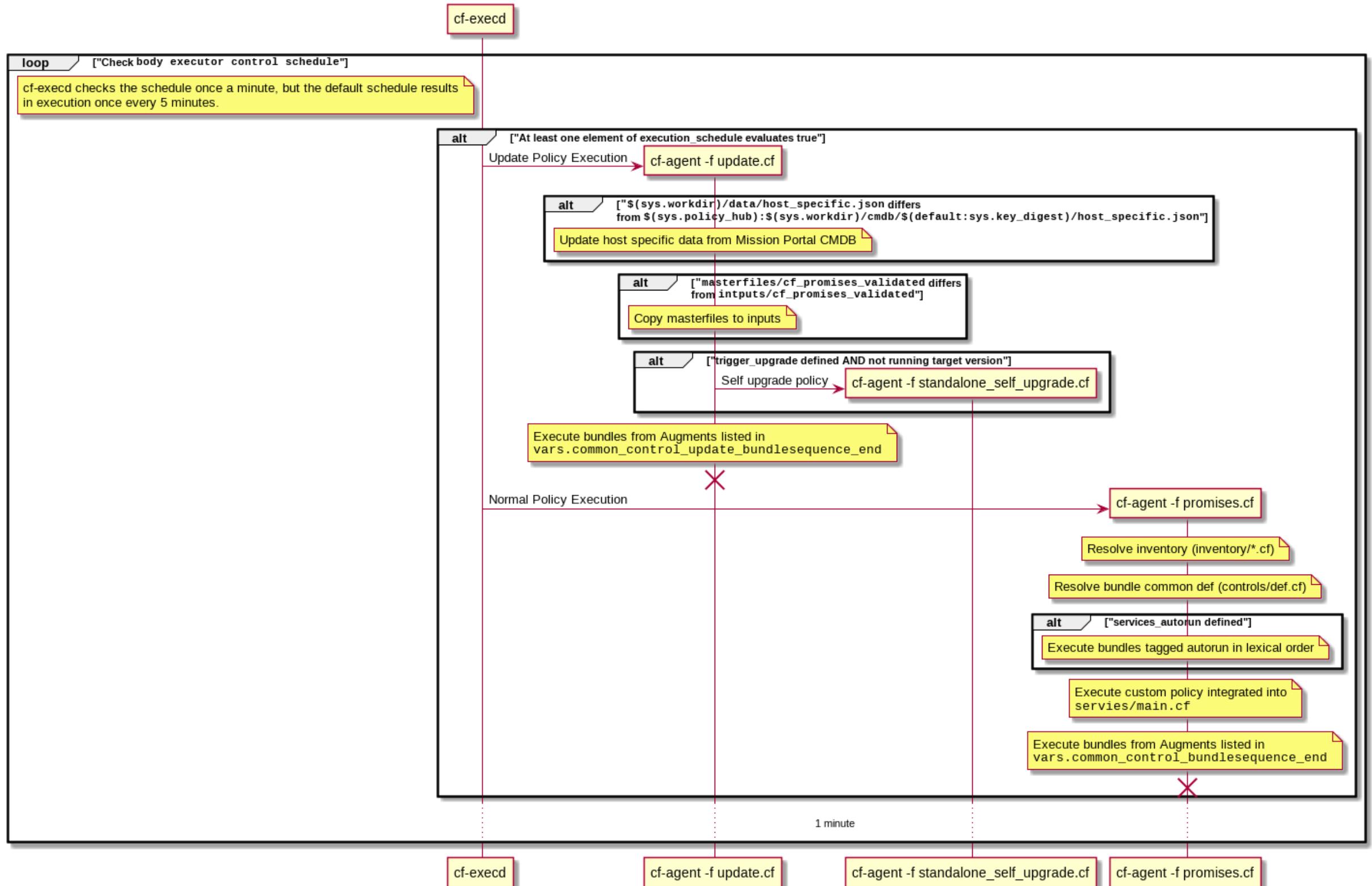
OVERVIEW

- promises.cf
- update.cf
- standalone_self_upgrade.cf
- lib/*
- cfe_internal/*
- controls/*
- inventory/*
- templates/*

USER ENTRIES

- \$(sys.workdir)/data/host_specific.json
(Augments)
- def.json **(Augments)**
- services/*.cf
- services/main.cf
- services/autorun/*.cf
- CUSTOM_DIRECTORY/*.cf

UNATTENDED POLICY EXECUTION OVERVIEW



POP QUIZ

POP QUIZ

- What is the *MPF*?

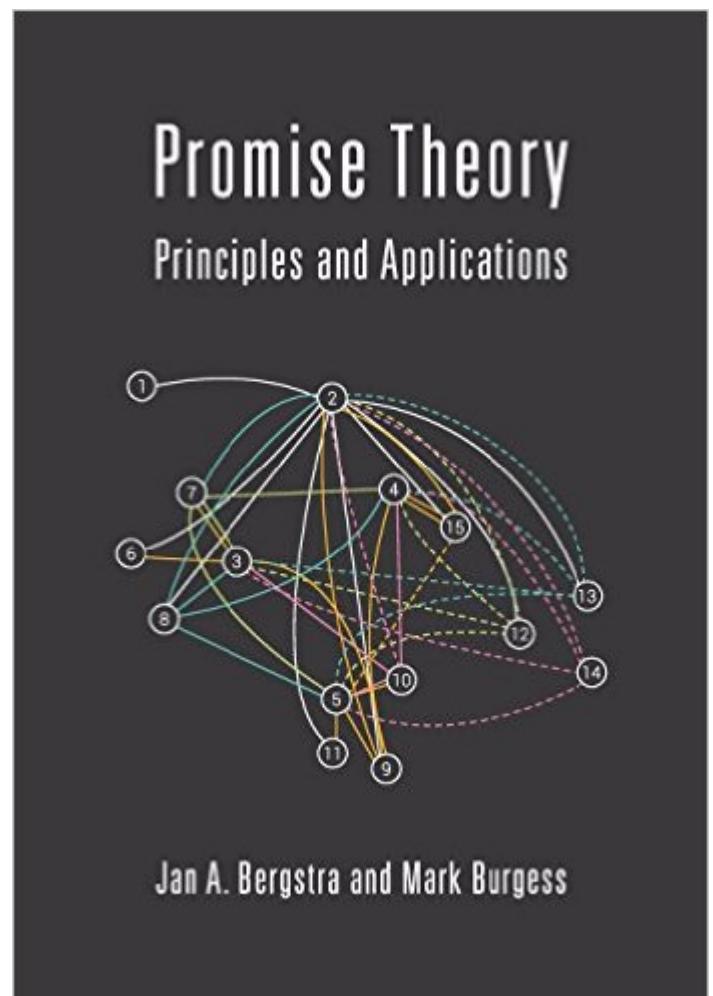
POP QUIZ

- What is the **MPF**?
- Where do you configure *most* MPF tunables?

POP QUIZ

- What is the **MPF**?
- Where do you configure *most* MPF tunables?
- At what point in the Upgrade Process should the MPF be upgraded?

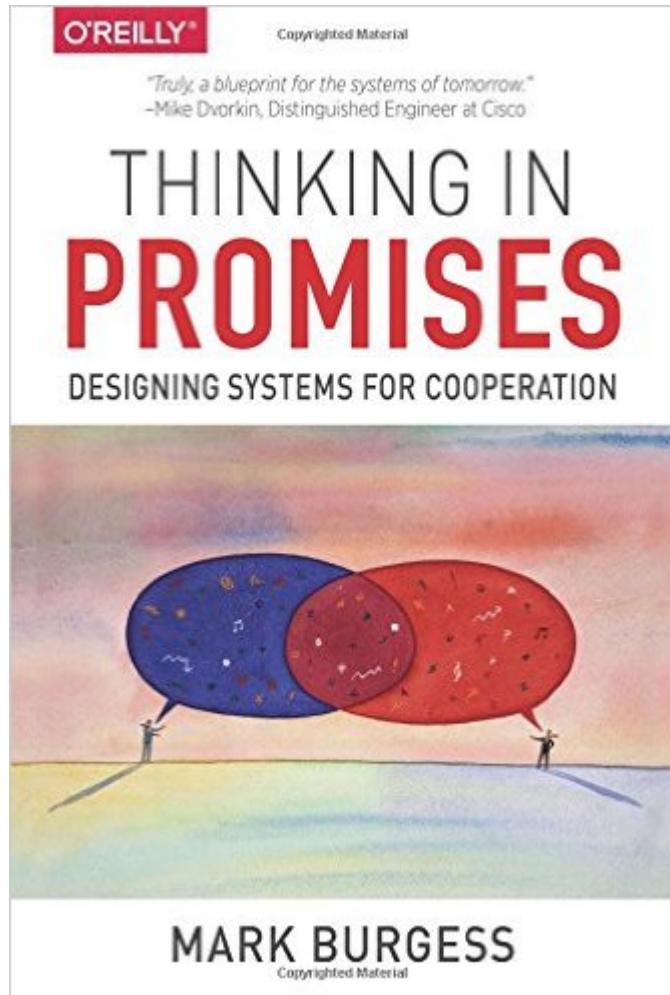
PROMISE THEORY



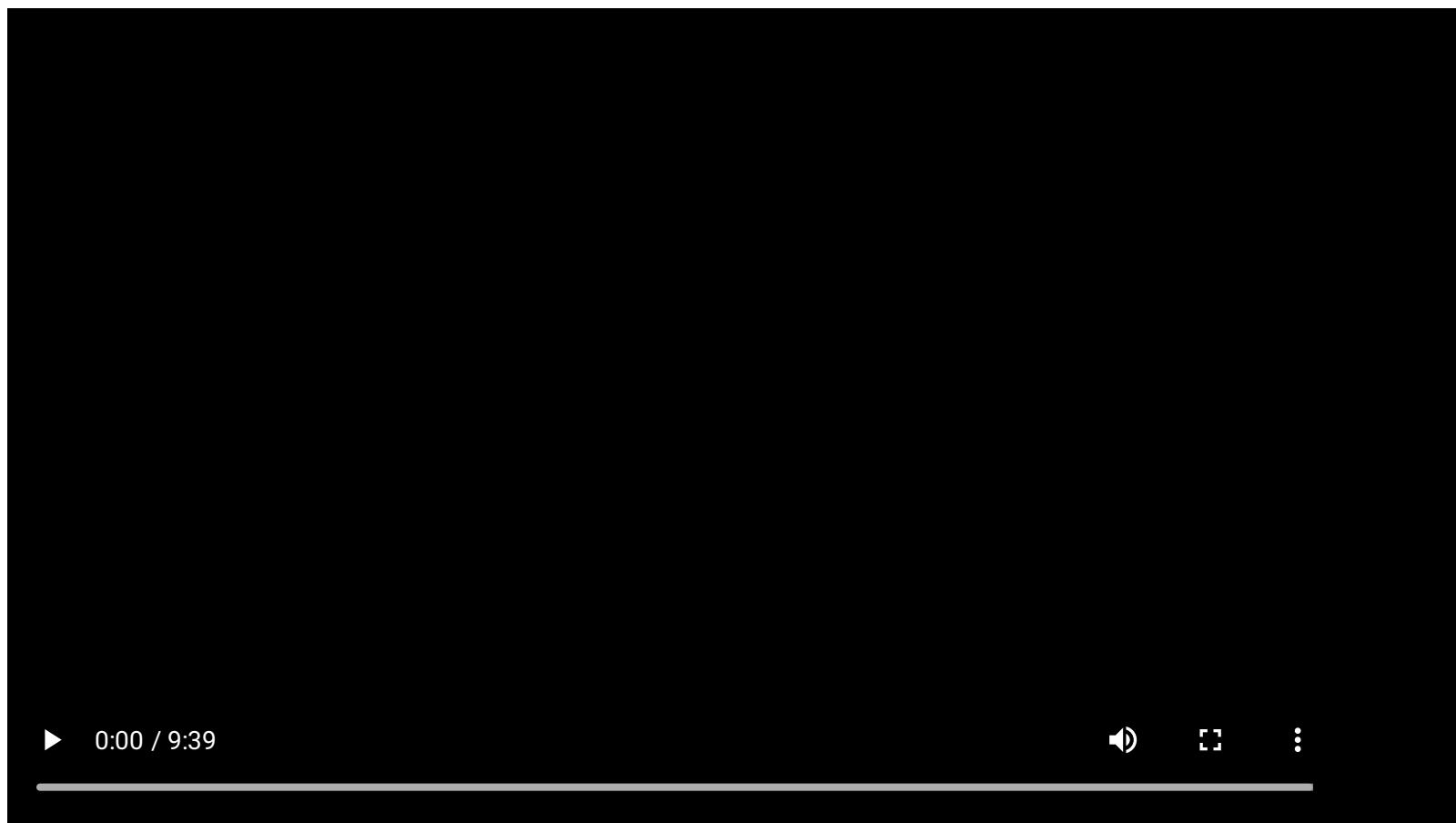
A model of
voluntary
cooperation
between individual
autonomous actors.

PROMISES

- A promise is a **statement of intent**
- Agents can only make promises about themselves



BASIC CONCEPTS



<https://www.youtube.com/watch?v=2TPsB5WuZgk>

LANGUAGE

PROMISE OUTCOMES/RESULTS

- kept
- repaired
- not_kept
 - failed
 - denied
 - timeout

Note: Compound promises **can** have **multiple outcomes** at the same time (*not_kept* & *kept* & *repaired*).

```
files:  
  "/mnt/volume/file.txt"  
    create => "true",  
    perms => m( 777 ),  
    edit_line => lines_present( "Hello World $(sys.date)" ),  
    edit_defaults => empty;
```

PROMISE TYPES

access, build_xpath, classes, **commands**, databases, defaults,
delete_attribute, delete_lines, delete_text, delete_tree, field_edits,
files, guest_environments, insert_lines, insert_text, insert_tree,
measurements, meta, methods, **packages**, processes,
replace_patterns, reports, roles, **services**, set_attribute, set_text,
storage, users, vars

CUSTOM PROMISE TYPES

- Available starting with 3.17.0
- Can be written in any language
- Bash and Python libraries available

SYNTAX STRUCTURE

```
bundle type name
{
    promise_type:
        context::

    "promiser" -> { "optional", "stakeholder" }
        handle => "unique.promise.identifier",
        depends_on => { "handles", "must_be_kept_or_repaired_first" },
        attribute_1 => value_1,
        attribute_2 => value_2,
        meta => { "tag1", "tag2", "tag3=something" },
        comment => "Why important";
}
```

BUNDLES

- Collection of logically related promises
- Are **not functions**
- Can take parameters
- Maintain some variable state
- Can return values

EXAMPLE BUNDLES HOLD *SOME* STATE

examples/example-bundles-maintain-some-variable-state.cf

```
bundle agent main
{
  methods:
    "" usebundle => set_item_in_bag( "hammer", "slightly damaged");
    "" usebundle => set_item_in_bag( "pickaxe", "perfect");
    "" usebundle => set_item_in_bag( "flask", "half full");
    "" usebundle => report_bag_contents;
  reports:
    "$(with)" with => join( ", ", getindices( "set_item_in_bag.array" ) );
}
```

```
bundle agent set_item_in_bag(item, condition)
{
  vars:
    "$(item)" string => "$(condition)";
    "array[$(item)]" string => "$(condition)";
}
bundle agent report_bag_contents
{
  vars:
    "l" slist => variablesmatching("default:set_item_in_bag\..*");
    "a[$(l)]" string => nth(string_split("$l", "\.", 2), 1);
  reports:"You look in the bag and see ...."; "A $($l) $(a[$l])";
}
```

```
exec 2>&1
cf-agent -Kf ./examples/example-bundles-maintain-some-variable-state.cf
:
```

```
R: You look in the bag and see ....
R: A slightly damaged hammer
R: A perfect pickaxe
R: A half full array[flask]
R: A half full flask
R: flask
```

BUNDLES FOR LOGICAL ABSTRACTION

For example, a bundle to configure Apache might:

- install the apache2 package
- edit the configuration file
- copy the web server content
- configure file-system permissions
- ensure the httpd process is running
- restart the httpd process when necessary

BUNDLE TYPES

```
cf-promises --syntax-description json | jq '.bundleTypes | keys[]'
```

agent

evaluated by cf-agent

common

evaluated by **all** components

edit_line

evaluated by cf-agent for files type promises

edit_xml

evaluated by cf-agent for files type promises

monitor

evaluated by cf-monitord

server

evaluated by cf-serverd

BUNDLESEQUENCE

- `main` is the default
- `__main__` is treated as *main* if in
`$(sys.policy_entry_filename)`
examples/bundle_main_.cf

```
bundle agent hello_world
{
  reports: "Hello from $(this.bundle)";
}
bundle agent __main__
{
  methods: "hello_world";
}
```

BODIES

- Collection of attributes
- Have a type (e.g. `classes`, `perms`, `copy_from`)
- Can take parameters
- Can be inherited (3.8+)
- Can be *defaulted* for a given promise *type* (3.9+)
- Can be *custom* (with a custom promise type) (3.20)

There are 41 built-in body types as of 3.21.0

```
cf-promises --syntax-description json | jq '.bodyTypes | keys |join(", ")'   
acl, action, agent, changes, classes, common, contain, copy_from,  
database_server, delete, delete_select, depth_search, edit_defaults,  
edit_field, environment_interface, environment_resources, executor,  
file, file_select, hub, insert_select, link_from, location, match_value,  
monitor, mount, package_method, package_module, password,  
perms, printfile, process_count, process_select, rename,  
replace_with, report_data_select, runagent, select_region, server,  
service_method, volume
```

SPECIAL BODIES THAT CONTROL AGENT BEHAVIOR

- body common control
- body file control
- body agent control
- body server control
- body executor control
- body hub control

DEFAULT BODIES

examples/default-bodies.cf

```
bundle agent main
{
  files:
    "/tmp/show_default_action"
      create => "true";

    "/tmp/show_explicit_action"
      create => "true",
      action => fix;
}

body action fix
{
  action_policy => "fix";
}
```

```
warning: Warning promised, need to create file '/tmp/show_default_action'  
info: Created file '/tmp/show_explicit_action', mode 0600
```

NORMAL ORDER

- The order in which CFEngine executes **promises**
 - classes and vars are evaluated during policy parsing and pre-eval (depending on the bundle type)
 - Promises are evaluated from top to bottom respecting class restrictions
 - Bundles listed in the bundlesequence or activated via methods are given 3 pass evaluation

EXAMPLE:

```
bundle agent illustrating_normal_order
{
  vars:
    "color1" string => "red";

  reports:
    "$(color1)+$(color2) = Purple";

  vars:
    "color2" string => "blue";
}
```

```
# cf-agent --bundlesequence illustrating_normal_order --no-lock --log-level info --file illus...
info: Using command line specified bundlesequence
R: red+blue = Purple
```

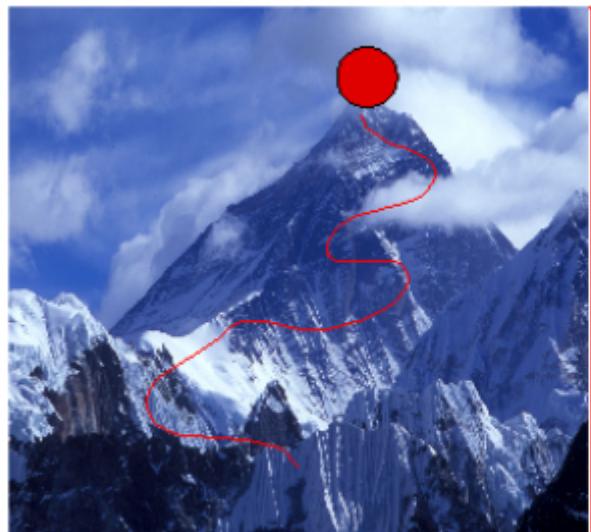
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  vars:
    "color1" string => "red";
    "color2" string => "blue";

  reports:
    "$(color1)+$(color2) = Purple";
}
```

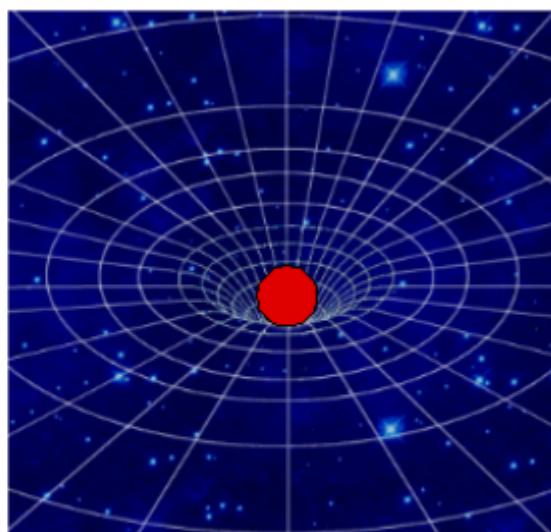
```
# cf-agent --bundlesequence illustrating_normal_order --no-lock --log-level info --file illus...
      info: Using command line specified bundlesequence
R: red+blue = Purple
```

CONVERGENCE

- A basic principal of CFEengine
- cf-agent will perform three passes over each bundle explicitly actuated



Baseline and recipe



Convergence to end state

AUGMENTS (`host_specific.json`, `def.json`)

- Very early definition
- `host_specific.json` processed first (if present), variables defined here have precedence over other augments
- `def.json` Loaded if found next to
`$(sys.policy_entry_filename)`
- Classes based on system discovery (platform/networks/arch)
- Facilitates delegation of control

EXAMPLE AUGMENTS

- Simple syntax
- examples/augments/def.json

```
{  
  "classes": {  
    "by_regular_expression": [ "ubuntu_\\d+" ],  
    "by_class_expression": [ "(Afternoon|Evening).(Monday|Wednesday|Friday)::" ],  
  },  
  "vars": {  
    "myvar1": "defined from augments",  
    "myvar2": "defined from augments"  
  }  
}
```

- Advanced syntax
 - classes
- examples/augments_2_classes/def.json

```
{  
  "classes": {  
    "by_regular_expression": {  
      "regular_expressions": [ "ubuntu_\\d+" ],  
      "comment": "My Comment",  
      "tags": [ "optional", "tags" ]  
    }  
    "by_class_expression": {  
      "class_expressions": [ "(Afternoon|Evening).(Monday|Wednesday|Friday)::" ],  
      "comment": "My Comment",  
      "tags": [ "optional", "tags" ]  
    }  
  },  
  "vars": {  
    "myvar2": "defined from augments"  
  }  
}
```

EXAMPLE POLICY USING AUGMENTS

examples/augments/augments.cf

```
bundle agent main
{
  reports:
    "I defined '$(const.dollar)(def.myvar1)' as '$(def.myvar1)'";
  by_regular_expression::
    "Define classes from augments based on a regular expression";
  by_class_expression::
    "Define classes from augments based on CFEngine class expressions";
}
```

EXAMPLE OUTPUT

```
cf-agent --no-lock --file ./examples/augments/augments.cf
```

```
R: I defined '$(def.myvar1)' as 'defined from augments'  
R: Define classes from augments based on a regular expression  
R: Define classes from augments based on CFEngine class expressions
```

POLICY ALWAYS WINS!

examples/augments/augments-policy-wins.cf

```
bundle common def
{
  vars:
    "myvar1" string => "Defined in policy";
    "myvar2"
      string => "Defined in policy",
      if => not( isvariable( myvar2 ) );
}
bundle agent main
{
  reports:
    "I defined '$(const.dollar)(def.myvar1)' as '$(def.myvar1)'";
    "I defined '$(const.dollar)(def.myvar2)' as '$(def.myvar2)';

  by regular expression:
```

EXAMPLE OUTPUT

```
cf-agent --no-lock --file ./examples/augments/augments-policy-wins.cf
```

```
R: I defined '$(def.myvar1)' as 'Defined in policy'  
R: I defined '$(def.myvar2)' as 'defined from augments'  
R: Define classes from augments based on a regular expression  
R: Define classes from augments based on CFEngine class expressions
```

MULTIPLE AUGMENTS

Merge more augments on top.

examples/augments-multiple/def.json

```
{  
  "vars": {  
    "myvar1": "defined from augments for all",  
    "myvar2": "defined from augments for all"  
  },  
  "augments": [ "$(sys.policy_entry dirname)/$(sys.os).json" ]  
}
```

examples/augments-multiple/linux.json

```
{  
  "vars": {  
    "myvar2": "override for linux hosts"  
  }  
}
```

MULTIPLE AUGMENTS: EXAMPLE POLICY

examples/augments-multiple/promises.cf

```
bundle agent main
{
  reports:
    "'$(const.dollar)(def.myvar1)' is '$(def.myvar1)''";
    "'$(const.dollar)(def.myvar2)' is '$(def.myvar2)''";
}
```

```
cf-agent --no-lock --file ./examples/augments-multiple/promises.cf
```

```
R: '$(def.myvar1)' is 'defined from augments for all'
R: '$(def.myvar2)' is 'override for linux hosts'
```

MACROS

- Conditional parsing based on version and features
- Use for supporting future syntax, speed optimizations

VERSION BASED

- `minimum_version`
- `maximum_version`
- `at_version`
- `between_versions`
- `before_version`
- `after_version`

examples/macros-if-minimum_version.cf

```
bundle agent example_macro_minimum_version
{
@if minimum_version(4.0.0)
    This contains completely invalid syntax, but it's OK.
    Only versions 4 and greater will evaluate this section.
@endif
@if minimum_version(3.14.0)
    # the function `classfiltercsv()` was introduced in 3.14.0
vars:
    "container"  data => classfiltercsv( $(file), # File
                                            true, # Has header
                                            0, # Class column
                                            2); # Optional sort column
@endif
}
```

FEATURE BASED

- Feature Macro documentation

You can conditionally parse policy based on compiled in features using this macro.

examples/macros-if-feature-yaml.cf

```
bundle agent main
{
@if feature(yaml)
# the yaml library may not be compiled in
  vars: "container" data => parseyaml(
- array1
- array2
- key: 1
- key: 2');
@endif

reports:
  "$(with)" with => string_mustache('{{%-top-}}', container );
}
```

ELSE

- Must come *after* an @if macro

```
bundle agent extractor
{
@if minimum_version(3.16)
  # Implementation for 3.16+
  vars:
    "container"
    data => classfiltercsv(...);

@else
  # Implementation for versions before 3.16
  vars:
    "container"
    data => readcsv(...);

@endif
}
```

FUNCTIONS

There are 181 functions as of 3.21.0

POP QUIZ

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- What is a bundle?

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- What is the fundamental underlying philosophy that CFEEngine is based on?

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 - When is the next break?

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 - What has the 2nd highest precedence when defining variables?

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 - What do augments facilitate?

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- How can you use new language features when you still have some old agents?
 - Which Augments files is loaded *first*?
 - Which language elements can be extended?
 - What has the highest precedence when defining variables?
- What has the 2nd highest precedence when defining variables?
 - What do augments facilitate?
 - How do augments facilitate delegation of control?

MAKING DECISIONS: CONTEXT CLASSES AND EXPRESSIONS

CLASSES

- Restrict promises based on context
- Usable in bundles and bodies
- Used for making decisions
- Can be combined with expressions

WHAT CLASSES ARE DEFINED?

Before 3 pass evaluation

```
cf-promises --show-classes
```

At the end of a policy run

```
cf-agent --show-evaluated-classes
```

Currently within a policy

```
vars:  
  "defined" slist => classesmatching( ".*" );
```

EXAMPLE

```
cf-promises --show-classes | tail -n+2 | awk -vORS=", " '{print $1}'
```

127_0_0_1, 172_17_0_1, 192_168_122_1, 192_168_42_189, 4_cpus,
64_bit, Afternoon, Day23, February, GMT_Day23, GMT_Evening,
GMT_February, GMT_Hr18, GMT_Hr18_Q3, GMT_Lcycle_1,
GMT_Min30_35, GMT_Min34, GMT_Q3, GMT_Sunday,
GMT_Yr2020, Hr12, Hr12_Q3, Lcycle_1, Min30_35, Min34,
PK_SHA_43c979e264924d0b4a2d3b568d71ab8c768ef63487670f2c
Q3, Sunday, Yr2020, any, cfengine, cfengine_3, cfengine_3_15,
cfengine_3_15_0, common, compiled_on_linux_gnu, debian,
debian_buster, enterprise, enterprise_3, enterprise_3_15,
enterprise_3_15_0, enterprise_edition,

fe80_5ee0_c5ff_fe9f_f38f, feature, feature_curl, feature_def,
feature_def_json, feature_def_json_parse, feature_tls,
feature_tls_1, feature_tls_1_0, feature_tls_1_1, feature_tls_1_2,
feature_tls_1_3, feature_xml, feature_yaml, ipv4_127, ipv4_127_0,
ipv4_127_0_0, ipv4_127_0_0_1, ipv4_172, ipv4_172_17, ipv4_172_17_0,
ipv4_172_17_0_1, ipv4_192, ipv4_192_168, ipv4_192_168_122,
ipv4_192_168_122_1, ipv4_192_168_42, ipv4_192_168_42_189,
ipv4_gw_192_168_42_1, ipv6_fe80_5ee0_c5ff_fe9f_f38f, linux,
linux_5_0_0_38_lowlatency, linux_x86_64,
linux_x86_64_5_0_0_38_lowlatency,
linux_x86_64_5_0_0_38_lowlatency_41_Ubuntu_SMP_PREEMPT_Tue

mac_02_42_fb_b7_c0_59, mac_52_54_00_6b_62_06,
mac_5c_e0_c5_9f_f3_8f, my_other_example, net_iface_docker0,
net_iface_lo, net_iface_virbr0, net_iface_wlan0,
nickanderson_thinkpad_w550s, nova, nova_3, nova_3_15,
nova_3_15_0, nova_edition, systemd,
test_class_29665402e2b4331f10b8d767b512cd916eeb5db9,
test_class_29665402e2b4331f10b8d767b512cd916eeb5db9_2,
ubuntu, ubuntu_19, ubuntu_19_04, x86_64,

CLASS EXPRESSIONS

Table 1: Class Expressions

.	(dot)	AND
&	(ampersand)	AND
	(pipe)	OR
!	(exclamation)	NOT
()	(parenthesis)	grouping

- It's more common to use `.` than `&` to express AND

EXAMPLE ILLUSTRATING CLASS EXPRESSIONS

examples/00-01-using_class_expressions.cf

```
bundle agent main
{
  files:
    linux.(Sunday|Saturday):: "/etc/nologin" -> { "Human Resources" }
      create => "true",
      comment => "Disallow non-root logins on the weekend.
                    We believe in work-life balance, and
                    encourage it.";

    linux.!(Sunday|Saturday):: "/etc/nologin" -> { "Business Operations" }
      delete => tidy,
      comment => "People need to be able to log in for them
                    to do their work during the week";
```

CLASS TYPES

- Hard Classes
- Soft Classes

HARD CLASSES

- Defined by agent
- Not configurable
- Always available
- Discovered each run
- Cannot be undefined

redhat, Thursday, linux

SOFT CLASSES

- Defined by policy
- Based on anything
- Available after definition
- Can persist for period of time
- Can be namespace or bundle scoped
- Can be undefined only as the result of a promise

VALID CLASS NAMES

- Allowed characters include [a-zA-Z0-9_]
- **Canonify** a string to produce a valid class name
 - Converts invalid characters to _.
- Automatically canonified **when defined**

Note: Classes are **NOT** automatically canonified when **checked**.

EXAMPLE OF AUTOMATIC CANONIFICATION

examples/00-01-classes_canonification.cf

```
bundle agent main
{
  vars:
    "my_class_name" string => "Invalid-Class/Name!";
    "c_my_class_name" string => canonify( "$(my_class_name)" );

  classes:
    "$(my_class_name)" expression => "any";

  reports:
    "'$(my_class_name)' is **NOT** a class that is defined"
    unless => "$(my_class_name)";

    "'$(c_my_class_name)' **IS** a defined class"
```

```
R: 'Invalid-Class/Name!' is **NOT** a class that is defined  
R: 'Invalid_Class_Name_' **IS** a defined class
```

CLASS SCOPE

Classes have one of two scopes:

Namespace

The class is visible from other bundles

Bundle

The class is only visible from within the bundle it was defined

Caveat methods promises that use `inherit => "true"`

NAMESPACE SCOPED CLASSES

- Aka *globally* scoped
- Accessible from any bundle
- Persist until end of agent run or explicitly undefined.
- Must be used if want reported to CFEngine Enterprise Hub
- All hard classes are namespace scoped

NON DEFAULT NAMESPACE

- Beware confusing namespace scope with specific namespace
- Referencing non-default namespace scoped classes
`class_in_current_NS|anotherNS:another_class::`

BUNDLE SCOPED CLASSES

- Accessible from within the bundle where they were defined

CLASS SCOPE RULES

Table 2: Default scope for
classes type promises

Bundle Type	Scope
common	namespace
agent	bundle

- classes bodies (define classes based on promise results default to **namespace scope**)

EXAMPLE CLASS SCOPES FOR CLASSES TYPE PROMISES

```
bundle agent bundle0
{
  classes:
    "I_will_be_bundle_scoped"
      expression => "any";
}
bundle common bundle1
{
  classes:
    "I_will_be_namespace_scoped"
      expression => "any";
}
```

PRO TIPS

- Use **bundle** scoped classes whenever possible.
- Define classes that describe the current state, not desired action.

EXAMPLE CLASS NAMES

```
bundle agent sshd_config
{
  services:
    "sshd"
      service_policy => "start";

  sshd_config_repaired.proposed_sshd_config_validated::
    "sshd"
      service_policy => "restart";
}
```

DEFINE CUSTOM CLASSES BY EXPRESSION

examples/00-10-classes_by_expression.cf

```
bundle agent main
{
  classes:
    "weekend" or => { "Saturday", "Sunday" };
    "weekday" not => "weekend";

    "business_hours"
      expression => "weekday.(Hr9|Hr10|Hr11|Hr13|Hr14|Hr15|Hr16|Hr17)",
      comment => "Weekdays from 9-5 excluding the lunch hour.;

    "webserver"
      expression => regcmp( "www.*", $(sys fqhost) ),
      comment => "Identify webservers based on their name";

    "north_america"
```

DEFINE CUSTOM CLASSES BY PROMISE OUTCOME

examples/00-10-

classes_define_based_on_promise_outcome.cf

```
bundle agent main
{
  vars:
    "config[PermitRootLogin]" string => "no";

  files:
    "/etc/ssh/sshd_config"
      edit_line => set_line_based("$(this.bundle).config", # Config MAP
                                    " ",           # Separator
                                    "\s+",         # Separator regex
                                    ".*",          # Keys to consider
                                    "\s*\#\s*"), # Lines to ignore
      classes => scoped_classes_generic("bundle", "sshd_config");

  services:
```

EXAMPLE - TRADITIONAL CLASS EXPRESSIONS

examples/00-10-classes_traditional_expression.cf

```
bundle agent main
{
  reports:
    "Hello World!";
    linux.!:(Saturday|Sunday):::
      "This is a linux host.";
      "Today is not Saturday or Sunday.";
}
```

```
R: Hello World!
R: This is a linux host.
R: Today is not Saturday or Sunday.
```

EXAMPLE - RESTRICT INDIVIDUAL PROMISES WITH IF AND UNLESS

examples/00-10-classes_example_if_and_unless.cf

```
bundle agent main
{
  vars:
    "platforms" slist => { "linux", "windows" };

  reports:
    "I am a $(platforms) host"
      if => "$(platforms)";
      # ifvarclass => "$(platforms)";

    "I was made by Microsoft"
      unless => "!windows";
}
```

R: I am a linux host

EXAMPLE - VARIABLE CLASS EXPRESSIONS

examples/00-10-
classes_example_variable_class_expressions.cf

```
bundle agent main
{
  vars:
    "platforms" slist => { "linux", "windows" };

  reports:
    !(Saturday|Sunday):: "It's a weekday and I am a $(platforms) host!"
      if => "$(platforms)";

    "$(platforms):: "I am a $(platforms) host and it's a weekday!"
      if => "!!(Saturday|Sunday)";
}
```

```
R: It's a weekday and I am a linux host!
R: I am a linux host and it's a weekday!
```

FUNCTIONS THAT RETURN "CONTEXT"

```
cf-promises --syntax-description json | jq '.functions | \  
with_entries( select(.value.returnType == "context") ) | \  
keys | join( ", " )'
```

accessedbefore, changedbefore, classify, classmatch, every,
fileexists, filesexist, groupexists, hashmatch, hostinnetgroup,
hostrange, iprange, isdir, isexecutable, isgreaterthan, isipinsubnet,
islessthan, islink, isnewerthan, isplain, isvariable, laterthan, ldaparray,
none, processexists, read_module_protocol, regarray, regcmp,
regextract, regldap, regline, reglist, remoteclassesmatching,
returnszero, some, splayclass, strcmp, usemodule, userexists

POP QUIZ

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- What is the difference?
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 - What are valid class characters?
- What is the default scope for classes defined as the result of a promise outcome using a classes body?

POP QUIZ

- What types of classes are there?
 - What are valid class characters?
- What is the default scope for classes defined as the result of a promise outcome using a classes body?
- What component serves policy files, which hosts can be a policy server?
- What is the difference?

POP QUIZ

- What types of classes are there?
- What is the difference?
- What are valid class characters?
- What is the default scope for classes defined as the result of a promise outcome using a classes body?
- What component serves policy files, which hosts can be a policy server?
- What special character can be used in class expressions that is not a logical operator?

POP QUIZ

- What types of classes are there? • What is the difference?
 - What are valid class characters?
- What is the default scope for classes defined as the result of a promise outcome using a classes body?
- What component serves policy files, which hosts can be a policy server?
- What special character can be used in class expressions that is not a logical operator?
 - Where is that special character used?

VARIABLES & DATA TYPES

VARIABLE SCOPING

- All variables are globally accessible
- `$(variable)`, `@(list` or data container`)`
- Use fully qualified variable names when accessing variables in other bundles.
 - `$(bundle.variable)`, `@(bundle.list)`
 - `$(namespace:bundle.variable)`,
`@(namespace:bundle.list)`

DATATYPES

- string, int, real
- slist, ilist, rlist
- classic "array"
- data

EXAMPLE - STRINGS

examples/00-01-strings.cf

```
bundle agent main
{
  vars:
    "string1" string => "one";
    "string2" string => "strings
can be multi-line";
    "string3" string => "with \"quotes\"";
    "string4" string => 'or "quotes"';
    "string5" string => `with 'single' and "double" quotes`;

  reports:
    "string1 = '$(string1)'";
    "string2 = '$(string2)'";
    "string3 = '$(string3)'";
    "string4 = '$(string4)'";
```

```
R: string1 = 'one'  
R: string2 = 'strings  
can be multi-line'  
R: string3 = 'with "quotes"'  
R: string4 = 'or "quotes"'  
R: string5 = 'with 'single' and "double" quotes'
```

EXAMPLE - NUMBERS

examples/00-02-numbers.cf

```
bundle agent main
{
  vars:
    "var1" int => "1";
    "var2" int => "10K";
    "var3" real => "1.2";
    "var4" real => "10e-5";
    "var5" int => "inf";

  reports:
    "var1 = '$(var1)'";
    "var2 = '$(var2)'";
    "var3 = '$(var3)'";
    "var4 = '$(var4)'";
    "inf = '$(var5)'".
```

```
R: var1 = '1'  
R: var2 = '10240'  
R: var3 = '1.200000'  
R: var4 = '0.000100'  
R: inf = '99999999'
```

```
bundle agent lets_talk_about_inf_baby
{
  vars:
    "inf_is" int => "inf";
    "biggest_int" int => "99999999999";
    # "biggest_int" int => "100000000000"; # error: Integer is out of range

  reports:
    "inf ($inf_is) < biggest_int ($biggest_int))"
      if => isgreaterthan( $biggest_int, $inf_is );

    "biggest_int ($biggest_int) is $(with) greater than inf ($inf_is))"
      with => format( "%0.0f", eval( "$biggest_int-$inf_is", math, infix));
}
bundle agent main
```

```
R: inf (99999999) < biggest_int (9999999999)
```

```
R: biggest_int (9999999999) is 99000000000 greater than inf (99999999)
```

EXAMPLE - LISTS

examples/00-04-lists.cf

```
bundle agent main
{
  vars:
    "var1" ilist => { 1, 2, "3", "4" };
    "var2" rlist => { "1.2", "2.0", "3.3" };
    "var3" slist => { "one", "two", three,
                        @(var1), @(var2),
                      };
    "var4" real => sum( var2 );

  reports:
    "var1 = '$(var1)'";
    "var2 = '$(var2)'";
    "var3 = '$(var3)'";
    "var4 = '$(var4)'".
```

```
R: var1 = '1'  
R: var1 = '2'  
R: var1 = '3'  
R: var1 = '4'  
R: var2 = '1.2'  
R: var2 = '2.0'  
R: var2 = '3.3'  
R: var3 = 'one'  
R: var3 = 'two'  
R: var3 = 'three'  
R: var3 = '1'  
R: var3 = '2'  
R: var3 = '3'  
R: var3 = '4'  
R: var3 = '1.2'  
R: var3 = '2.0'  
R: var3 = '3.3'  
R: var4 = '6.500000'
```

EXAMPLE - LIST ITERATION (LOOPS)

examples/00-03-list_iteration.cf

```
bundle agent main
{
  vars:
    "numbers" slist => { "1", "2", "3" };
    "colors" slist => { "red", "green", "blue" };

  reports:
    "$(numbers)";
    "$(colors)";
    "$(numbers) with $(colors)";
    "$(colors) with $(numbers)";
}
```

R: 1
R: 2
R: 3
R: red
R: green
R: blue
R: 1 with red
R: 1 with green
R: 1 with blue
R: 2 with red
R: 2 with green
R: 2 with blue
R: 3 with red
R: 3 with green
R: 3 with blue
R: red with 1
R: red with 2
R: red with 3
R: green with 1
R: green with 2
R: green with 3
R: blue with 1
R: blue with 2
R: blue with 3

EXAMPLE - "CLASSIC" ARRAYS

examples/00-05-classic_arrays.cf

```
bundle agent main
{
  vars:
    "file[motd]"  string => "/etc/motd";
    "file[fstab]" string => "/etc/fstab";

    "file_idx" slist => getindices( file );
    "files" slist => getvalues( file );

  reports:
    "The key '$(file_idx)' has the value '$(file[$(file_idx)])'";
    "file: '$(files)'";
}
```

```
R: The key 'motd' has the value '/etc/motd'  
R: The key 'fstab' has the value '/etc/fstab'  
R: file: '/etc/motd'  
R: file: '/etc/fstab'
```

EXAMPLE - DATA CONTAINERS

examples/00-06-data_containers.cf

```
bundle agent main
{
  vars:
    "server" string => "mirror.int.cfengine.com";
    "repos"
      data => '{
        "rhel6_updates": {
          "id": { "value": "RHEL6_UPDATES" },
          "name": { "value": "RHEL 6.x Updates" },
          "baseurl": { "value": "https://$(server)/RHEL6/updates" }
        }
      }';
    "idx" slist => getindices( repos );
}
```

```
R: URL = 'https://mirror.int.cfengine.com/RHEL6/updates'
```

ASSOCIATIVE ARRAYS VS DATA CONTAINERS

- Data containers defined as a single variable
- Associative Arrays aka Classic arrays
 - collection of individual variables
 - cleared at the start of each bundle evaluation

EXAMPLE ASSOCIATIVE ARRAYS VS DATA CONTAINERS

examples/00-04-classicarray-vs-datacontainer.cf

```
bundle agent main
{
  vars:
    "ClassicArray[key]" string => "value";
    "ClassicArray[deep]" slist => { "list" };
    "ClassicArray[nevermind]"
      string => "value",
      if => "notdefined";
    "DataContainer"
      data => '{ "key": "value", "deep": [ "list" ] }';

  reports:
    "ClassicArray:$(with)"
      with => storejson( ClassicArray );
    "DataContainer:$(with)"
```

EXAMPLE ASSOCIATIVE ARRAYS VS DATA CONTAINERS OUTPUT

```
R: ClassicArray:{  
  "deep": [  
    "list"  
,  
  "key": "value"  
}  
R: DataContainer:{  
  "deep": [  
    "list"  
,  
  "key": "value"  
}
```

POP QUIZ

POP QUIZ

- Which component makes changes to your system?

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- Which component makes changes to your system?
 - Which component schedules agent runs?

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POP QUIZ

- Which component makes changes to your system?
 - Which component schedules agent runs?
- What symbol terminates a promise? • What is your quest?
 - What are promise comments used for?
 - What types of variables are available?
 - How are decisions made?

POLICY EXAMPLES

CREATE A FILE

[examples/00-20-example-create_file.cf](#)

```
bundle agent nologin
{
  meta:
    "tags" slist => { "autorun" };
  files:
    "/tmp/nologin"
      create => "true",
      classes => results("bundle", "my_file");

  reports:
    my_file_repaired::
      "File repaired";

  any::
```

```
R: File repaired
R: File Exists
```

UPDATE FILE

examples/00-20-example-update file.cf

```
bundle agent heartbeat
{
  files:
    "$(sys.statedir)/$(this.bundle)" -> { "Monitoring" }
      create  => "true",
      touch   => "true",
      classes => results("bundle", "heartbeat"),
      handle   => "cf_agent_heartbeat_thump",
      comment  => "This policy simply updates the timestamp
                    of the file so an external monitoring
                    system can validate the system is working.';

  reports:
    DEBUG|DEBUG_cf_agent_heartbeat::
```

R: DEBUG main: Heartbeat

MAKE SURE A PACKAGE IS INSTALLED AND SERVICE RUNNING

examples/00-20-example-package_and_service.cf

```
bundle agent example_package_and_service
{
  meta:
    !policy_server::
      "tags" slist => { "autorun" };

  vars:
    centos|redhat::
      "_package" string => "httpd";
      "_service" string => "httpd";

    ubuntu|debian::
      "_package" string => "apache2";
      "_service" string => "apache2";
```

COMPETING IMPLEMENTATIONS OF PACKAGES PROMISES

- *methods* (legacy) vs *modules* (modern)

```
packages:  
  "apache2"  
    package_policy => "add",  
    comment => "I use the method based implementation";  
  
  "apache2"  
    policy => "present",  
    comment => "I use the module based implementation";
```

CLASSIFY ROLE BASED ON HOSTNAME

examples/00-20-example-classes-role_by_hostname.cf

```
bundle common classes_role_by_hostname
{
  classes:
    "env_prod"
      meta => { "inventory", "attribute_name=Role Classes" },
      or => {
        regcmp( "hub", $(sys.uqhost) ),
        regcmp( "^prd.*", $(sys.uqhost) ),
      };

    "webserver"
      expression => "host001",
      meta => { "inventory", "attribute_name=Role Classes" };

    "webserver"
```

CLASSIFY GEOGRAPHIC LOCATION BY NETWORK

[examples/00-20-example-classes-geographic_location_by_network](#)

```
bundle common classify_geo_location_by_network
{
  meta:
    "tags" slist => { "autorun" };

  vars:
    "nadc01_subnets"
      slist => { "172.16.25.0/25", "172.17.0.0/16",
                  "192.168.33.2/32",
                };

    "nadc02_subnets"
      slist => { "172.17.5.0/25", "172.42.0.0/16",
                  "192.168.33.3/32",
                };
}
```

Continued examples/00-20-example-classes-geographic_location_by_network.cf

```
classes:  
  "north_america"  
    or => { "nadc01", "nadc02" };  
  
  "south_america"  
    expression => classmatch("^sadc\d+");  
  
  "nadc01"  
    expression => iprange( $(nadc01_subnets) );  
  
  "nadc02"  
    expression => iprange( $(nadc02_subnets) );  
  
  "sadc01"
```

MANAGE KEY VALUE ENTRIES IN A CONFIG FILE

[examples/00-20-example-key_value_config.cf](#)

```
bundle agent manage_ssh
{
  meta:
    "tags" slist => { "autorun" };

  methods:
    "SSH Config Data"
      usebundle => ssh_config;

    "Manage SSH Config"
      usebundle => ssh_config_manage_kv("ssh_config.data");
}
```

```
bundle agent ssh_config
{
  vars:
    "data[PermitRootLogin]" string => "no";
    "data[Protocol]" string => "2";
    "data[Port]" string => "22";

    DEBUG|DEBUG_ssh_config:::
      "keys" slist => getindices(data);

  reports:
    DEBUG|DEBUG_ssh_config:::
      "DEBUG $(this.bundle): $(keys) = '$(data[$(keys)])'";
}
```

```
bundle agent ssh_config_manage_kv(data)
{
  vars:
    "config" string => "/etc/ssh/sshd_config";

  files:
    "$(config)"
      handle => "ssh_config_manage_kv_entries",
      edit_line => set_line_based("$(data)", " ", "\s+", ".*", "\s*\#\s*"),
      classes => scoped_classes_generic("bundle", "sshd_config");

  classes:
    sshd_config_repaired::
      "config_valid"
        expression => returnszero("/usr/sbin/sshd -t -f $(config)", noshell).
```

```
[root@hub masterfiles]# cf-agent -KID DEBUG_ssh_config,DEBUG_ssh_config_manage_kv
  info: Installing cfe_internal_non_existing_package...
R: DEBUG ssh_config: PermitRootLogin = 'no'
R: DEBUG ssh_config: Protocol = '2'
R: DEBUG ssh_config: Port = '22'
  info: Edit file '/etc/ssh/sshd_config'
R: DEBUG ssh_config_manage_kv: Reparied configuration
  info: Executing 'no timeout' ... '/sbin/service sshd restart'
  notice: Q: "...in/service sshd": Stopping sshd: [ OK ]
Q: "...in/service sshd": Starting sshd: [ OK ]
  info: Last 2 quoted lines were generated by promiser '/sbin/service sshd restart'
  info: Completed execution of '/sbin/service sshd restart'
R: DEBUG ssh_config_manage_kv: Configuration Valid
R: DEBUG ssh_config_manage_kv: Restarted sshd after config change
```

TEMPLATING A FILE WITH MUSTACHE

examples/00-20-example-
mustache template inline using datastate.cf

```
bundle agent motd
{
  meta:
    "tags" slist => { "autorun" };

  vars:
    "owner" string => "Bruce Wayne";

  files:
    "/etc/motd"
      template_method => "inline_mustache",
      edit_template_string => 'Welcome to {{{vars.sys fqhost}}}!

For support issues please contact {{{vars.motd.owner}}}.';
}
```

MUSTACHE EXTENSIONS

- - top - data handed to the templating engine
- @ Currently iterated key
- % Multi-line JSON representation of data
- \$ Serialized JSON representation of data

[examples/02-01-mustache-extensions.cf](#)

```
bundle agent example_mustache_extensions
{
  vars: "d" data => '{ "key": "value", "list": ["one", "two"] }';
  reports:
    "Multiline: $(with)" with => string_mustache( "{{%-top-}}", d);
    "Serial: $(with)" with => string_mustache( "{{$-top-}}", d);
    "Keys: $(with)" with => string_mustache( "{{#-top-}}{{{@}}}, {{/top}}", d);
}
bundle agent __main__{methods:"example_mustache_extensions";}
```

```
R: Multiline: {  
  "key": "value",  
  "list": [  
    "one",  
    "two"  
  ]  
}  
R: Serial: {"key":"value", "list":["one", "two"]}  
R: Keys: key, list,
```

examples/02-01-mustache-extensions-yaml.cf

```
bundle agent example_mustache_extensions_yaml
{
  vars: "d" data => '---'
key: value
list:
  - one
  - two';
reports:
  "Multiline: $(with)" with => string_mustache( "{{%-top-}}", d);
  "Serial: $(with)" with => string_mustache( "{$-top-}", d);
  "Keys: $(with)" with => string_mustache( "{{#-top-}}{{{@}}}, {{/top}}", d);
}
bundle agent __main__{methods:"example_mustache_extensions_yaml";}
```

```
R: Multiline: {  
  "key": "value",  
  "list": [  
    "one",  
    "two"  
  ]  
}  
R: Serial: {"key":"value", "list":["one", "two"]}  
R: Keys: key, list,
```

INVENTORY SSH HOST KEYS

examples/inventory-ssh-host-keys.cf

```
bundle agent example_inventory_ssh_host_keys
{
  vars:
    "keys" slist => lsdir("/etc/ssh", "ssh_host_\w+_key", "false");
    "$(keys)"
      data => data_regextract("ssh_host_(?<type>\w+)_key", $(keys) );
    "type[$(keys)]"
      string => "$(keys)[type]",
      meta => { "inventory", "attribute_name=SSH HostKey Type" };
    # Warning ssh-keygen output may vary across versions
    "fingerprint[$(keys)]"
      string => nth(
        string_split(
```

```
R: /etc/ssh/ssh_host_ed25519_key.pub
  type: ed25519
  fingerprint: SHA256:NA04HcvSPZ/wAp/vJUIc0V799ImTwnbFEX0R9R2SXUI
R: /etc/ssh/ssh_host_ecdsa_key.pub
  type: ecdsa
  fingerprint: SHA256:gN37F6qt7vkYvVzxg0ii5hNzu7EPJw/yTvEnRtr+rLk
R: /etc/ssh/ssh_host_dsa_key.pub
  type: dsa
  fingerprint: SHA256:/5b5NncWQL43gi9AQarZvVoQW5M+LJxk8KqFYGvZpqI
R: /etc/ssh/ssh_host_rsa_key.pub
  type: rsa
  fingerprint: SHA256:tSRcjukPF6w/jcyhqYG7tH1VkcruZGh0RmwFEEpMPzc
```

INTERACTING WITH APIs FROM WITHIN CFENGINE POLICY

examples/example-url_get-wtfismyip-v0.cf

```
bundle agent example_url_get_wtfismyip_v0
{
  vars:
    # This is the URL that we will query.
    "url" string => "https://wtfismyip.com/json";

    # We don't need to supply any specific options in this case.
    # url.max_content is a typical setting to change. 4K isn't enough for
    # some, (many?) API responses.
    "options" data => '{}';

    # Here we make our http(s) call, storing the response in `d`
    "d" data => url_get( $(url), @(options));

    # The response content is returned as a *string* inside the `content`. In
    # fact, it's a JSON object, but we'll just print the entire string.
    "content" string => d;
}
```

```
# cf-agent --no-lock --log-level info --file examples/example-url_get-wtfismyip-v0.cf
R: {
    "content": "{\n        \"Your Fucking IP Address\": \"24.143.34.87\", \n        \"Your Fucking Location\": \"Tonganoxie, KS, United States\", \n        \"Your Fucking ISP\": \"Midco\", \n        \"Your Fucking Hostname\": \"24-143-34-87-dynamic.midco.net\", \n        \"Your Fucking Country Code\": \"US\", \n        \"Your Fucking Tor Exit\": false\n    }\n}\n"}\n
```

POLICY EXERCISES

EDIT A FILE

Write a policy that populates /etc/issue with legaleze.

CREATE LOCAL USERS

Write a policy that creates at least 2 users.

INVENTORY THE LOCAL USERS

Tag the variable(s) that contain the usernames you promised for *inventory*.

```
meta => { "inventory", "attribute_name=My users" }
```

CREATE A FILE

Write a policy that ensures /etc/cron.allow is populated with one of the previously created users allowed to have cron jobs.

Switch to a user and try to crontab -e.

INVENTORY USERS IN /ETC/CRON.ALLOW

Inventory the users listed in /etc/cron.allow

ENABLE SSHD BANNER

Write a policy that enables the ssh banner and directs it to /etc/issue. sshd should be restarted after changing its configuration.

INSTALL NTPD AND CONFIGURE DRIFTFILE

- Install ntp
- Ensure service is running
- Configure path to driftfile /var/lib/ntp/drift?
- Make sure service is restarted if configuration file content is altered

REPORT

Write a policy that defines a name in separate parts (at least 3). Then have CFEngine report the name in a random order.

EXAMPLE SOLUTION

examples/example-report-randomized-strings-v0.cf

```
bundle agent example_report_randomized_strings_v0
{
  vars:
    "name_parts" slist => { "Ronald", "Mck", "Donald" };
    "shuffled" slist => shuffle( name_parts, randomint(0, inf) );
    "name" string => join(" ", shuffled);

  reports:
    "$(name)";
}
bundle agent __main__{methods:"example_report_randomized_strings_v0";}
```

```
R: Ronald Donald Mck
R: Mck Ronald Donald
R: Donald Ronald Mck
```

TRIGGER AN ACTION WHEN A FILE CHANGES

Write policy to monitor a file for change. When a change is seen report Winner Winner Chicken Dinner. Manually edit the file, show how cfengine detects and reports on the change.

AUTOMATICALLY ABORT BASED ON FILE PRESENCE

Write a policy that will abort cfengine execution if the file `$(sys.statedir)/abort_agent_execution` exists.

- See [abortclasses](#) in the cfengine documentation

DELETE FILE BASED ON AGE

Write a policy that will delete
\$(sys.statedir)/abort_agent_execution if it is older than 1
hour.

KILL A PROCESS

Write a policy to kill irssi running on web servers. No need for our web servers to be connected to IRC.

```
cp /bin/sleep /tmp/irssi  
/tmp/irssi 5000
```

BUILDING ON EXAMPLE-URL_GET-WTFISMYIP-V0.CF

- Let's use the response *content* from the previous example in a template to manage a file.

[examples/example-url_get-wtfismyip-v1.cf](#)

- Now, let's extend it further.
- After updating the file, let's do something, like run a command or restart a service.
- **hint**, define a class as the result of the promise

[examples/example-url_get-wtfismyip-v2.cf](#)

- Was your subsequent promise actuated?

- Find the classes that were defined

Modify the promised file so that we have something to repair

```
echo HELLO WORLD > /tmp/file.txt  
cat /tmp/file.txt
```

- File updated?
- Classes expected defined?

- Separate the files promise into discrete parts
- Again, mess with the file so that it will be repaired

- Adjust `url.max_content_size` in options for `url_get()`

INVENTORY BATTERIES

- `/sys/class/power_supply/BAT*/capacity`
 - What batteries are present
 - What are their capacities
 - More than 1? Aggregate capacity
 - Broken batteries?

STRIP SUFFIXES FROM A LIST OF FILENAMES

Given a list of filenames strip the suffix and get the prefix into a new list.

E.g. given a list containing 1.txt, 2.txt, 3.txt produce a list containing 1, 2, 3.

MANAGE FILES DESCRIBED BY A DATA CONTAINER

```
[  
  {  
    "name": "/tmp/create-multiple-files-with.content-1.txt",  
    "content": "Hello CFEngine!"  
  },  
  {  
    "name": "/tmp/create-multiple-files-with.content-2.txt",  
    "content": "Bye CFEngine!"  
  }  
]
```

ENTERPRISE REPORTING

APIS

- Host
- Inventory
- File Changes
- Health
- Query
- Settings
 - Federated Reporting
 - Import & Export
 - LDAP
 - Users
 - Version Control
 - RBAC

HOST API

```
curl -s -k --user $AUTHUSER:$PASSWORD \
https://$HUB/api/host\?count\=2\&context\_include\=cfengine_3_15_0
```

```
{  
  "data": [  
    {  
      "firstseen": "1578745699",  
      "hostname": "host001.example.com",  
      "id": "SHA=e01f65d069b9035c280ea0bdba6cf6e47863ac074a170addbad26e98cc89925c",  
      "ip": "192.0.2.1",  
      "lastreport": "1582643957"  
    },  
    {  
      "firstseen": "1578745692",  
      "hostname": "hub.example.com",  
      "id": "SHA=70138d580b9fd292ff856746df2fe7f9ded29db9ffca0c4d83acb97cde4d42",  
      "ip": "104.236.18.209",  
      "lastreport": "1582643974"  
    }  
  ]  
}
```

INVENTORY API

INVENTORY API ATTRIBUTES

```
curl -q -k --user $AUTHUSER:$PASSWORD \  
-X GET \  
https://$HUB/api/inventory/attributes-dictionary | \  
jq 'map(.attribute_name)[]'
```

```
curl -q -k --user $AUTHUSER:$PASSWORD \  
-X GET \  
https://$HUB/api/inventory/attributes-dictionary | \  
jq 'map(.attribute_name)[]'
```

"Policy Release Id"
"EC2 Image ID"
"CPU sockets"
"Uptime minutes"
"System product name"
"System manufacturer"
"SSH Host Key /etc/ssh/ssh_host_rsa_key.pub SHA256 Fingerprint"
"CISOfy Lynis finding count"
"Number linux kernel modules loaded"
"CISOfy Lynis datetime scan completed"
"Unexpected Local Users"
"SSH Host Key /etc/ssh/ssh_host_ecdsa_key.pub SHA256 Fingerprint"
"Last logged in ubuntu"
"Windows roles"
"IPv4 addresses"
"SSH Host Key Type /etc/ssh/ssh_host_ecdsa_key.pub"
"CMDB Business Unit"
"DigitalOcean Droplet ID"
"SSH Host Key Type /etc/ssh/ssh_host_dsa_key.pub"
"BIOS version"
"Memory size (MB)"
"MAC addresses"
"Last logged in cfapache"
"CISOfy Lynis Suggestion SSH-7408 details"
"OS kernel"
"Last logged in root"
"NAT Public IPv4"
"EC2 Instance ID"
"CFEngine ID"
"CISOfy Lynis Version"
"CISOfy Lynis Remediations implicitly enabled"
"Volume / Percent Disk Used"
"SSH Host Key Type /etc/ssh/ssh_host_ed25519_key.pub"
"EventLog MaxSize"
"Architecture"
"OS"

"CISOfy Lynis Suggestions"
"Virtual host"
"SSH Host Key Types"
"SSH Host Keys"
"ARRAY CIS0cy Lynis Remediations implicitly enabled"
"Number linux kernel moduels unused"
"SSH Host Key /etc/ssh/ssh_host_dsa_key.pub SHA256 Fingerprint"
"EventLog Retention"
"CFEngine roles"
"Local Users"
"CMDB Owner"
"CISOfy Lynis Control ID findings"
"SSH Host Key /etc/ssh/ssh_host_ed25519_key.pub SHA256 Fingerprint"
"legal notice caption"
"DigitalOcean Region"
"legal notice"
"Local User"
"Unused linux kernel modules"
"Data Container"
"Last logged in centos"
"CISOfy Lynis Hardening Index"
"CFEngine version"
"CISOfy Lynis Remediations explicitly disabled"
"Host name"
"SSH Host Key Fingerprint (ssh-keygen)"
"System UUID"
"System version"
"Registered Orginization"
"BIOS vendor"
"OS type"
"Disk free (%)"
"CISOfy Lynis Suggestion KRNL-6000 details"
"Ports listening"
"Users who have logged in"
"Last logged in nickanderson"
"EC2 Region"
"Interfaces"
"CISOfy Lynis Warnings"

"EC2 Availability Zone"
"Physical memory (MB)"
"Last logged in cfpostgres"
"Show Last Logged in Username"
"CPU physical cores"
"Volume /tmp Percent Disk Used"
"CPU logical cores"
"Volume /var Percent Disk Used"
"System serial number"
"Systemd services running"
"EC2 Instance Type"
"TestArray"
"Unexpected local user count"
"Used linux kernel modules"
"Registered Owner"
"SSH Host Key Type /etc/ssh/ssh_host_rsa_key.pub"
"CPU model"
"Cloud Provider"

INVENTORY API QUERY

```
curl -q -k --user $AUTHUSER:$PASSWORD \  
-X POST \  
https://$HUB/api/inventory \  
-H 'content-type: application/json' \  
-d '{  
    "sort": "Host name",  
    "select": [  
        "Host name",  
        "OS",  
        "Policy Release Id",  
        "IPv4 addresses",  
        "CFEngine version",  
        "Ports listening"  
    ],  
    "hostContextTnclude": [
```

HEALTH API

Get an overview of the health status

```
curl -s -k --user $AUTHUSER:$PASSWORD \
https://$HUB/api/health-diagnostic/status/ | jq
```

```
{
  "hostsNeverCollected": 2,
  "notRecentlyCollected": 3,
  "hostsUsingSameIdentity": 0,
  "agentNotRunRecently": 0,
  "lastAgentRunUnsuccessful": 0,
  "totalFailed": 5,
  "total": "8"
}
```

```
curl -s -k --user $AUTHUSER:$PASSWORD \
https://$HUB/api/health-diagnostic/report_ids | jq
```

Get an overview of the health status

```
curl -s -k --user $AUTHUSER:$PASSWORD \
-X POST \
https://$HUB/api/health-diagnostic/report/hostsNeverCollected \
-H 'Content-Type: application/json' \
-d '{"limit": 50}' | jq
```

QUERY API

```
curl -q -k --user $AUTHUSER:$PASSWORD \
-X POST \
https://$HUB/api/query \
-H 'content-type: application/json' \
-d '{
    "query": "select hostname, ipaddress from hosts",
    "limit": 2,
    "hostContextExclude": ["policy_server"]
}'
```

```
{  
  "data": [  
    {  
      "header": [  
        {  
          "columnName": "hostname",  
          "columnType": "STRING"  
        },  
        {  
          "columnName": "ipaddress",  
          "columnType": "STRING"  
        }  
      ],  
      "query": "select hostname, ipaddress from hosts",  
      "queryTimeMs": 21  
    }  
  ]  
}
```

Asynchronous query

```
curl -q -k --user $AUTHUSER:$PASSWORD \
-X POST \
https://$HUB/api/query/async \
-H 'content-type: application/json' \
-d '{
    "query": "select hostname, ipaddress from hosts",
    "outputType": "csv",
    "limit": 2,
    "hostContextExclude": ["policy_server"]
}'
```

```
{  
  "data": [  
    {  
      "id": "0eb39e8f20ed978a8f4b3167730b76fd",  
      "query": "select hostname, ipaddress from hosts"  
    }  
  ],  
  "meta": {  
    "count": 1,  
    "page": 1,  
    "timestamp": 1597765332,  
    "total": 1  
  }  
}
```

```
curl -q -k --user $AUTHUSER:$PASSWORD \
-X GET \
https://$HUB/api/query/async/0eb39e8f20ed978a8f4b3167730b76fd \
-H 'content-type: application/json'
```

```
{  
  "data": [  
    {  
      "href": "https://demohub.a10042.cfengine.com/tmp/0eb39e8f20ed978a8f4b3167730b76fd.csv",  
      "id": "0eb39e8f20ed978a8f4b3167730b76fd",  
      "percentageComplete": 100  
    }  
  ],  
  "meta": {  
    "count": 1,  
    "page": 1,  
    "timestamp": 1597765595,  
    "total": 1  
  }  
}
```

BASE64 ENCODED QUERY LINKS

```
HUB_URL="https://hub"
API="/index.php/advancedreports/#/report/run?sql="
SQL_QUERY="SELECT Hosts.HostName AS 'Host Name' FROM Hosts"
REPORT_TITLE="Example Report"
LINK="${HUB_URL}${API}$(echo ${SQL_QUERY} | \
    base64)&title=$(/usr/bin/urlencode ${REPORT_TITLE})"
echo "${LINK}"
```

ACTIONS

Actions API enables you to perform specific actions such as requesting report collection and triggering un-scheduled agent runs.

Note: Triggered actions (agent run, report collection) will not work for hosts that the hub cannot initiate connections to, e.g. hosts behind NAT.

TRIGGER REPORT COLLECTION

API call to trigger report collection

```
exec 2>&1
/var/cfengine/bin/curl \
--insecure \
--user admin:admin \
--write-out "HTTP %{response_code}" \
--request POST \
-H 'content-type: application/json' \
-d '{"hostkey": "SHA=55425b6c6c5fcd1ea7f00cf45736a3acd87a3503dc61abaf268ca59f47fe4a05"}'
https://hub.example.com/api/actions/report_collection
:
```

Array
HTTP 202

TRIGGER AGENT RUN

API call to trigger agent run

```
exec 2>&1
/var/cfengine/bin/curl \
--insecure \
--user admin:admin \
--write-out "HTTP %{response_code}" \
--request POST \
-H 'content-type: application/json' \
-d '{"hostkey": "SHA=55425b6c6c5fcd1ea7f00cf45736a3acd87a3503dc61abaf268ca59f47fe4a05"}'
https://hub.example.com/api/actions/agent_run
:
```

```
{
"output" : "",
"exit_code": 0
}
```

HTTP 202

WHAT'S NEW

COMING UP IN 3.21...

IN 3.20

- Build in Mission Portal

IN 3.19

- Importable Compliance Reports in Mission Portal

IN 3.18

- Host specific data (CMDB) in Mission Portal
- More powerful Augments syntax
- Custom promise types
- Compliance Reports in Mission Portal
- New functions:
 - `findfiles_up()`~`search_up()`
 - `int()`
 - `string()`
 - `type()`

IN 3.17

- New functions:
 - `execresult_as_data()`
- New function options:
 - `execresult()` can capture *stdout*, *stderr*, or *both*

IN 3.16

COMPONENTS

Usage: cf-secret COMMAND [OPTIONS] [FILE]

Commands:

- | | |
|---------------|---|
| encrypt | - Encrypt data for one or more hosts/keys.
Usage: cf-secret encrypt -k/-H KEY/HOST -o OUTPUT INPUT |
| decrypt | - Decrypt data.
Usage: cf-secret decrypt [-k/-H KEY/HOST] -o OUTPUT INPUT |
| print-headers | - Print headers from an encrypted file.
Usage: cf-secret print-headers ENCRYPTED_FILE |

Options:

- | | | |
|-------------|------------|--|
| --help | , -h | - Print the help message |
| --manpage | , -M | - Print the man page |
| --debug | , -d | - Enable debugging output |
| --verbose | , -v | - Enable verbose output |
| --log-level | , -g value | - Specify how detailed logs should be. Possible values: 'error', 'warning', 'info', 'debug', 'trace'. Default is 'info'. |
| --inform | , -I | - Enable basic information output |
| --key | , -k value | - Comma-separated list of key files to use (one of -k/-H options is required) |
| --host | , -H value | - Comma-separated list of hosts to encrypt/decrypt for (defaults to all hosts in the key files) |
| --output | , -o value | - Output file (required) |

Website: <http://www.cfengine.com>

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Encrypt data with cf-secret from STDIN

```
cf-secret encrypt \
--key ~/.cfagent/ppkeys/localhost.pub \
--output /tmp/secrets.json.cfsecret \
<\(echo '{ "username": "secret_user", "password": "secret_token" }'\)\
cf-secret print-headers /tmp/secrets.json.cfsecret
```

Version: 1.0

Encrypted-for: SHA=43c979e264924d0b4a2d3b568d71ab8c768ef63487670f2c51cd85e8cec63834

Using cf-secret binary from policy

```
bundle agent example_load_encrypted_data
{
  vars:
    "decrypt_cmd"
      string => concat( "$(sys.bindir)/cf-secret decrypt ",
                         "--key $(sys.workdir)/ppkeys/localhost.priv ",
                         "--output - ",
                         "/tmp/secrets.json.cfsecret" );

    "d" data => parsejson( execresult( $(decrypt_cmd), noshell) );

  reports:
    "username: $(d[username])";
    "password: $(d[password])";
}
```

```
R: username: secret_user
R: password: secret_token
```

PROMISE ATTRIBUTES

Example illustrating files content attribute

```
bundle agent example_file_content
# @brief Example showing files content
{
  files:
    "/tmp/hello_string"
      create => "true",
      content => "Hello from string!";

  reports:
    "/tmp/hello_string"
      printfile => cat( $(this.promiser) );
}

bundle agent __main__
{
```

```
  info: Created file '/tmp/hello_string', mode 0600
  info: Updated content of '/tmp/hello_string' with content 'Hello from string!'
  info: files promise '/tmp/hello_string' repaired
R: /tmp/hello_string
R: Hello from string!
```

FUNCTIONS

Complementary to new macros:

- cf_version_after()
- cf_version_at()
- cf_version_before()
- cf_version_between()
- cf_version_maximum()
- cf_version_maximum()
- cf_version_minimum()

Example showing cf_after_version() function

```
bundle agent example_cf_after_version_function
{
  reports:
    "$(sys.cf_version) is newer than 3.7.0"
      if => cf_version_after("3.7.0");

    "$(sys.cf_version) is NOT newer than 3.7.0"
      unless => cf_version_after("3.7.0");
}
bundle agent __main__
{
  methods: "example_cf_after_version_function";
}
```

```
R: 3.17.0a.82c3b3656 is newer than 3.7.0
```

Manipulating strings:

- `string_trim()`

Example showing string_trim()

```
bundle agent example_string_trim
{
  vars:
    "my_string" string => " Trim me please ";
  reports:
    "my_string: '$(with)'"
      with => $my_string;

    "my_string trimmed: '$(with)'"
      with => string_trim( $my_string );
}

bundle agent __main__
{
  methods: "example_string_trim":
```

R: my_string: ' Trim me please '
R: my_string trimmed: 'Trim me please'

Data validation:

- `validdata()`
- `validjson()`

Example showing string_trim()

```
bundle agent example_validjson
{
  vars:
    "valid_json" string => '{ "valid": "json" }';
    "invalid_json" string => '{ "invalid": "json" }';
  reports:
    "valid_json is valid json"
      if => validjson( $(valid_json) );

    "valid_json is NOT valid json"
      unless => validjson( $(invalid_json) );
}
bundle agent __main__
{
```

```
R: valid_json is valid json
R: valid_json is NOT valid json
```

MACROS

- maximum_version
- else
- at_version
- between_versions
- before_version
- after_version

Example showing after_version and else macros

```
bundle agent example_macros_new_in_cfengine_3_16
{
@if after_version(3.7.0)
  reports:
    "$(sys.cf_version) is newer than 3.7.0";
@else
    "$(sys.cf_version) is NOT newer than 3.7.0";
@endif
}
bundle agent __main__
{
  methods: "example_macros_new_in_cfengine_3_16";
}
```

```
R: 3.17.0a.82c3b3656 is newer than 3.7.0
```

ENTERPRISE EDITION

- Compliance Reports

IN 3.15

FUNCTIONS

- basename()
- read_module_protocol()

Example illustrating basename()

```
bundle agent example_basename
{
  vars:
    "basename" -> { "CFE-3196" }
      string => basename( $(this.promise_filename) );

    "basename_wo_extension" -> { "CFE-3196" }
      string => basename( $(this.promise_filename), ".cf" );
  reports:
    "basename = '$(basename)'";
    "basename without '.cf' extension = '$(basename_wo_extension)'";
}
```

```
# cf-agent --bundlesequence example_basename --no-lock --log-level info --file /home/nickande
  info: Using command line specified bundlesequence
R: basename = 'cfengine3-NiK6sU'
R: basename without '.cf' extension = 'cfengine3-NiK6sU'
```

examples/read_module_protocol.cf

```
bundle agent cache_maintenance
# Creates a module protocol cache, refreshes it if minute is 30-35
{
vars:
  "file"
    string => "$(this.promise_dirname)/cached_module";

classes:
  "cache_refresh"
    if => not(fileexists "$(file)");
Min30_35:::
  "cache_refresh";

files:
  cache_refresh::
```

```
bundle agent demo
# Demonstrates read_module_protocol function, prints a variable from it
{
  classes:
    "cache_was_read"
      if => read_module_protocol("${cache_maintenance.file}");

  reports:
    cache_was_read::
      "Module cache was read!";
      "cached_module.my_variable = ${cached_module.my_variable}";
}
bundle agent __main__
{
  methods:
```

```
R: Module cache was read!
R: cached_module.my_variable = Mon Feb  3 05:32:05 2020
```

IN 3.14

FUNCTIONS

- `classfiltercsv()` (back-ported to 3.12.1)

examples/classfiltercsv.csv

```
ClassExpr,Sort,Token,Value
# This is a comment
any,A,net.ipv4.ip_forward,ANYVALUE
example_class1,z,net.ipv4.ip_forward,ANYVALUE
example_class2,a,net.ipv4.ip_forward,127.0.0.3
not_defined,Z,net.ipv4.ip_forward,NOT_DEFINED
example_class3.example_class2.example_class1,1,net.ipv4.ip_forward,127.0.0.4
also_undefined,0,net.ipv4.ip_forward,NOT_DEFINED
```

NOTE: CRLF (Windows/DOS) line endings required per RFC

```
dos2unix ./examples/classfiltercsv.csv
```

examples/classfiltercsv.cf

```
bundle agent example_classfiltercsv
{
  classes:
    "example_class1";
    "example_class2";
    "example_class3";

  vars:
    "data_file"
      string => "$(this.promise dirname)/examples/classfiltercsv.csv";
    "d" data => classfiltercsv($(data_file), "true", 0, 1);

  reports:
    "Filtered data: $(with)" with => string_mustache("{{%-top-}}", d);
}
```

```
R: Filtered data: [
  {
    "Sort": "1",
    "Token": "net.ipv4.ip_forward",
    "Value": "127.0.0.4"
  },
  {
    "Sort": "A",
    "Token": "net.ipv4.ip_forward",
    "Value": "ANYVALUE"
  },
  {
    "Sort": "a",
    "Token": "net.ipv4.ip_forward",
    "Value": "127.0.0.3"
  },
  {
    "Sort": "z",
    "Token": "net.ipv4.ip_forward",
    "Value": "ANYVALUE"
  }
]
```

IN 3.13

FUNCTIONS

- `string_replace()`

examples/string_replace.cf

```
bundle agent example_string_replace
{
  vars:
    "my_string"
      string => "Bash is the best config management tool";
  reports:
    "$(with)" with => string_replace( $(my_string),
                                         "Bash", "CFEngine" );
}
bundle agent __main__
{
  methods: "example_string_replace";
}
```

R: CFEngine is the best config management tool

IN 3.12

FUNCTIONS

- `hash_to_int()`

examples/hash_to_int.cf

```
bundle agent example_hash_to_int
{
  vars:
    "hello"  int => hash_to_int(0, 1000, "hello");
    "world"  int => hash_to_int(0, 1000, "world");

    # Hash can vary on hostkey or policy hub:
    "hour"   int => hash_to_int(0, 24, "$(sys.key_digest)");
    "minute" int => hash_to_int(0, 60, "$(sys.policy_hub)");

  reports:
    "'hello' hashed to: $(hello)";
    "'world' hashed to: $(world)";

}
```

```
R: 'hello' hashed to: 172
R: 'world' hashed to: 760
```

LIBRARY MAIN BUNDLES

- Default bundle per policy file
- Useful for testing

examples/library_main_/example_library_main_1.cf

```
bundle agent example_library_main_1
{
  reports: "Hello from $(this.bundle)";
}
bundle agent __main__
{
  methods:
    "example_library_main_1";
}
```

What output do you get when you run the policy file ?

Executing

examples/library_main_/example_library_main_1.cf

```
cf-agent -KIf ./example_library_main_1.cf
```

```
R: Hello from example_library_main_1
```

examples/library_main_/example_library_main_2.cf

```
bundle agent example_library_main_2
{
  reports: "Hello from $(this.bundle)";
}
bundle agent __main__
{
  methods:
    "example_library_main_2";
}
```

Executing

examples/library_main_/example_library_main_2.cf

```
cf-agent -KIf ./example_library_main_2.cf
```

```
R: Hello from example_library_main_2
```

examples/library_main_/example_library_main_.cf

```
body file control
{
  inputs => {
    "example_library_main_1.cf",
    "example_library_main_2.cf",
  };
}
bundle agent example_library_main_
{
  reports: "Hello from $(this.bundle)";
}
bundle agent __main__
{
  vars: "b" slist => bundlesmatching( "example_.*" );
  methods:
```

What output do you get when you run the policy file ?

Executing

examples/library_main_/example_library_main_.cf

```
cf-agent -KIf ./example_library_main_.cf
```

```
example_library_main_1.cf
example_library_main_2.cf
example_library_main_.cf
#!/var/cfengine/bin(cf-agent -f-
body file control
{
    inputs => { '$(sys.libdir)/stdlib.cf' };
}

bundle agent example_library_main_1
{
    reports: "Hello from $(this.bundle)";
}
bundle agent __main__
{
    methods:
        "example_library_main_1";
}
#!/var/cfengine/bin(cf-agent -f-
body file control
{
    inputs => { '$(sys.libdir)/stdlib.cf' };
}

bundle agent example_library_main_2
{
    reports: "Hello from $(this.bundle)";
}
bundle agent __main__
{
    methods:
        "example_library_main_2";
}
#!/var/cfengine/bin(cf-agent -f-
body file control
{
```

```
inputs => { '$(sys.libdir)/stdlib.cf' };

body file control
{
    inputs => {
        "example_library_main_1.cf",
        "example_library_main_2.cf",
    };
}
bundle agent example_library_main_
{
    reports: "Hello from $(this.bundle)";
}
bundle agent __main__
{
    vars: "b" slist => bundlesmatching( "example_.*" );
    methods:
        "example_library_main_";
        "example_library_main_1";
        "example_library_main_2";
    reports: "$(b)";
}
R: Hello from example_library_main_
    error: A method attempted to use a bundle 'example_library_main_1' that was apparently no
    error: A method attempted to use a bundle 'example_library_main_2' that was apparently no
```

-LOG-LEVEL OPTION

examples/example_log_level_inform.cf

```
bundle agent main
{
  reports:
    inform_mode:: "Running with info level logging";
}
```

```
# cf-agent --no-lock --inform --file ./examples/example_log_level_inform.cf
R: Running with info level logging
```

```
# cf-agent --no-lock --log-level inform --file ./examples/example_log_level_inform.cf
R: Running with info level logging
```

PROMISE ATTRIBUTES

- `copy_from` body attribute `missing_ok` allows missing upstream files to be considered promise kept
- files promise `template_method` accepts `inline_mustache`
- files promise `edit_template_string` defines inline mustache

```
./examples/whats_new_3_12_missing_ok.cf
```

```
bundle agent example_missing_ok
{
  vars:
    copy_from_missing_ok_reached::
      "_c"
      string => string_mustache( "{{%-top-}}",
                                  sort( classesmatching( "copy_from_.*" ), lex));
  files:
    "/tmp/copied_from_missing_ok"
      copy_from => missing_ok( "/var/cfengine/masterfiles/missing" ),
      classes => results("bundle", "copy_from_missing_ok");
  reports:
    "$(_c)" if => isvariable( _c );
}
```

```
R: [  
  "copy_from_missing_ok_kept",  
  "copy_from_missing_ok_reached"  
]
```

examples/whats_new_3_12_inline_mustache.cf

```
bundle agent example_inline_mustache
{
  vars:
    "d" data => '{
      "Name": "Bruce Wayne",
      "Secret Identity": "Batman"
    }';
  files:
    "/tmp/${this.bundle}"
      create => "true",
      template_method => "inline_mustache",
      template_data => @(d),
      edit_template_string => 'Did you know that {{{Name}}}
... is really {{{Secret Identity}}}!?'
```

```
# cf-agent --no-lock --file examples/whats_new_3_12_inline_mustache.cf
R: /tmp/example_inline_mustache
R: Did you know that Bruce Wayne
R: ... is really Batman!?
```

SYS VARS

- sys.policy_entry*
-

IN 3.11

PROMISE ATTRIBUTES

- with

FUNCTIONS

- `data_sysctlvalues()`
- `readenvfile()`
- `sysctlvalue()`

examples/data_sysctlvalues.cf

```
bundle agent example_data_sysctlvalues
{
  vars:
    "_d" data => data_sysctlvalues();
  reports:
    "$(with)"
      with => string_mustache( "{{%-top-}}", _d );
}
bundle agent __main__
{
  methods: "example_data_sysctlvalues";
}
```

```
R: {
  "abi.vsyscall32": "1",
  "debug.exception-trace": "1",
  "debug.kprobes-optimization": "1",
  "dev.cdrom.autoclose": "1",
  "dev.cdrom.autoeject": "0",
  "dev.cdrom.check_media": "0",
  "dev.cdrom.debug": "0",
  "dev.cdrom.info": "CD-ROM information, Id: cdrom.c 3.20 2003/12/17\n\ndrive name:\t\\ndrive",
  "dev.cdrom.lock": "0",
  "dev.hpet.max-user-freq": "64",
  "dev.i915.oa_max_sample_rate": "100000",
  "dev.i915.perf_stream_paranoid": "1",
  "dev.mac_hid.mouse_button2_keycode": "97",
  "dev.mac_hid.mouse_button3_keycode": "100",
  "dev.mac_hid.mouse_button_emulation": "0",
  "dev.parport.default.spintime": "500",
  "dev.parport.default.timeslice": "200",
  "dev.raid.speed_limit_max": "200000",
  "dev.raid.speed_limit_min": "1000",
  "dev.scsi.logging_level": "0",
```


"fs.overflowgid": "65534",
"fs.overflowuid": "65534",
"fs.pipe-max-size": "1048576",
"fs.pipe-user-pages-hard": "0",
"fs.pipe-user-pages-soft": "16384",
"fs.quota.allocated_dquots": "0",
"fs.quota.cache_hits": "0",
"fs.quota.drops": "0",
"fs.quota.free_dquots": "0",
"fs.quota.lookups": "0",
"fs.quota.reads": "0",
"fs.quota.syncs": "26",
"fs.quota.writes": "0",
"fs.suid_dumpable": "2",
"fs.verity.require_signatures": "0",
"fscache.object_max_active": "8",
"fscache.operation_max_active": "4",
"kernel.acct": "4\t2\t30",
"kernel.acpi_video_flags": "0",
"kernel.auto_msgmni": "0",
"kernel.bootloader_type": "6",
"kernel.bootloader_version": "38",
"kernel.bpf_stats_enabled": "0",
"kernel.cap_last_cap": "37",
"kernel.core_pattern": "|/usr/share/apport/apport %p %s %c %d %P %E",
"kernel.core_pipe_limit": "0",
"kernel.core_uses_pid": "0",
"kernel.ctrl-alt-del": "0",
"kernel.dmesg_restrict": "0",
"kernel.domainname": "(none)",
"kernel.firmware_config.force_sysfs_fallback": "0",
"kernel.firmware_config.ignore_sysfs_fallback": "0",
"kernel.ftrace_dump_on_oops": "0",
"kernel.ftrace_enabled": "1",
"kernel.hardlockup_all_cpu_backtrace": "0",
"kernel.hardlockup_panic": "0",
"kernel.hostname": "nickanderson-ThinkPad-W550s",
"kernel.hotplug": "",

"kernel.hung_task_check_count": "4194304",
"kernel.hung_task_check_interval_secs": "0",
"kernel.hung_task_panic": "0",
"kernel.hung_task_timeout_secs": "120",
"kernel.hung_task_warnings": "8",
"kernel.io_delay_type": "1",
"kernel.kexec_load_disabled": "0",
"kernel.keys.gc_delay": "300",
"kernel.keys.maxbytes": "20000",
"kernel.keys.maxkeys": "200",
"kernel.keys.persistent_keyring_expiry": "259200",
"kernel.keys.root_maxbytes": "25000000",
"kernel.keys.root_maxkeys": "1000000",
"kernel.kptr_restrict": "1",
"kernel.latencytop": "0",
"kernel.max_lock_depth": "1024",
"kernel.modprobe": "/sbin/modprobe",
"kernel.modules_disabled": "0",
"kernel.msg_next_id": "-1",
"kernel.msgmax": "8192",
"kernel.msgmnb": "16384",
"kernel.msgmni": "32000",
"kernel.ngroups_max": "65536",
"kernel.nmi_watchdog": "0",
"kernel.ns_last_pid": "1116084",
"kernel.numa_balancing": "0",
"kernel.numa_balancing_scan_delay_ms": "1000",
"kernel.numa_balancing_scan_period_max_ms": "60000",
"kernel.numa_balancing_scan_period_min_ms": "1000",
"kernel.numa_balancing_scan_size_mb": "256",
"kernel.osrelease": "5.4.0-42-lowlatency",
"kernel.ostype": "Linux",
"kernel.overflowgid": "65534",
"kernel.overflowuid": "65534",
"kernel.panic": "0",
"kernel.panic_on_io_nmi": "0",
"kernel.panic_on_oops": "0",
"kernel.panic_on_rcu_stall": "0",

"kernel.panic_on_unrecovered_nmi": "0",
"kernel.panic_on_warn": "0",
"kernel.panic_print": "0",
"kernel.perf_cpu_time_max_percent": "25",
"kernel.perf_event_max_contexts_per_stack": "8",
"kernel.perf_event_max_sample_rate": "100000",
"kernel.perf_event_max_stack": "127",
"kernel.perf_event_mlock_kb": "516",
"kernel.perf_event_paranoid": "3",
"kernel.pid_max": "4194304",
"kernel.poweroff_cmd": "/sbin/poweroff",
"kernel.print-fatal-signals": "0",
"kernel printk": "4\t4\t1\t7",
"kernel printk_delay": "0",
"kernel printk_devkmsg": "on",
"kernel printk_ratelimit": "5",
"kernel printk_ratelimit_burst": "10",
"kernel.pty.max": "4096",
"kernel.pty.nr": "8",
"kernel.pty.reserve": "1024",
"kernel.random.boot_id": "fdf58181-01bd-4d59-a45d-c56bca7ecef",
"kernel.random.entropy_avail": "3936",
"kernel.random.poolsize": "4096",
"kernel.random.read_wakeup_threshold": "64",
"kernel.random.urandom_min_reseed_secs": "60",
"kernel.random.uuid": "81b27359-dcd8-4d6b-9173-1ae8b4d71a94",
"kernel.random.write_wakeup_threshold": "1024",
"kernel.randomize_va_space": "2",
"kernel.real-root-dev": "0",
"kernel.sched_autogroup_enabled": "1",
"kernel.sched_cfs_bandwidth_slice_us": "5000",
"kernel.sched_child_runs_first": "0",
"kernel.sched_domain.cpu0.domain0.busy_factor": "32",
"kernel.sched_domain.cpu0.domain0.cache_nice_tries": "0",
"kernel.sched_domain.cpu0.domain0.flags": "4783",
"kernel.sched_domain.cpu0.domain0.imbalance_pct": "110",
"kernel.sched_domain.cpu0.domain0.max_interval": "4",
"kernel.sched_domain.cpu0.domain0.max_newidle_lb_cost": "20996",

"kernel.sched_domain.cpu0.domain0.min_interval": "2",
"kernel.sched_domain.cpu0.domain0.name": "SMT",
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"net.ipv6.neigh.vboxnet6.base_reachable_time_ms": "30000",
"net.ipv6.neigh.vboxnet6.delay_first_probe_time": "5",
"net.ipv6.neigh.vboxnet6.gc_stale_time": "60",
"net.ipv6.neigh.vboxnet6.locktime": "0",
"net.ipv6.neigh.vboxnet6.mcast_resolicit": "0",
"net.ipv6.neigh.vboxnet6.mcast_solicit": "3",
"net.ipv6.neigh.vboxnet6.proxy_delay": "80",
"net.ipv6.neigh.vboxnet6.proxy_qlen": "64",

"net.ipv6.neigh.vboxnet6.retrans_time": "1000",
"net.ipv6.neigh.vboxnet6.retrans_time_ms": "1000",
"net.ipv6.neigh.vboxnet6.ucast_solicit": "3",
"net.ipv6.neigh.vboxnet6.unres_qlen": "101",
"net.ipv6.neigh.vboxnet6.unres_qlen_bytes": "212992",
"net.ipv6.neigh.vboxnet7.anycast_delay": "100",
"net.ipv6.neigh.vboxnet7.app_solicit": "0",
"net.ipv6.neigh.vboxnet7.base_reachable_time": "30",
"net.ipv6.neigh.vboxnet7.base_reachable_time_ms": "30000",
"net.ipv6.neigh.vboxnet7.delay_first_probe_time": "5",
"net.ipv6.neigh.vboxnet7.gc_stale_time": "60",
"net.ipv6.neigh.vboxnet7.locktime": "0",
"net.ipv6.neigh.vboxnet7.mcast_resolicit": "0",
"net.ipv6.neigh.vboxnet7.mcast_solicit": "3",
"net.ipv6.neigh.vboxnet7.proxy_delay": "80",
"net.ipv6.neigh.vboxnet7.proxy_qlen": "64",
"net.ipv6.neigh.vboxnet7.retrans_time": "1000",
"net.ipv6.neigh.vboxnet7.retrans_time_ms": "1000",
"net.ipv6.neigh.vboxnet7.ucast_solicit": "3",
"net.ipv6.neigh.vboxnet7.unres_qlen": "101",
"net.ipv6.neigh.vboxnet7.unres_qlen_bytes": "212992",
"net.ipv6.neigh.vboxnet8.anycast_delay": "100",
"net.ipv6.neigh.vboxnet8.app_solicit": "0",
"net.ipv6.neigh.vboxnet8.base_reachable_time": "30",
"net.ipv6.neigh.vboxnet8.base_reachable_time_ms": "30000",
"net.ipv6.neigh.vboxnet8.delay_first_probe_time": "5",
"net.ipv6.neigh.vboxnet8.gc_stale_time": "60",
"net.ipv6.neigh.vboxnet8.locktime": "0",
"net.ipv6.neigh.vboxnet8.mcast_resolicit": "0",
"net.ipv6.neigh.vboxnet8.mcast_solicit": "3",
"net.ipv6.neigh.vboxnet8.proxy_delay": "80",
"net.ipv6.neigh.vboxnet8.proxy_qlen": "64",
"net.ipv6.neigh.vboxnet8.retrans_time": "1000",
"net.ipv6.neigh.vboxnet8.retrans_time_ms": "1000",
"net.ipv6.neigh.vboxnet8.ucast_solicit": "3",
"net.ipv6.neigh.vboxnet8.unres_qlen": "101",
"net.ipv6.neigh.vboxnet8.unres_qlen_bytes": "212992",
"net.ipv6.neigh.vboxnet9.anycast_delay": "100",

"net.ipv6.neigh.vboxnet9.app_solicit": "0",
"net.ipv6.neigh.vboxnet9.base_reachable_time": "30",
"net.ipv6.neigh.vboxnet9.base_reachable_time_ms": "30000",
"net.ipv6.neigh.vboxnet9.delay_first_probe_time": "5",
"net.ipv6.neigh.vboxnet9.gc_stale_time": "60",
"net.ipv6.neigh.vboxnet9.locktime": "0",
"net.ipv6.neigh.vboxnet9.mcast_resolicit": "0",
"net.ipv6.neigh.vboxnet9.mcast_solicit": "3",
"net.ipv6.neigh.vboxnet9.proxy_delay": "80",
"net.ipv6.neigh.vboxnet9.proxy_qlen": "64",
"net.ipv6.neigh.vboxnet9.retrans_time": "1000",
"net.ipv6.neigh.vboxnet9.retrans_time_ms": "1000",
"net.ipv6.neigh.vboxnet9.unicast_solicit": "3",
"net.ipv6.neigh.vboxnet9.unres_qlen": "101",
"net.ipv6.neigh.vboxnet9.unres_qlen_bytes": "212992",
"net.ipv6.neigh.virbr0-nic.anycast_delay": "100",
"net.ipv6.neigh.virbr0-nic.app_solicit": "0",
"net.ipv6.neigh.virbr0-nic.base_reachable_time": "30",
"net.ipv6.neigh.virbr0-nic.base_reachable_time_ms": "30000",
"net.ipv6.neigh.virbr0-nic.delay_first_probe_time": "5",
"net.ipv6.neigh.virbr0-nic.gc_stale_time": "60",
"net.ipv6.neigh.virbr0-nic.locktime": "0",
"net.ipv6.neigh.virbr0-nic.mcast_resolicit": "0",
"net.ipv6.neigh.virbr0-nic.mcast_solicit": "3",
"net.ipv6.neigh.virbr0-nic.proxy_delay": "80",
"net.ipv6.neigh.virbr0-nic.proxy_qlen": "64",
"net.ipv6.neigh.virbr0-nic.retrans_time": "1000",
"net.ipv6.neigh.virbr0-nic.retrans_time_ms": "1000",
"net.ipv6.neigh.virbr0-nic.unicast_solicit": "3",
"net.ipv6.neigh.virbr0-nic.unres_qlen": "101",
"net.ipv6.neigh.virbr0-nic.unres_qlen_bytes": "212992",
"net.ipv6.neigh.virbr0.anycast_delay": "100",
"net.ipv6.neigh.virbr0.app_solicit": "0",
"net.ipv6.neigh.virbr0.base_reachable_time": "30",
"net.ipv6.neigh.virbr0.base_reachable_time_ms": "30000",
"net.ipv6.neigh.virbr0.delay_first_probe_time": "5",
"net.ipv6.neigh.virbr0.gc_stale_time": "60",
"net.ipv6.neigh.virbr0.locktime": "0",

"net.ipv6.neigh.virbr0.mcast_resolicit": "0",
"net.ipv6.neigh.virbr0.mcast_solicit": "3",
"net.ipv6.neigh.virbr0.proxy_delay": "80",
"net.ipv6.neigh.virbr0.proxy_qlen": "64",
"net.ipv6.neigh.virbr0.retrans_time": "1000",
"net.ipv6.neigh.virbr0.retrans_time_ms": "1000",
"net.ipv6.neigh.virbr0.unicast_solicit": "3",
"net.ipv6.neigh.virbr0.unres_qlen": "101",
"net.ipv6.neigh.virbr0.unres_qlen_bytes": "212992",
"net.ipv6.neigh.wlan0.anycast_delay": "100",
"net.ipv6.neigh.wlan0.app_solicit": "0",
"net.ipv6.neigh.wlan0.base_reachable_time": "30",
"net.ipv6.neigh.wlan0.base_reachable_time_ms": "30000",
"net.ipv6.neigh.wlan0.delay_first_probe_time": "5",
"net.ipv6.neigh.wlan0.gc_stale_time": "60",
"net.ipv6.neigh.wlan0.locktime": "0",
"net.ipv6.neigh.wlan0.mcast_resolicit": "0",
"net.ipv6.neigh.wlan0.mcast_solicit": "3",
"net.ipv6.neigh.wlan0.proxy_delay": "80",
"net.ipv6.neigh.wlan0.proxy_qlen": "64",
"net.ipv6.neigh.wlan0.retrans_time": "1000",
"net.ipv6.neigh.wlan0.retrans_time_ms": "1000",
"net.ipv6.neigh.wlan0.unicast_solicit": "3",
"net.ipv6.neigh.wlan0.unres_qlen": "101",
"net.ipv6.neigh.wlan0.unres_qlen_bytes": "212992",
"net.ipv6.route.gc_elasticity": "9",
"net.ipv6.route.gc_interval": "30",
"net.ipv6.route.gc_min_interval": "0",
"net.ipv6.route.gc_min_interval_ms": "500",
"net.ipv6.route.gc_thresh": "1024",
"net.ipv6.route.gc_timeout": "60",
"net.ipv6.route.max_size": "4096",
"net.ipv6.route.min_adv_mss": "1220",
"net.ipv6.route.mtu_expires": "600",
"net.ipv6.route.skip_notify_on_dev_down": "0",
"net.ipv6.seg6_flowlabel": "0",
"net.ipv6.xfrm6_gc_thresh": "32768",
"net.netfilter.nf_conntrack_acct": "0",

```
"net.netfilter.nf_conntrack_buckets": "65536",
"net.netfilter.nf_conntrack_checksum": "1",
"net.netfilter.nf_conntrack_count": "224",
"net.netfilter.nf_conntrack_dccp_loose": "1",
"net.netfilter.nf_conntrack_dccp_timeout_closereq": "64",
"net.netfilter.nf_conntrack_dccp_timeout_closing": "64",
"net.netfilter.nf_conntrack_dccp_timeout_open": "43200",
"net.netfilter.nf_conntrack_dccp_timeout_partopen": "480",
"net.netfilter.nf_conntrack_dccp_timeout_request": "240",
"net.netfilter.nf_conntrack_dccp_timeout_respond": "480",
"net.netfilter.nf_conntrack_dccp_timeout_timewait": "240",
"net.netfilter.nf_conntrack_events": "1",
"net.netfilter.nf_conntrack_expect_max": "1024",
"net.netfilter.nf_conntrack_frag6_high_thresh": "4194304",
"net.netfilter.nf_conntrack_frag6_low_thresh": "3145728",
"net.netfilter.nf_conntrack_frag6_timeout": "60",
"net.netfilter.nf_conntrack_generic_timeout": "600",
"net.netfilter.nf_conntrack_gre_timeout": "30",
"net.netfilter.nf_conntrack_gre_timeout_stream": "180",
"net.netfilter.nf_conntrack_helper": "0",
"net.netfilter.nf_conntrack_icmp_timeout": "30",
"net.netfilter.nf_conntrack_icmpv6_timeout": "30",
"net.netfilter.nf_conntrack_log_invalid": "0",
"net.netfilter.nf_conntrack_max": "262144",
"net.netfilter.nf_conntrack_sctp_timeout_closed": "10",
"net.netfilter.nf_conntrack_sctp_timeout_cookie_echoed": "3",
"net.netfilter.nf_conntrack_sctp_timeout_cookie_wait": "3",
"net.netfilter.nf_conntrack_sctp_timeout_established": "432000",
"net.netfilter.nf_conntrack_sctp_timeout_heartbeat_acked": "210",
"net.netfilter.nf_conntrack_sctp_timeout_heartbeat_sent": "30"
```

examples/sysctlvalue.cf

```
bundle agent example_sysctlvalue
{
  vars:
    "kernel_keys_gc_delay"
      string => sysctlvalue("kernel.keys.gc_delay");

  reports:
    "kernel.keys.gc_delay: ${kernel_keys_gc_delay}";
}
bundle agent __main__
{
  methods: "example_sysctlvalue";
}
```

```
R: kernel.keys.gc_delay: 300
```

examples/readenvfile.cf

```
bundle agent example_readenvfile
{
  vars:
    "_d" data => readenvfile("/etc/os-release");

  reports:
    "${(with)}" with => string_mustache( "{{%-top-}}", _d );
}
bundle agent __main__
{
  methods: "example_readenvfile";
}
```

```
R: {
  "BUG_REPORT_URL": "https://bugs.launchpad.net/ubuntu/",
  "HOME_URL": "https://www.ubuntu.com/",
```

```
"ID": "ubuntu",
"ID_LIKE": "debian",
"NAME": "Ubuntu",
"PRETTY_NAME": "Ubuntu 20.04.1 LTS",
"PRIVACY_POLICY_URL": "https://www.ubuntu.com/legal/terms-and-policies/privacy-policy",
"SUPPORT_URL": "https://help.ubuntu.com/",
"UBUNTU_CODENAME": "focal",
"VERSION": "20.04.1 LTS (Focal Fossa)",
"VERSION_CODENAME": "focal",
"VERSION_ID": "20.04"
```

{}

IN 3.10

FUNCTIONS

- `getuserinfo()`
- `isipinsubnet()`
- `variablesmatching_as_data()`

examples/getuserinfo.cf

```
bundle agent example_getuserinfo
{
  vars:
    "_user_info" data => userinfo("root");
    "_user_info_str" string => format( "%S", _user_info);
  reports:
    "$(_user_info_str)";
}
bundle agent __main__
{
  methods: "example_getuserinfo";
}
```

```
R: {"description": "root", "gid": 0, "home_dir": "/root", "shell": "/bin/bash", "uid": 0, "username": "root"}
```

examples/isipinsubnet.cf

```
bundle agent example_isipinsubnet
{
  classes:
    "192_168_0_1_in_192_168_0_0_24"
      expression => isipinsubnet( "192.168.0.0/24", "192.168.0.1" );
    "192_168_99_1_in_192_168_0_0_24"
      expression => isipinsubnet( "192.168.0.0/24", "192.168.99.1" );

  reports:
    192_168_0_1_in_192_168_0_0_24::
      "192.168.0.1 is in 192.168.0.0/24";
    !192_168_99_1_in_192_168_0_0_24::
      "192.168.99.1 not in 192.168.0.0/24";
}
bundle agent main
```

```
R: 192.168.0.1 is in 192.168.0.0/24
R: 192.168.99.1 not in 192.168.0.0/24
```

examples/variablesmatching_as_data.cf

```
bundle agent example_variablesmatching_as_data
{
  vars:
    "ports" data => variablesmatching_as_data(".", "port" );
    "ports_str" string => format( "%S", ports );
  reports:
    "$(ports_str)";
}
bundle agent one
{
  vars:
    "the_port" string => "443", meta => { "port" };
}
bundle agent two
{
```

```
R: {"default:one.the_port": "443", "default:two.my_port": "80"}
```

IN 3.9

FUNCTIONS

- callstack_callers()
- callstack_promisers()
- network_connections()
- findprocesses()
- processexists()
- regex_replace()

examples/regex_replace.cf

```
bundle agent example_regex_replace
{
  vars:
    "my_string"
      string => "Perl is the best config management tool";
  reports:
    "$(with)" with => regex_replace( $(my_string),
                                         "^\\w+", "CFEngine", "" );
}
bundle agent __main__
{
  methods: "example_regex_replace";
}
```

```
R: CFEngine is the best config management tool
```

examples/processexists.cf

```
bundle agent example_processexists
{
  reports:
    "Emacs is running" if => processexists( ".*emacs.*");
    "Emacs is NOT running" unless => processexists( ".*emacs.*");
}
bundle agent __main__
{
  methods: "example_processexists";
}
```

R: Emacs is running

examples/findprocesses.cf

```
bundle agent example_findprocesses
{
  vars:
    "_emacs_procs" data => findprocesses( ".*emacs.*" );
    "_i" slist => getindices( _emacs_procs );
  reports:
    "Emacs process: ${_emacs_procs[$(_i)][line]}";
}
bundle agent __main__
{
  methods: "example_findprocesses";
}
```

R: Emacs process: nickanderson	1064467	1064418	1064467	0.0	0.0	5116	0
R: Emacs process: nickanderson	1064418	4439	4438	14.3	1.7	987916	0
R: Emacs process: nickanderson	4593	4355	4355	0.2	1.0	1161376	0

examples/callstack_promisers.cf

```
bundle agent example_callstack_promisers
{
  methods:
    "Second promiser"
      usebundle => my_bundle;
}
bundle agent my_bundle
{
  vars:
    "Callers"
      slist => callstack_promisers();

  reports:
    "$(Callers)";
}
```

```
R: First promiser
R: Second promiser
```

examples/network_connections.cf

```
bundle agent example_network_connections
{
  vars:
    "_network_connections"
      data => network_connections();
    "_network_connections_str"
      string => format( "%S", _network_connections );
  reports:
    "$(_network_connections[tcp][0][local][address]):$(_network_connections[tcp][0][local][
}
bundle agent __main__
{
  methods: "example_network_connections";
}
```

```
R: 127.0.0.1:17600 is connected to 0.0.0.0:0
```

IN 3.8

FUNCTIONS

- url_get()

examples/url_get.cf

```
bundle agent example_url_get
{
  vars:
    "_response"
      data => url_get( "https://jsonplaceholder.typicode.com/todos/1",
                      '{}');
    # Convert content string to data container
    "_content" data => "$(_response[content])";

    # JSON representation of data container
    "_str_content" string => format( "%S", _content );

  reports:
    "$(_str_content)";
}
```

```
R: {"completed":false,"id":1,"title":"delectus aut autem","userId":1}
```

SPECIAL TOPICS

INTERNAL AGENT UPGRADE MECHANISM

- Place agent packages in
`/var/cfengine/master_software_updates/$(sys.flavo`
- Define `trigger_upgrade` for set of hosts. Ref `update_def.cf`

```
classes:  
  "trigger_upgrade" or => { "host1", "host2", "redhat_5" };
```

DATA TRANSFORMATIONS

RE-PARENT A DATA STRUCTURE

With `mergedata()` it is possible to wrap data containers inside of a new JSON data structure in the current namespace.

For example, here we take an array of objects describing content for `pghba.conf` file and re-parent it under the `pghba` key in a new data-structure.

```
bundle agent main
{
  vars:
    "pghba_directives" data => '['
    {
      "type": "host",
      "database": "replication",
      "user": "all",
      "address": "secondary-replication",
      "method": "trust"
    }
  ]';

  "data" data => mergedata( '{ "pghba": pghba_directives }' );
}
```

```
R: {
  "pghba": [
    {
      "address": "secondary-replication",
      "database": "replication",
      "method": "trust",
      "type": "host",
      "user": "all"
    }
  ]
}
```

}

]

}

MERGING A RESULT FROM `variablesmatching_as_data()`

I see. So, we need to merge the variable values together.

```
bundle agent main
{
  vars:
    "va_active_opsview_scripts_new"
      data => variablesmatching_as_data(".*", "opsview_rules_scripts");

    "va_active_opsview_scripts_new_index"
      slist => sort( getindices(va_active_opsview_scripts_new), lex);

    # Make a new data container to hold the picked and merged content
    "merged" data => '[]';
    # Merge the existing merged data container with each one of the indices
    "merged" data => mergedata( merged, "va_active_opsview_scripts_new[$(va_active_opsview
```

```
R: merged: [
  {
    "name": "check_ntp_time",
    "rule": "scripts\\check_windows_time.bat $ARG1$ $ARG2$ $ARG3$",
    "type": "scripts"
  },
  {
    "name": "check_disk",
    "rule": "scripts\\diskspace_nrpe_nt.exe $ARG1$",
    "type": "scripts"
  },
  {
    "name": "check_shadowcopy_status",
    "rule": "cmd /c echo scripts\\check_cdphp_shadowcopy_status.ps1 $ARG1$; exit($LastExitCode"
    "type": "scripts"
  },
]
```

```
{  
    "name": "check_cory_test",  
    "rule": "scripts\\check_cory_test.bat $ARG1$ $ARG2$ $ARG3$",  
    "type": "scripts"  
},  
{  
    "name": "check_theo_test",  
    "rule": "scripts\\check_theo.exe $ARG1$",  
    "type": "scripts"  
}  
]  
R: Rendered to desired format  
check_ntp_time=scripts\check_windows_time.bat $ARG1$ $ARG2$ $ARG3$  
check_disk=scripts\diskspace_nrpe_nt.exe $ARG1$  
check_shadowcopy_status=cmd /c echo scripts\check_cdphp_shadowcopy_status.ps1 $ARG1$; exit($LASTEXITCODE)  
check_cory_test=scripts\check_cory_test.bat $ARG1$ $ARG2$ $ARG3$  
check_theo_test=scripts\check_theo.exe $ARG1$
```

INHERITING CALLING BUNDLES CLASSES

examples/usebundle_inherit_context.cf

```
bundle agent parent
{
  classes:
    "parent_1" scope => "bundle";

  methods:
    "Inherit context"
      usebundle => child( "First"),
      inherit => "true";

    "No context inheritance"
      usebundle => child( "Second");
}

bundle agent child( id_string )
{
```

R: First see class parent_1 defined

R: Second see class parent_1 NOT defined

BUNDLES CAN RETURN DATA

```
bundle agent parent
{
  methods:
    "Get data returned by bundle"
      usebundle => my_bundle,
      useresult => "my_returned_vars";
}

bundle agent my_bundle
{
  reports:
    "Hello world" bundle_return_value_index => "msg";
    "Something" bundle return value index => "1":
```

Variable name	Variable value
default:parent.my_returned_vars[1]	Something
default:parent.my_returned_vars[msg]	Hello world

TRACKING FILES FOR CHANGE (TRIPWIRE/AIDE)

multiple ways of achieving this with CFEngine, there are many useful functions, `lsdir()`, `findfiles()`, `filestat()`, `file_hash()` all come to mind. However, did you know that CFEngine has some native functionality kind of like AIDE or Tripwire?

You can use the `changes` attribute can be used on a files promise to help with this sort of tracking. The `changes` attribute can record and update file stats and digests. CFEngine Enterprise can even report back diffs of the specific content changes.

Example tracking changes to a directory

```
bundle agent example_action_on_dir_change
{
  files:
    "/tmp/$(this.bundle)/"
      changes => detect_all_change,
      classes => results( "bundle", "_changes_$(this.promiser)");

  reports:
    "Classes prefixed with _changes:$(const.n)$(with)"
      with => join( "$(const.t)$(const.n)", classesmatching( "_changes.*"));
}
bundle agent __main__
```

{

methods:

"example action on dir change":

Illustration of change tracking with a directory

```
exec 2>&1
echo "Resetting Observations"
rm -rf /tmp/example_action_on_dir_change
rm -rf ~/.cfagent/state/cf_changes.lmdb*
rm -rf ~/.cfagent/state/nova_diff.log
rm -rf ~/.cfagent/state/file_changes.log
cf-agent --version

echo "\nFirst observation of directory"
mkdir -p /tmp/example_action_on_dir_change/subdir0
touch /tmp/example_action_on_dir_change/file0
mkdir -p /tmp/example_action_on_dir_change
cf-agent -Kf /tmp/example_action_on_dir_change.cf

echo "\nSubsequent agent run, no changes since last run"
```

Resetting Observations

CFEngine Core 3.17.0

CFEngine Enterprise 3.17.0

First observation of directory

R: Classes prefixed with _changes:

_changes__tmp_example_action_on_dir_change__repaired
_changes__tmp_example_action_on_dir_change__kept
_changes__tmp_example_action_on_dir_change__reached

Subsequent agent run, no changes since last run

R: Classes prefixed with _changes:

_changes__tmp_example_action_on_dir_change__kept
_changes__tmp_example_action_on_dir_change__reached

Subsequent agent run, change stats on existing file in top level

R: Classes prefixed with _changes:

```
_changes__tmp_example_action_on_dir_change__kept  
_changes__tmp_example_action_on_dir_change__reached
```

Subsequent agent run, change content in existing file in top level

R: Classes prefixed with _changes:

```
_changes__tmp_example_action_on_dir_change__kept  
_changes__tmp_example_action_on_dir_change__reached
```

Subsequent agent run, new file in top level

```
  notice: Last modified time for '/tmp/example_action_on_dir_change/' changed 'Tue Mar  9 09:2
```

R: Classes prefixed with _changes:

```
_changes__tmp_example_action_on_dir_change__repaired  
_changes__tmp_example_action_on_dir_change__kept  
_changes__tmp_example_action_on_dir_change__reached
```

Subsequent agent run, new file in existing subdir

R: Classes prefixed with _changes:

```
_changes__tmp_example_action_on_dir_change__kept  
_changes__tmp_example_action_on_dir_change__reached
```

Subsequent agent run, new subdir in existing subdir

```
  notice: Last modified time for '/tmp/example_action_on_dir_change/' changed 'Tue Mar  9 09:2
```

R: Classes prefixed with _changes:

```
_changes__tmp_example_action_on_dir_change__repaired  
_changes__tmp_example_action_on_dir_change__kept  
_changes__tmp_example_action_on_dir_change__reached
```

As you can see from the output above, if the directory changes you can get a repaired result on the files promise. You might ask what was repaired when you are just monitoring for changes, ... the state database. You can choose to not update the state db when

differences are noticed (more typical for AIDE or Tripwire) but that is atypical in my experience with CFEEngine.

You might also notice the example above is only watching the directory itself, it's not doing recursion. Monitoring a tree recursively can get expensive, but it's doable. Here is a modified example illustrating monitoring a directory recursively for changes.

Example tracking changes to all files in a directory recursively

```
bundle agent example_action_on_dir_change_all_files_recursively
{
  files:
    "/tmp/$(this.bundle)/"
      depth_search => recurse( inf ),
      file_select => all,
      changes => detect_all_change,
      classes => results( "bundle", "_changes_$(this.promiser)" );

  reports:
    "Classes prefixed with _changes:$(const.n)$(with)"
      with => join( "$(const.t)$(const.n)", classesmatching( "_changes.*" ));

}
bundle agent main
```

Illustration of change tracking with a directory recursively

```
exec 2>&1
echo "Resetting Observations"
rm -rf /tmp/example_action_on_dir_change_all_files_recursively
rm -rf ~/.cfagent/state/cf_changes.1mdb*
```

```
rm -rf ~/.cfagent/state/nova_diff.log
rm -rf ~/.cfagent/state/file_changes.log
cf-agent --version

echo "\nFirst observation of directory"
mkdir -p /tmp/example_action_on_dir_change_all_files_recursively/subdir0
touch /tmp/example_action_on_dir_change_all_files_recursively/file0
mkdir -p /tmp/example_action_on_dir_change_all_files_recursively
cf-agent -Kf /tmp/example_action_on_dir_change_all_files_recursively.cf

echo "\nSubsequent agent run, no changes since last run"
```

Resetting Observations

CFEngine Core 3.17.0

CFEngine Enterprise 3.17.0

First observation of directory

```
  notice: New file '/tmp/example_action_on_dir_change_recursively/file0' found
  notice: New file '/tmp/example_action_on_dir_change_recursively/subdir0' found
```

R: Classes prefixed with _changes:

```
_changes__tmp_example_action_on_dir_change_recursively_repaired
_changes__tmp_example_action_on_dir_change_recursively_reached
_changes__tmp_example_action_on_dir_change_recursively_subdir0_repaired
_changes__tmp_example_action_on_dir_change_recursively_subdir0_kept
_changes__tmp_example_action_on_dir_change_recursively_subdir0_reached
_changes__tmp_example_action_on_dir_change_recursively_file0_repaired
_changes__tmp_example_action_on_dir_change_recursively_file0_kept
_changes__tmp_example_action_on_dir_change_recursively_file0_reached
```

Subsequent agent run, no changes since last run

R: Classes prefixed with _changes:

```
_changes__tmp_example_action_on_dir_change_recursively_kept
_changes__tmp_example_action_on_dir_change_recursively_reached
_changes__tmp_example_action_on_dir_change_recursively_subdir0_kept
_changes__tmp_example_action_on_dir_change_recursively_subdir0_reached
_changes__tmp_example_action_on_dir_change_recursively_file0_kept
_changes__tmp_example_action_on_dir_change_recursively_file0_reached
```

Subsequent agent run, change stats on existing file in top level

```
notice: Last modified time for '/tmp/example_action_on_dir_change_recursively/file0' changed
R: Classes prefixed with _changes:
_changes_tmp_example_action_on_dir_change_recursively_repaired
_changes_tmp_example_action_on_dir_change_recursively_reached
_changes_tmp_example_action_on_dir_change_recursively_subdir0_kept
_changes_tmp_example_action_on_dir_change_recursively_subdir0_reached
_changes_tmp_example_action_on_dir_change_recursively_file0_repaired
_changes_tmp_example_action_on_dir_change_recursively_file0_kept
_changes_tmp_example_action_on_dir_change_recursively_file0_reached
```

Subsequent agent run, change content in existing file in top level

```
R: Classes prefixed with _changes:
_changes_tmp_example_action_on_dir_change_recursively_repaired
_changes_tmp_example_action_on_dir_change_recursively_reached
_changes_tmp_example_action_on_dir_change_recursively_subdir0_kept
_changes_tmp_example_action_on_dir_change_recursively_subdir0_reached
_changes_tmp_example_action_on_dir_change_recursively_file0_repaired
_changes_tmp_example_action_on_dir_change_recursively_file0_kept
_changes_tmp_example_action_on_dir_change_recursively_file0_reached
```

Subsequent agent run, new file in top level

```
notice: New file '/tmp/example_action_on_dir_change_recursively/file1' found
```

```
R: Classes prefixed with _changes:
_changes_tmp_example_action_on_dir_change_recursively_repaired
_changes_tmp_example_action_on_dir_change_recursively_reached
_changes_tmp_example_action_on_dir_change_recursively_file1_repaired
_changes_tmp_example_action_on_dir_change_recursively_file1_kept
_changes_tmp_example_action_on_dir_change_recursively_file1_reached
_changes_tmp_example_action_on_dir_change_recursively_subdir0_kept
_changes_tmp_example_action_on_dir_change_recursively_subdir0_reached
_changes_tmp_example_action_on_dir_change_recursively_file0_kept
_changes_tmp_example_action_on_dir_change_recursively_file0_reached
```

Subsequent agent run, new file in existing subdir

```
notice: New file '/tmp/example_action_on_dir_change_recursively/subdir0/file2' found
```

```
notice: Last modified time for '/tmp/example_action_on_dir_change_recursively/subdir0' changed
```

```
R: Classes prefixed with _changes:
_changes_tmp_example_action_on_dir_change_recursively_file1_kept
```

```
_changes__tmp_example_action_on_dir_change_recursively_file1_reached  
_changes__tmp_example_action_on_dir_change_recursively_subdir0_repaired  
_changes__tmp_example_action_on_dir_change_recursively_subdir0_kept  
_changes__tmp_example_action_on_dir_change_recursively_subdir0_reached  
_changes__tmp_example_action_on_dir_change_recursively_repaired  
_changes__tmp_example_action_on_dir_change_recursively_reached  
_changes__tmp_example_action_on_dir_change_recursively_subdir0_file2_repaired  
_changes__tmp_example_action_on_dir_change_recursively_subdir0_file2_kept  
_changes__tmp_example_action_on_dir_change_recursively_subdir0_file2_reached  
_changes__tmp_example_action_on_dir_change_recursively_file0_kept  
_changes__tmp_example_action_on_dir_change_recursively_file0_reached
```

Subsequent agent run, new subdir in existing subdir

```
notice: New file '/tmp/example_action_on_dir_change_recursively/subdir1' found
```

R: Classes prefixed with _changes:

```
_changes__tmp_example_action_on_dir_change_recursively_repaired  
_changes__tmp_example_action_on_dir_change_recursively_reached  
_changes__tmp_example_action_on_dir_change_recursively_file1_kept  
_changes__tmp_example_action_on_dir_change_recursively_file1_reached  
_changes__tmp_example_action_on_dir_change_recursively_subdir1_repaired  
_changes__tmp_example_action_on_dir_change_recursively_subdir1_kept  
_changes__tmp_example_action_on_dir_change_recursively_subdir1_reached  
_changes__tmp_example_action_on_dir_change_recursively_subdir0_kept  
_changes__tmp_example_action_on_dir_change_recursively_subdir0_reached  
_changes__tmp_example_action_on_dir_change_recursively_subdir0_file2_kept  
_changes__tmp_example_action_on_dir_change_recursively_subdir0_file2_reached  
_changes__tmp_example_action_on_dir_change_recursively_file0_kept  
_changes__tmp_example_action_on_dir_change_recursively_file0_reached
```

In the examples above I used `$(this.promiser)` so that I would get a class for each file. If you don't need the detail, you could use something static.

Example tracking changes to all files in a directory recursively with fewer classes

```
bundle agent example_action_on_dir_change_all_files_recursively_with_fewer_classes
{
  files:
    "/tmp/$(this.bundle)/"
      depth_search => recurse( inf ),
      file_select => all,
      changes => detect_all_change,
      classes => results( "bundle", "i_see_changes" );

  reports:
    "Classes prefixed with _changes:${const.n}$(with)"
      with => join( "$(const.t)$(const.n)", classesmatching( "i_see_changes.*" ) );
}

bundle agent main
```

Illustration of change tracking with a directory recursively

```
exec 2>&1
echo "Resetting Observations"
rm -rf /tmp/example_action_on_dir_change_all_files_recursively_with_fewer_classes
rm -rf ~/.cfagent/state(cf_changes.lmdb*
rm -rf ~/.cfagent/state/nova_diff.log
rm -rf ~/.cfagent/state/file_changes.log
cf-agent --version

echo "\nFirst observation of directory"
mkdir -p /tmp/example_action_on_dir_change_all_files_recursively_with_fewer_classes/subdir0
touch /tmp/example_action_on_dir_change_all_files_recursively_with_fewer_classes/file0
mkdir -p /tmp/example_action_on_dir_change_all_files_recursively_with_fewer_classes
cf-agent -Kf /tmp/example_action_on_dir_change_all_files_recursively_with_fewer_classes.cf

echo "\nSubsequent agent run, no changes since last run"
```

Resetting Observations

CFEngine Core 3.17.0

CFEngine Enterprise 3.17.0

First observation of directory

```
notice: New file '/tmp/example_action_on_dir_change_all_files_recursively_with_fewer_classes'
notice: New file '/tmp/example_action_on_dir_change_all_files_recursively_with_fewer_classes'
```

R: Classes prefixed with _changes:

i_see_changes_repaired

i_see_changes_kept

i_see_changes_reached

Subsequent agent run, no changes since last run

R: Classes prefixed with _changes:

i_see_changes_kept

i_see_changes_reached

Subsequent agent run, change stats on existing file in top level

```
notice: Last modified time for '/tmp/example_action_on_dir_change_all_files_recursively_with_fewer_classes'
```

R: Classes prefixed with _changes:

i_see_changes_repaired

i_see_changes_kept

i_see_changes_reached

Subsequent agent run, change content in existing file in top level

R: Classes prefixed with _changes:

i_see_changes_repaired

i_see_changes_kept

i_see_changes_reached

Subsequent agent run, new file in top level

```
notice: New file '/tmp/example_action_on_dir_change_all_files_recursively_with_fewer_classes'
```

R: Classes prefixed with _changes:

i_see_changes_repaired

i_see_changes_kept

i_see_changes_reached

Subsequent agent run, new file in existing subdir

```
notice: New file '/tmp/example_action_on_dir_change_all_files_recursively_with_fewer_classes'
notice: Last modified time for '/tmp/example_action_on_dir_change_all_files_recursively_with
R: Classes prefixed with _changes:
i_see_changes_repaired
i_see_changes_kept
i_see_changes_reached

Subsequent agent run, new subdir in existing subdir
  notice: New file '/tmp/example_action_on_dir_change_all_files_recursively_with_fewer_classes'
R: Classes prefixed with _changes:
i_see_changes_repaired
i_see_changes_kept
i_see_changes_reached
```

TIPS

USE THE TOOLS!

USE AN EDITOR WITH SYNTAX HIGHLIGHTING

USE THE DOCS

- Masterfiles Policy Framework (MPF)
- Function Reference

SYNTAX CHECKING

Full Syntax Check

```
cf-promises --eval-functions=yes --full-check \
-f ./examples/00-01-hello_world.cf
```

- Full check requires body common control (or bundle agent main). Typically this is only used when you run cf-promises against promises.cf, update.cf, or standalone_self_upgrade.cf
- **NOTE: This is context sensitive/aware**

Partial Syntax Check

```
cf-promises -f ./examples/00-01-hello_world.cf
```

Build into your workflow!

- Editors
- vcs hooks
- build systems

noshell VS useshell FOR commands TYPE PROMISES, execresult(), AND returnszero()

- useshell allows you to use pipelines

```
bundle agent main
{
  vars:
    "result_with_shell"
      string => execresult( "/bin/echo 'Hello$(const.n) World' | grep Hello", useshell);

  reports:
    "$(result_with_shell)";
}
```

R: Hello

- `useshell` allows you to redirect output

```
bundle agent main
{
  classes:
    "successfully_executed"
      expression => returnszero( "/bin/echo 'Hello$(const.n) World' | grep -i world > $(t
  reports:
    successfully_executed::
      "Successfully Executed";
      "Grep found: "
        printfile => cat( "$(this.promise_filename).out" );
}
}
```

```
R: Successfully Executed
R: Grep found:
R: World
```

- `useshell` allows you to use unqualified commands

```
bundle agent main
{
  vars:
    # Note that echo is not fully qualified. That's because it picked it up
    # from the shells PATH
    "result"
      string => execresult( "echo 'Hello World'", useshell);
  reports:
    "Result: $(result)";
}
```

R: Result: Hello World

DEBUG REPORTS

Use standardized DEBUG reports for policy development and troubleshooting.

```
bundle agent main
{
  reports:
    DEBUG|DEBUG_this_bundle_name:::
      "DEBUG $(this.bundle): ....";
    "DEBUG|DEBUG_$(this.bundle)":::
      "DEBUG $(this.bundle): ....";
}
```

PROMISE COMMENTS

Use promise comments to document **WHY** the promise is important.

```
bundle agent main
{
  services:
    "firewalld"
      policy => "start",
      comment => "If this service isn't running, then we have unnecessary
                  exposure and increase our risk of a security breach.";
}
```

j q

```
echo '{\n  "data": [\n    {\n      "firstseen": "1578745699",\n      "hostname": "host001.example.com",\n      "id": "SHA=e01f65d069b9035c280ea0bdba6cf6e47863ac074a170addbad26e98cc89925c",\n      "ip": "192.0.2.2",\n      "lastreport": "1582643957"\n    },\n    {\n      "firstseen": "1578745692",\n      "hostname": "hub.example.com",\n      "id": "SHA=70138d580b9fd292ff856746df2fe7f9ded29db9ffca0c4d83acb97cde4d42",\n      "ip": "192.0.2.1",\n      "lastreport": "1582643974"\n    }\n  ]\n}
```

```
{\n  "data": [\n    {\n      "firstseen": "1578745699",\n      "hostname": "host001.example.com",\n      "id": "SHA=e01f65d069b9035c280ea0bdba6cf6e47863ac074a170addbad26e98cc89925c",\n      "ip": "192.0.2.1",\n      "lastreport": "1582643957"\n    },\n    {\n      "firstseen": "1578745692",\n      "hostname": "hub.example.com",\n      "id": "SHA=70138d580b9fd292ff856746df2fe7f9ded29db9ffca0c4d83acb97cde4d42",\n      "ip": "104.236.18.209",\n      "lastreport": "1582643974"\n    }\n  ]\n}
```

Extract a list of IPs from HOST API response

```
echo $INPUT | jq '.data | map(.ip) | join(",")'
```

```
192.0.2.2,192.0.2.1
```

cf-runagent

Run policy on all hosts reporting not_rh_satellite_registered

```
cf-runagent --background=3 --remote-bundles satellite_registration \
-H $(curl -s -k --user $USER:$PASSWORD \
https://$HUB/api/host?count=2&context-includes=not_rh_satellite_registered | \
jq '.data | map(.ip) | join(",")' | tr -d ''')
```

ADDITIONAL RESOURCES

CFEngine Build

An index of CFEngine related content. Share your content and consume others!

Learning CFEngine

Widely considered best book to get a good grounding in CFEngine.

CFEngine Tutorial

Training material published by Aleksey Tsalolikhin from Vertical Sysadmin, one of our partners.

VSA Training Material

Self paced in depth tutorial based on Vertical Sysadmin training coursework

Example Policy Layout

An example policy layout

CFEngine Spacemacs Layer

The best editor is neither Emacs nor Vim, it's Emacs and Vim!

cf-locate

Find and optionally display body and bundle definitions within a policy set

Policy Style Guide

cf-keycrypt

Tool to encrypt data with CFEngine public keys (in core as of 3.16.0)

- Allows to encrypt data for individual hosts using the public key
- Can be used with non host keys for "group" encryption

cf-profile

Displays execution time summary for cf-agent run to find time consuming policies

vim cf3

CFEngine 3 vim plugin with Syntax highlighting

reindent.pl

Re-indent CFEngine policy using this script that leverages the excellent cfengine3 mode in Emacs

Sublime Text 3 CFEngine Beautifier

Automatically reformat CFEngine policy in Sublime Text

Sublime Text 3 Syntax Highlighter & Snippets

cfe-rsplaytime

Compute splaytime for a given host

cfe-profiler

Measures bundle execution time helping to uncover the most time consuming bundles

Editor support for CFEngine

A list of editors with references for making working with cfengine syntax easier

CFEngine in a Day

Old, but still good 4 part video series ~ 5 hours of Mark Burgess (original author and founder) giving a one day training at SurfSara

CFEngine Tutorial

Training material published by Aleksey Tsalolikhin from Vertical Sysadmin, one of our partners.

General FAQs

Frequently asked questions

Hub Admin FAQ

Frequently asked questions about CFEngine Enterprise Hub

WRAPPING UP

Please take a few moments to fill out this survey about your experience: <https://www.surveymonkey.com/r/CFEngine-Training>

APPENDIX

GIT PRIMER

GIT

Git is the most popular modern version control management tool. Github, Bitbucket, and GitLab all provide great hosted and on prem repository management solutions.

Using a git management system is reccomended for implementing access controls and improved collaboration with regard to policy and systems management.

GETTING STARTED

Log into the policy server

```
[user@workstation] $ vagrant ssh hub  
[vagrant@hub] $ sudo -i
```

Configure git author

```
[root@hub masterfiles] # git config --global user.name "Mr. Slate"  
[root@hub masterfiles] # git config --global user.email "bossman@slateco.com"  
[root@hub masterfiles] # git config --global push.default simple
```

CLONE BUILTIN REPOSITORY

```
[root@hub masterfiles] # git clone /opt/cfengine/masterfiles.git /vagrant/masterfiles  
Cloning into '/vagrant/masterfiles'...
```

ADD A FILE TO THE REPOSITORY

```
[root@hub masterfiles] # cd /vagrant/masterfiles
[root@hub masterfiles] # ls
cfe_internal Changelog controls def.cf lessons lib libraries promises.cf services ske
[root@hub masterfiles] # echo hi > file
[root@hub masterfiles] # git status
# On branch master
# Untracked files:
#   (use "git add <file>..." to include in what will be committed)
#
#       file
nothing added to commit but untracked files present (use "git add" to track)
```

STAGE AND COMMIT THE CHANGES

```
[root@hub masterfiles] # git add file
[root@hub masterfiles] # git status
# On branch master
# Changes to be committed:
#   (use "git reset HEAD <file>..." to unstage)
#
#       new file:   file
#
# git commit -m "Testing git workflow"
[master c886caf] Testing git workflow
 0 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file
```

PUBLISH THE CHANGE

```
[root@hub masterfiles] # git status
# On branch master
# Your branch is ahead of 'origin/master' by 1 commit.
#
nothing to commit (working directory clean)
[root@hub masterfiles] # git push
Counting objects: 4, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 280 bytes, done.
Total 3 (delta 1), reused 0 (delta 0)
Unpacking objects: 100% (3/3), done.
To /opt/cfengine/masterfiles.git
  ee31801..94b8151  master -> master
# git status
# On branch master
nothing to commit (working directory clean)
```

MODIFY A FILE

```
[root@hub masterfiles] # echo HI >> file
[root@hub masterfiles] # git status
# On branch master
# Your branch is ahead of 'origin/master' by 1 commit.
#
# Changed but not updated:
#   (use "git add <file>..." to update what will be committed)
#   (use "git checkout -- <file>..." to discard changes in working directory)
#
#       modified:   file
#
no changes added to commit (use "git add" and/or "git commit -a")
```

DIFF TO VALIDATE DETAIL OF CONTENT CHANGE

```
[root@hub masterfiles] # git diff  
diff --git a/file b/file  
index 45b983b..313352b 100644  
--- a/file  
+++ b/file  
@@ -1 +1,2 @@  
 hi  
+HI
```

STAGE AND COMMIT THE CHANGES

```
[root@hub masterfiles] # git add file
[root@hub masterfiles] # git status
# On branch master
# Your branch is ahead of 'origin/master' by 1 commit.
#
# Changes to be committed:
#   (use "git reset HEAD <file>..." to unstage)
#
#       modified:   file
#
# git commit -m "Modified file"
[master fd94885] Modified file
  1 files changed, 1 insertions(+), 0 deletions(-)
# git status
# On branch master
# Your branch is ahead of 'origin/master' by 1 commits.
#
nothing to commit (working directory clean)
```

PUBLISH THE CHANGE

```
[root@hub masterfiles] # git push
Counting objects: 7, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 493 bytes, done.
Total 5 (delta 2), reused 0 (delta 0)
Unpacking objects: 100% (5/5), done.
To /opt/cfengine/masterfiles.git
  c886caf..fd94885  master -> master
```

REMOVE A FILE

```
[root@hub masterfiles] # git rm file
# rm 'file'
[root@hub masterfiles] # git status
# On branch master
# Changes to be committed:
#   (use "git reset HEAD <file>..." to unstage)
#
#       deleted:    file
#
# git commit -m "Remove file"
[master 4c9d46d] Remove file
 1 files changed, 0 insertions(+), 3 deletions(-)
 delete mode 100644 file
```

PUBLISH THE CHANGE

```
[root@hub masterfiles] # git push
Counting objects: 3, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 230 bytes, done.
Total 2 (delta 1), reused 0 (delta 0)
Unpacking objects: 100% (2/2), done.
To /opt/cfengine/masterfiles.git
  92660a9..4c9d46d  master -> master
```

PLACE MASTERFILES INTO THE REPOSITORY

```
[root@hub masterfiles] # rsync -avz /var/cfengine/masterfiles/ .
[root@hub masterfiles] # git add -A
[root@hub masterfiles] # git commit -m "Seed repository with masterfiles"
[root@hub masterfiles] # git push
```

CONFIGURE MASTERFILES FOR GIT INTEGRATION

```
[root@hub masterfiles]# echo '{ "classes": { "cfengine_internal_masterfiles_update": [ "policy" ] } }' > def.json
[root@hub masterfiles]# git add def.json
[root@hub masterfiles]# git commit -m "Enable automatic masterfiles update from repository"
[master c206654] Enable automatic masterfiles update from repository
 1 file changed, 1 insertion(+)
 create mode 100644 def.json
```

```
[root@hub masterfiles]# git push
warning: push.default is unset; its implicit value is changing in
Git 2.0 from 'matching' to 'simple'. To squelch this message
and maintain the current behavior after the default changes, use:
```

```
git config --global push.default matching
```

To squelch this message and adopt the new behavior now, use:

```
git config --global push.default simple
```

See 'git help config' and search for 'push.default' for further information.
(the 'simple' mode was introduced in Git 1.7.11. Use the similar mode
'current' instead of 'simple' if you sometimes use older versions of Git)

```
Counting objects: 4, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 370 bytes | 0 bytes/s, done.
Total 3 (delta 1), reused 0 (delta 0)
To /opt/cfengine/masterfiles.git
 a181449..c206654  master -> master
```

ACTIVATE CURRENT UPDATE POLICY WITH ENABLEMENT CLASS

```
[root@hub masterfiles]# cf-agent --no-lock \  
--verbose \  
--define cfengine_internal_masterfiles_update \  
--file update.cf
```

VERIFY PRESENCE OF DEF.JSON

```
[root@hub masterfiles]# cat /var(cfengine/masterfiles/def.json
```

REVIEW

Now when the agent runs on hosts that define `policy_server` policy will be activated that keeps `/var/cfengine/masterfiles` up to date with whats in the repository as configured in mission portal (which by default is `/opt/cfengine/masterfiles.git`).

This means new policy will be distributed as you push it into the repository. Continuous delivery FTW!

GIT COMMAND REFERENCE

git status

git pull --rebase

git diff

git grep

git add

git log

git diff --cached git checkout -b new_feature

git commit

git push origin <branch>

POP QUIZ

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- Who was Mr. Slate?

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- Who was Mr. Slate?
- How do you get an overview of the changes to your clone?
 - How can you easily search a git repository?

