

CFENGINE IN A DAY

BEFORE WE START

SCHEDULE

Table 1: A rough schedule (this varies greatly).

Time	Activity
09:00 AM - 10:30 AM	Class
10:30 AM - 11:00 AM	Morning break
11:00 AM - 12:30 PM	Class
12:30 PM - 01:30 PM	Lunch break
01:30 PM - 03:00 PM	Class
03:00 PM - 03:30 PM	Afternoon break
03:30 PM - 05:00 PM	Class

USE THE SOURCE

github.com/nickanderson/cfengine-training

HI, I'M NICK

- Wife, 2 kids and a dog
- Sysadmin/Infrastructure Engineer/Doer of things
- CFEengineering for >10 years
- Find me online
 - nick@cmdln.org | nick.anderson@northern.tech
 - [@cmdln_](https://twitter.com/cmdln_)
 - cmdln.org
 - [linkedin.com/in/hithisisnick](https://www.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 3.15.0)
- 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?

- Modern
- 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)
- CFEEngine 3.15 (2019)

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

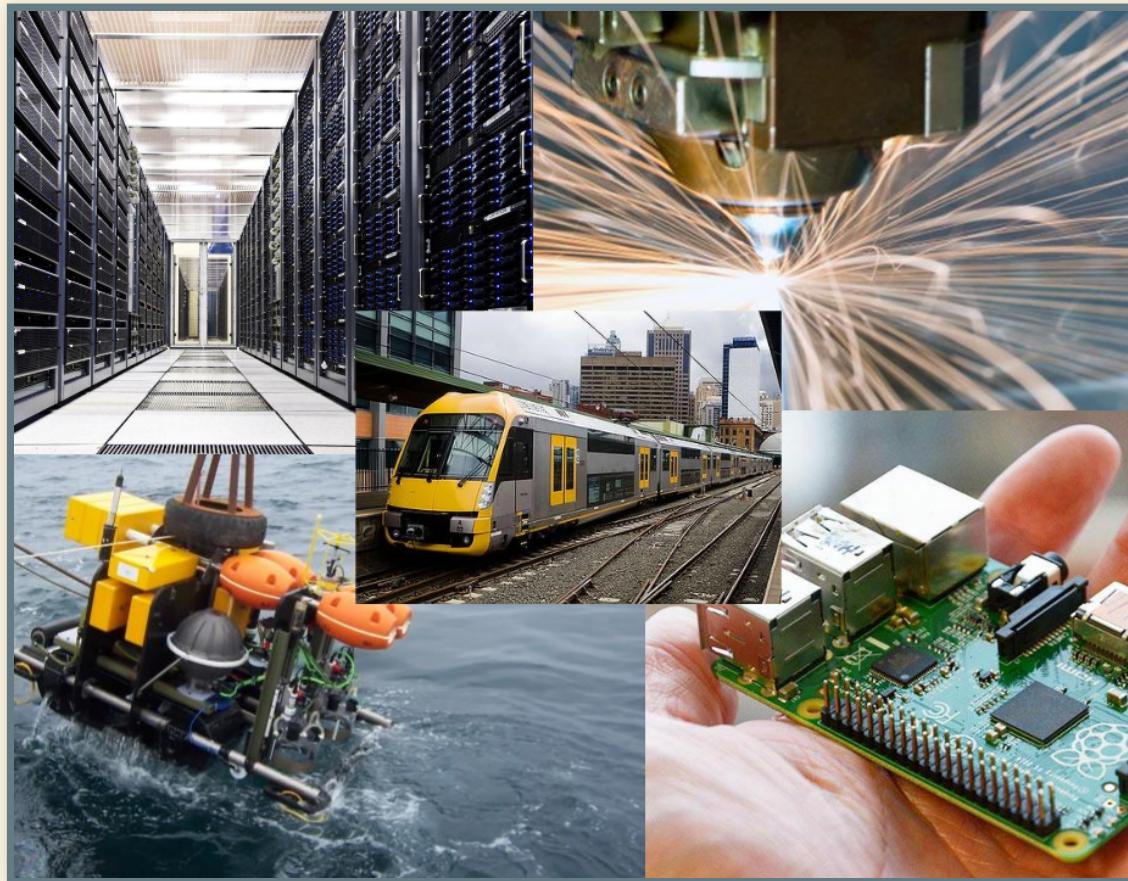
SECURE

A good track record.

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

PORTABLE

Known to run on many platforms, and interesting places.



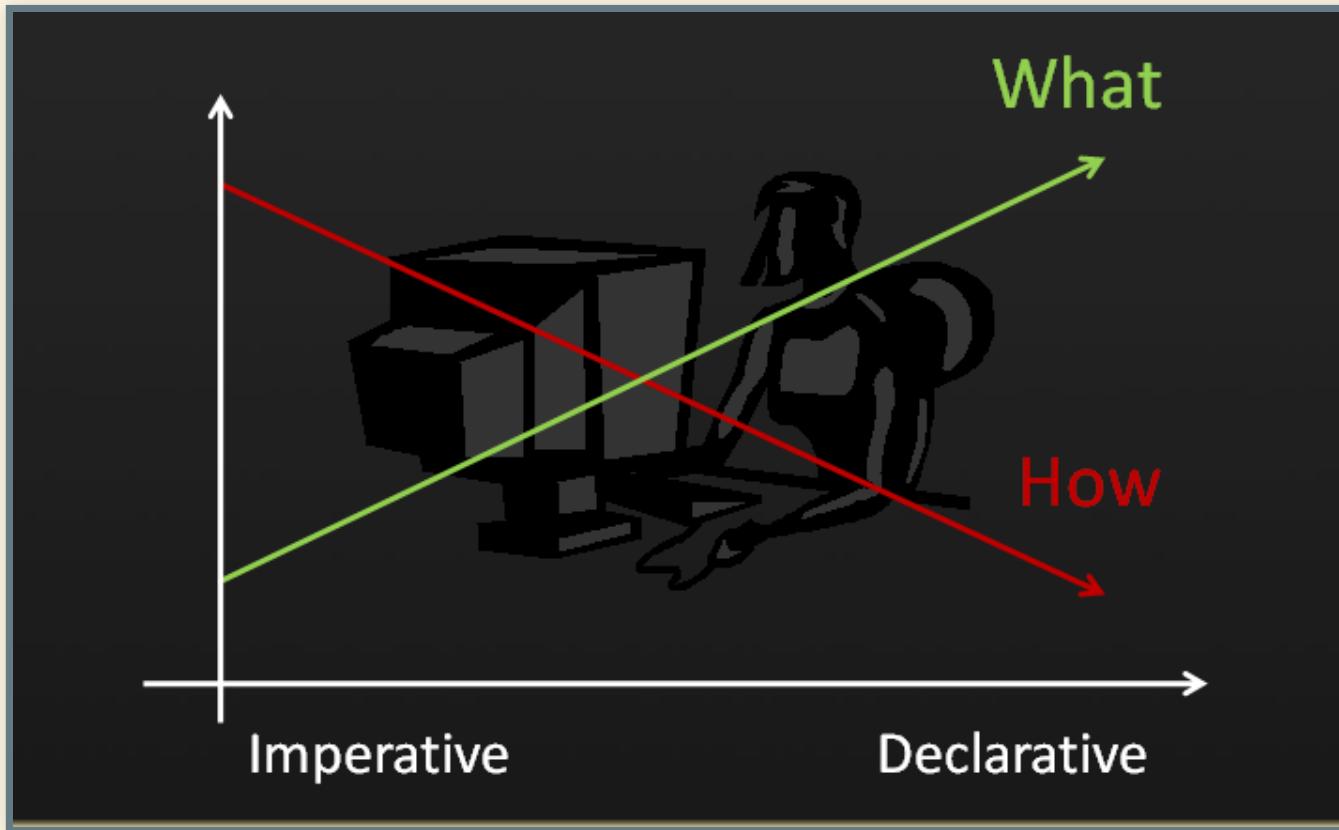
RESILIENT & AUTONOMOUS



- 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 (with Enterprise)

EDITIONS

COMMUNITY (CORE)

- Github
- Tarballs
- Binary Packages
- Linux Package Repositories

Quick Install Community

```
wget -O- http://cfengine.package-repos.s3.amazonaws.com/\  
quickinstall/quick-install-cfengine-community.sh | sudo bash
```

ENTERPRISE FEATURES

- Dashboard
- Alerts and Triggered Actions
- Inventory Reporting
- Change Reporting
- Compliance Reporting
- File Integrity Monitoring
- Measurements
- REST APIs
- SQL Reporting
- Single Pane of Glass Reporting

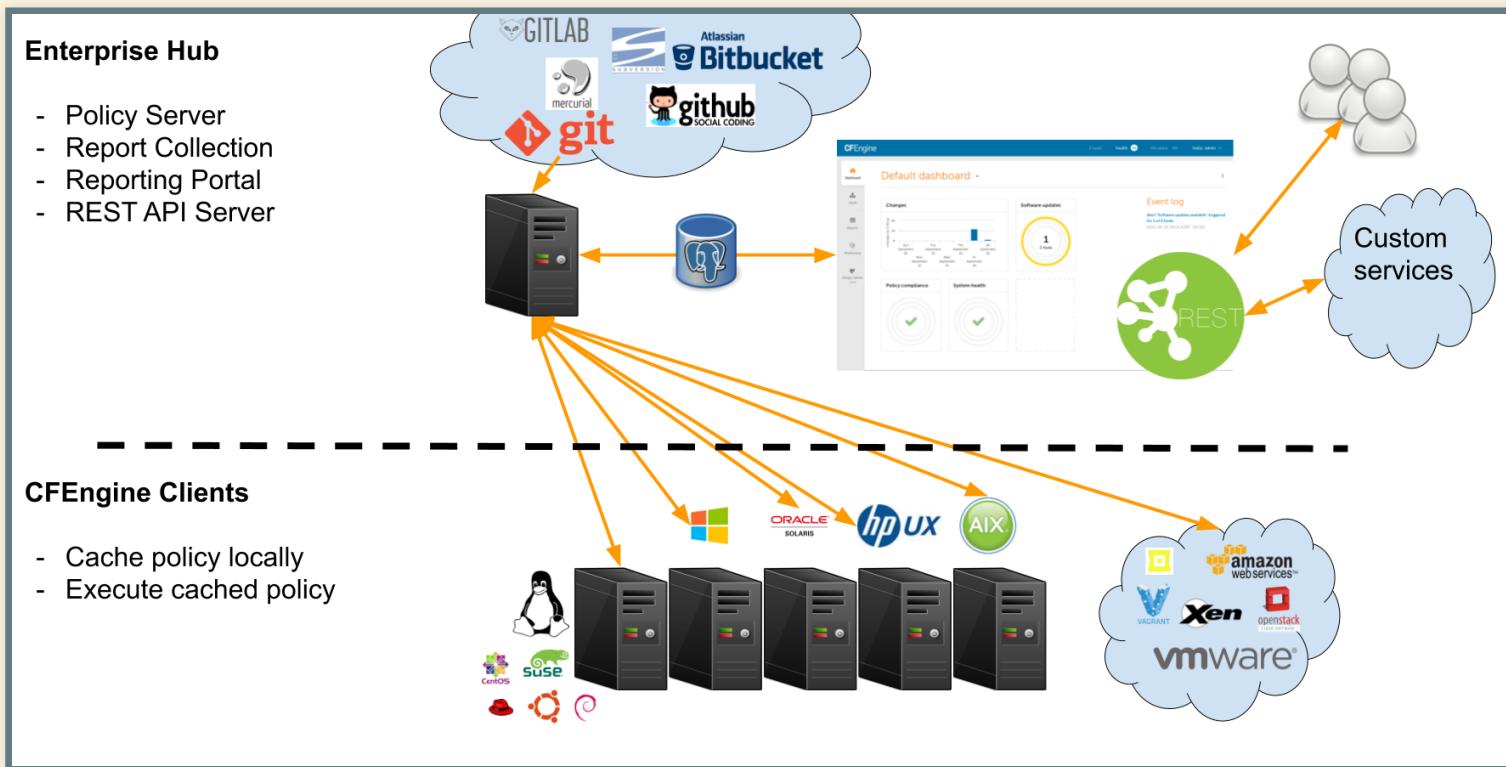
ENTERPRISE

- Vagrant Environment
- Binary Packages

Quick Install Enterprise

```
wget http://cfengine.package-repos.s3.amazonaws.com/quickinstall/\\
quick-install-cfengine-enterprise.sh
sudo bash ./quick-install-cfengine-enterprise.sh <hub|agent>
```

CLIENT/SERVER ARCHITECTURE

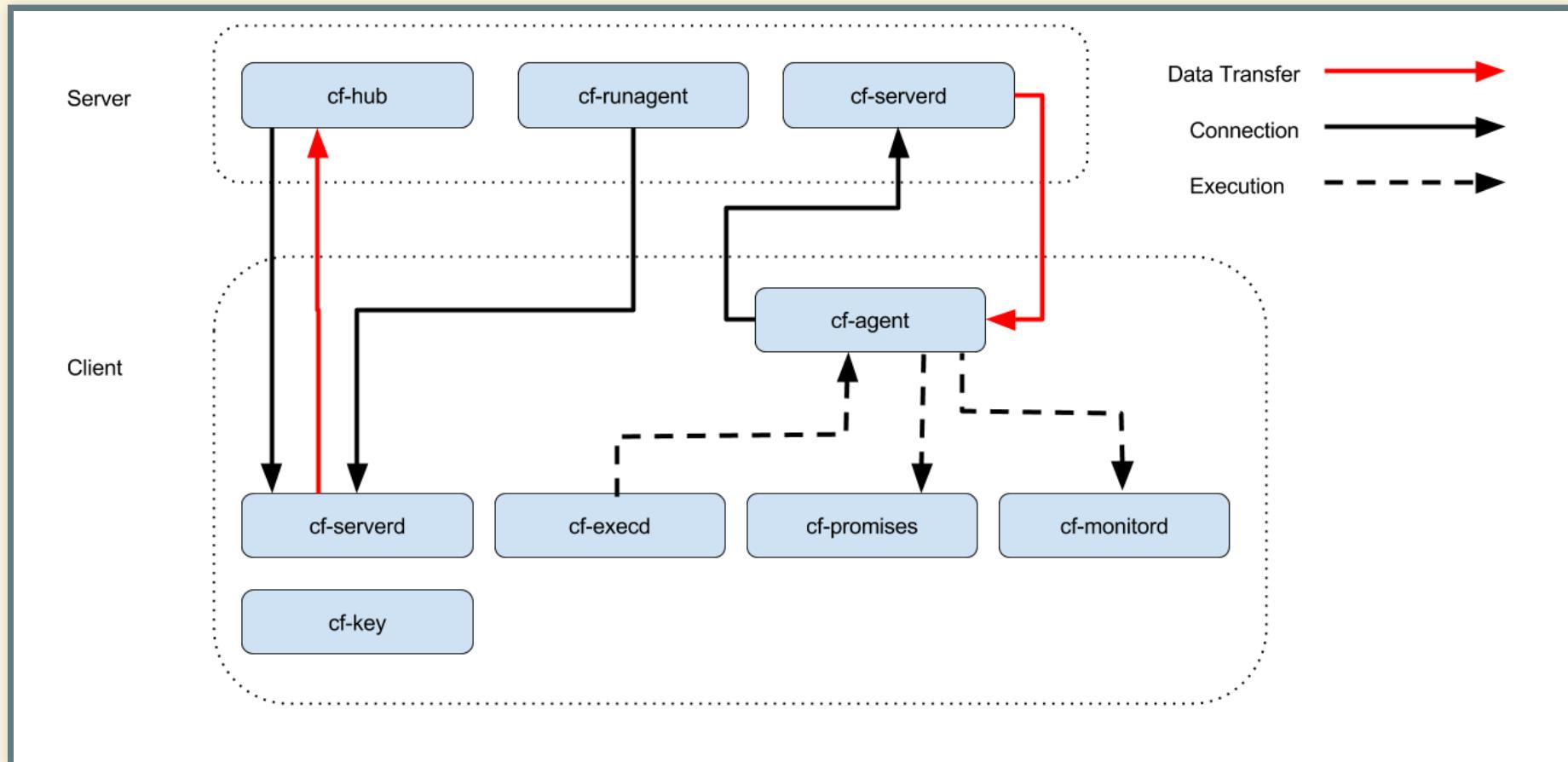


CLIENT SERVER COMMUNICATIONS

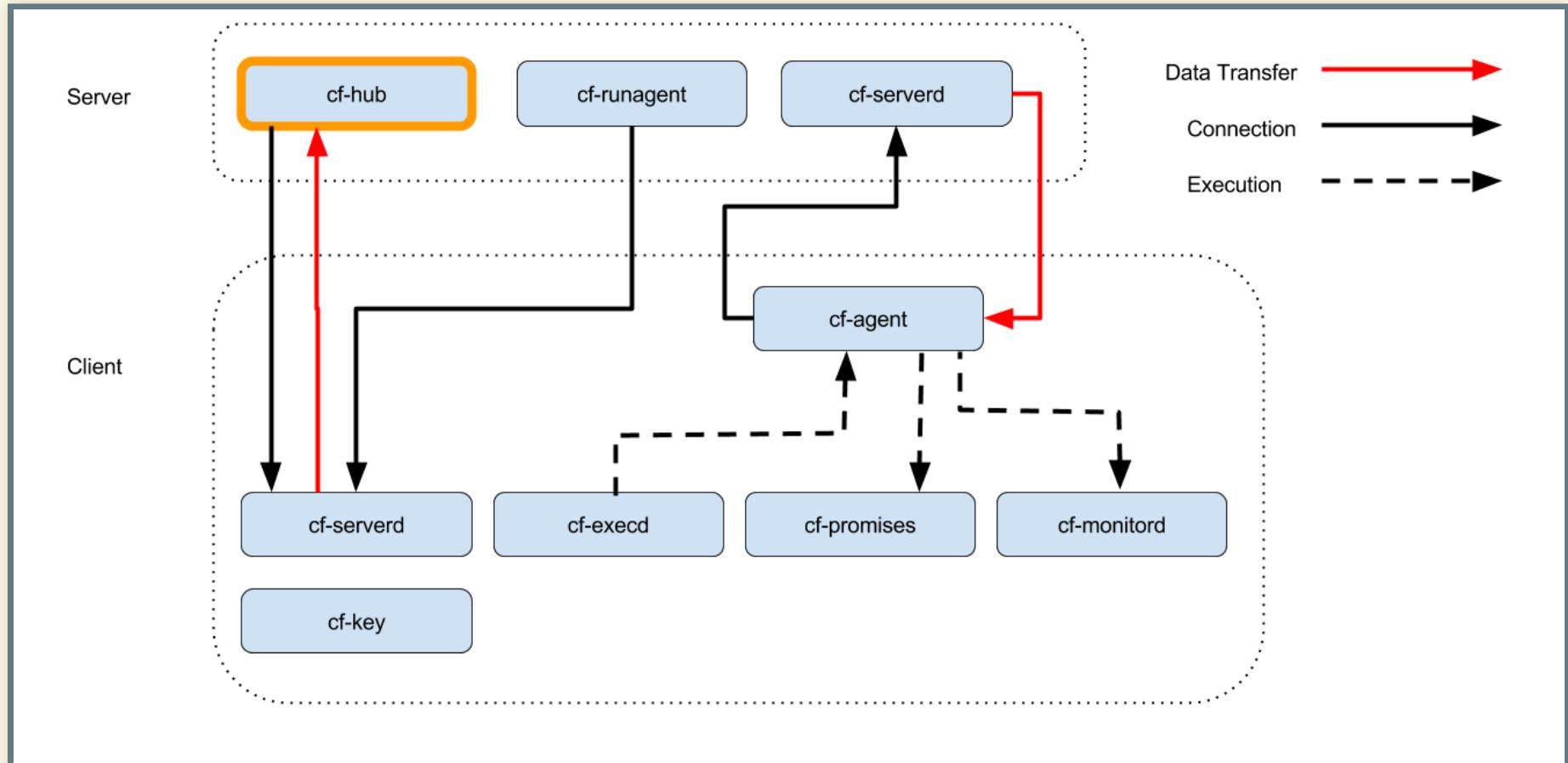
- Utilizes port 5308
- Encrypted (TLS)
- Public key authentication (**key exchange required**)
- Agents download policy from hub
- Hub downloads reports from remote agents

AGENT COMPONENTS

AGENT COMPONENTS

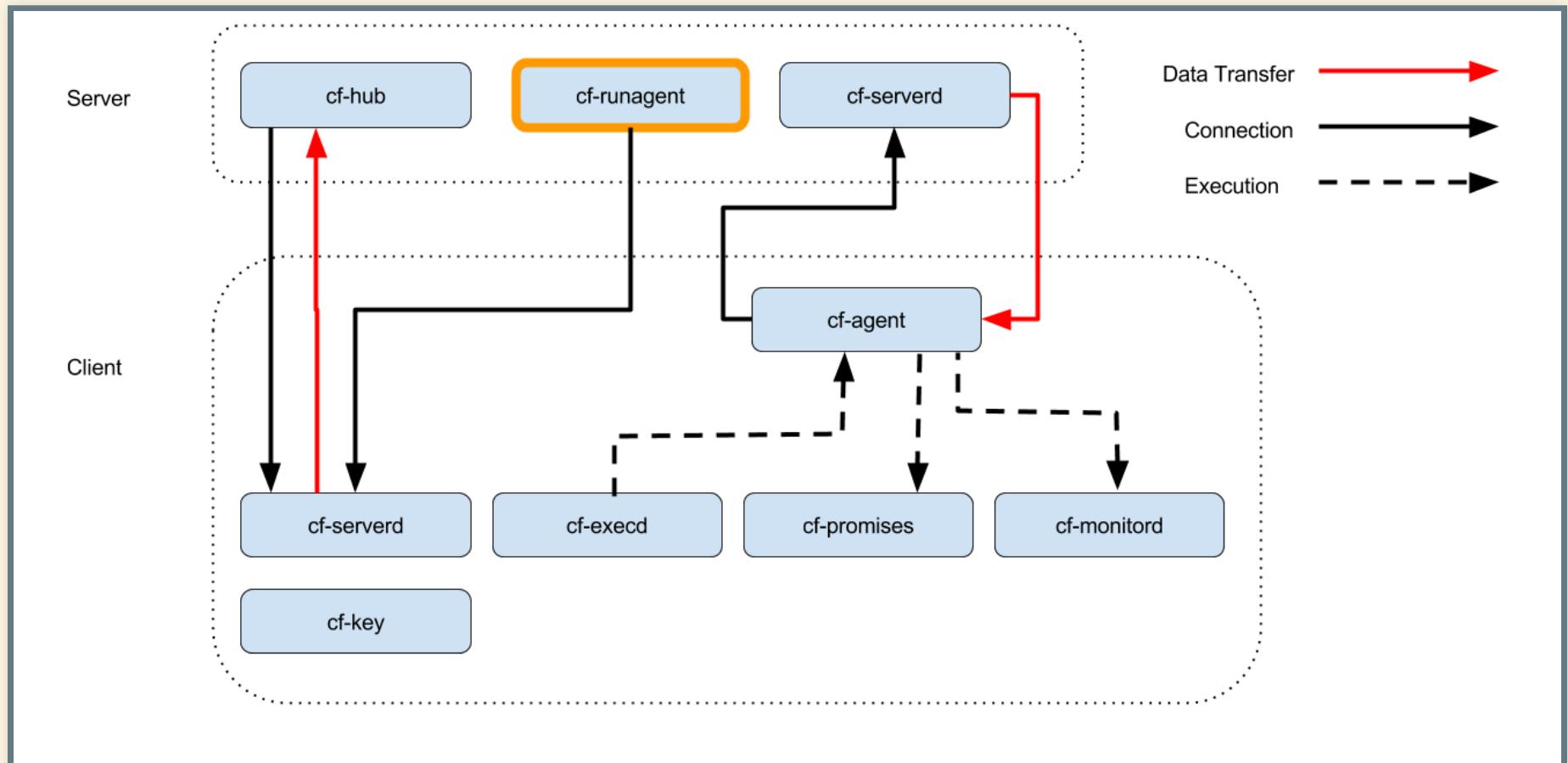


cf-hub



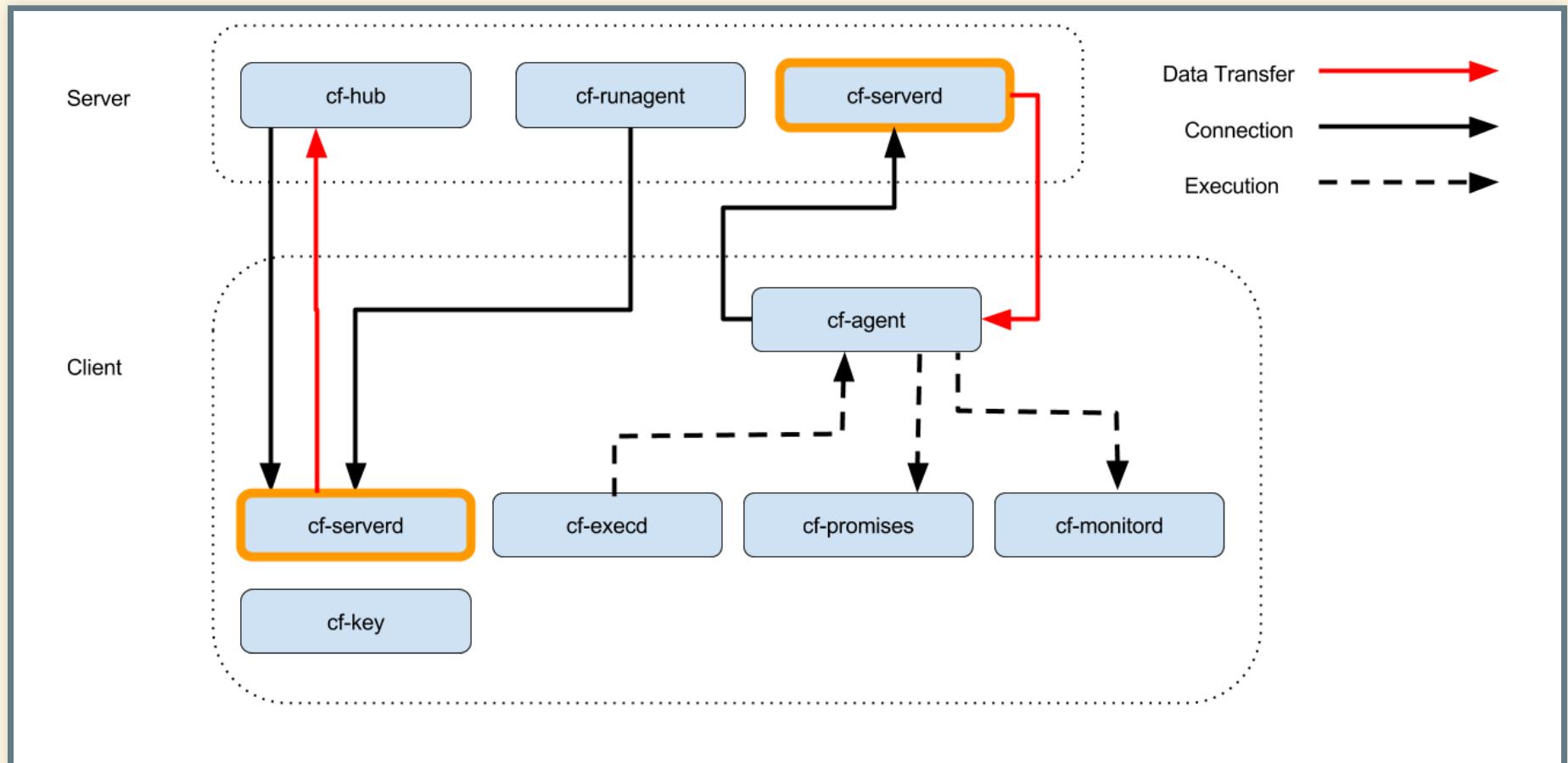
- Collects reports from remote agents
- Obeys "common control" and "hub control" bodies

cf-runagent



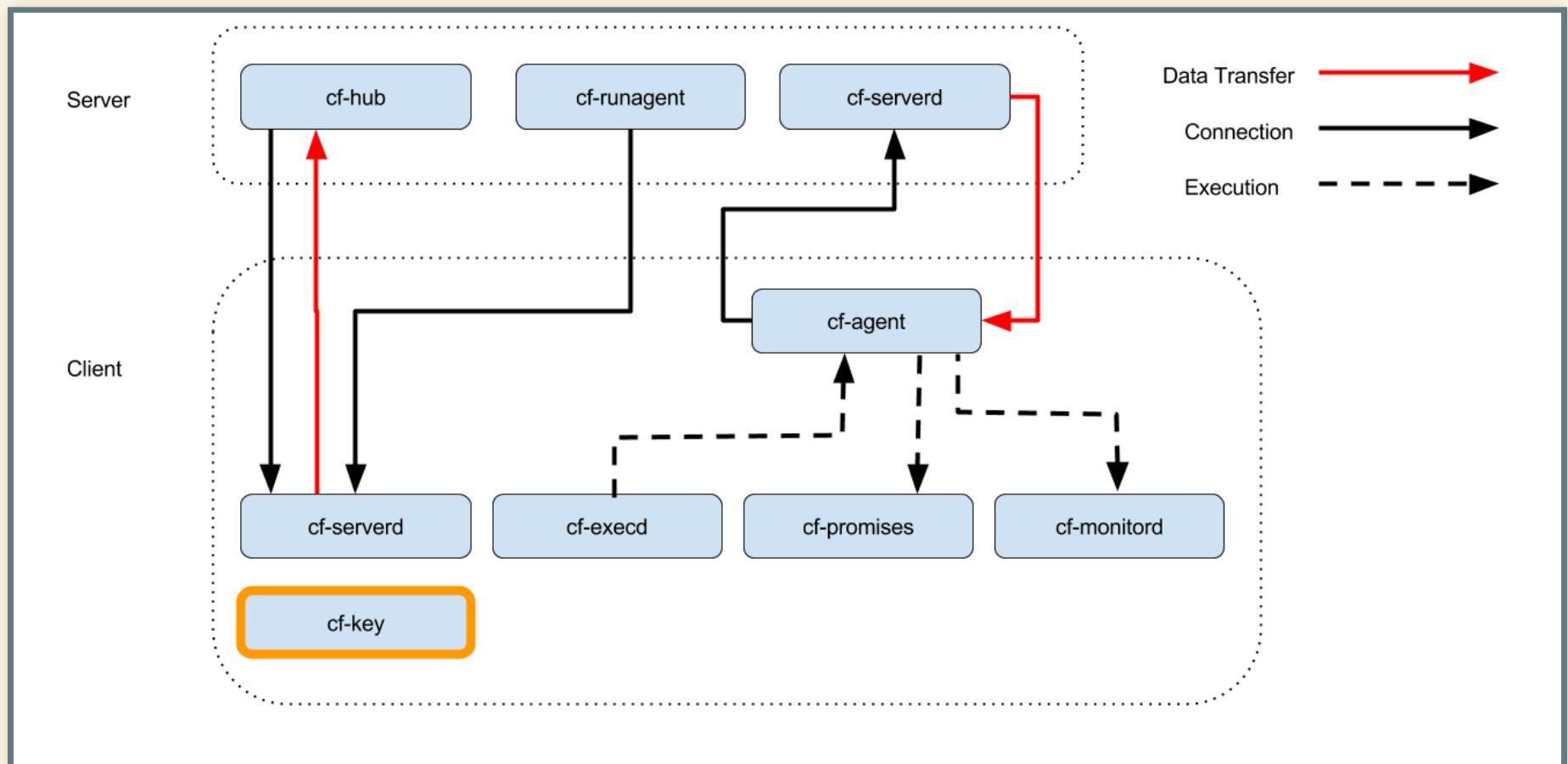
- Requests invocation of cf-agent on remote hosts
- Cannot invoke arbitrary commands
- Define classes to modify behavior (- - define)
- Specify bundlesequence (- - remote - bundles)

cf-serverd



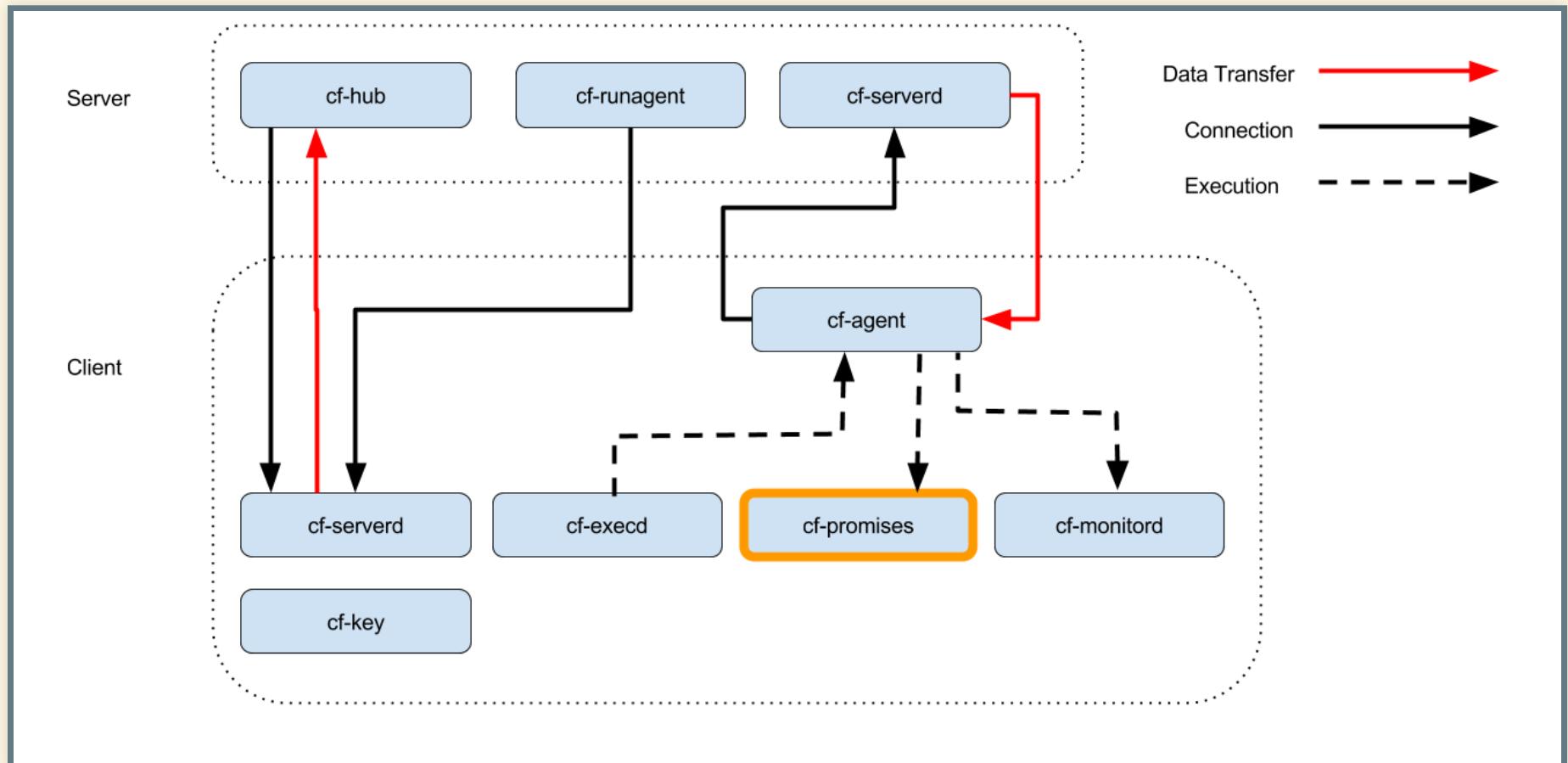
- Listens for connections on **TCP/5308**
- Enforces access control and authentication
- Serves files
- Serves cf-runagent requests
- Serves reports to cf-hub
- Runs on both server and clients
- Evaluates "common" and "server" bundles
- Obeys body "server control"

cf-key



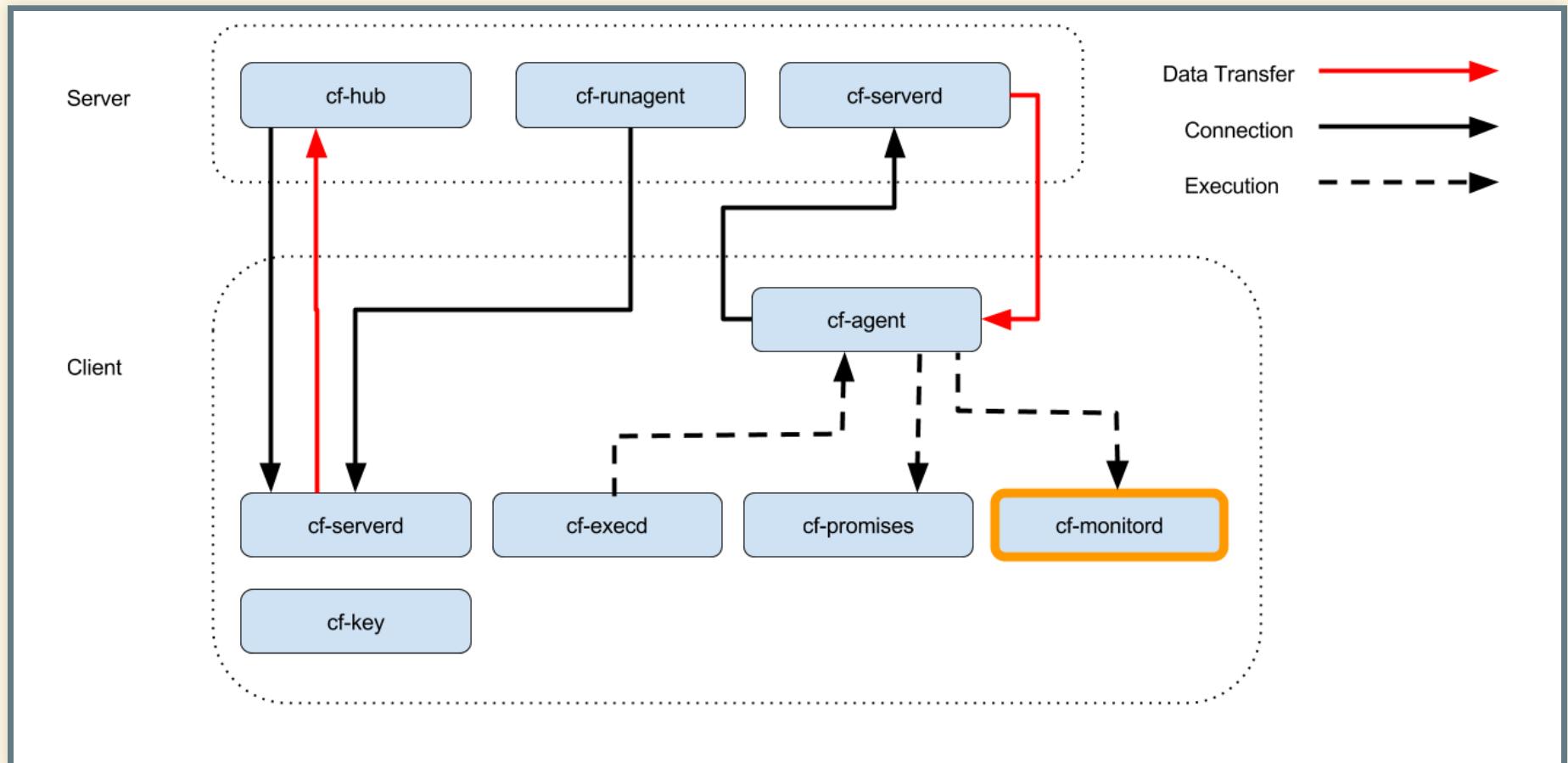
- Show recent connections
- Manage trust of public keys
- Generates key pairs
- Installs Enterprise License

cf-promises



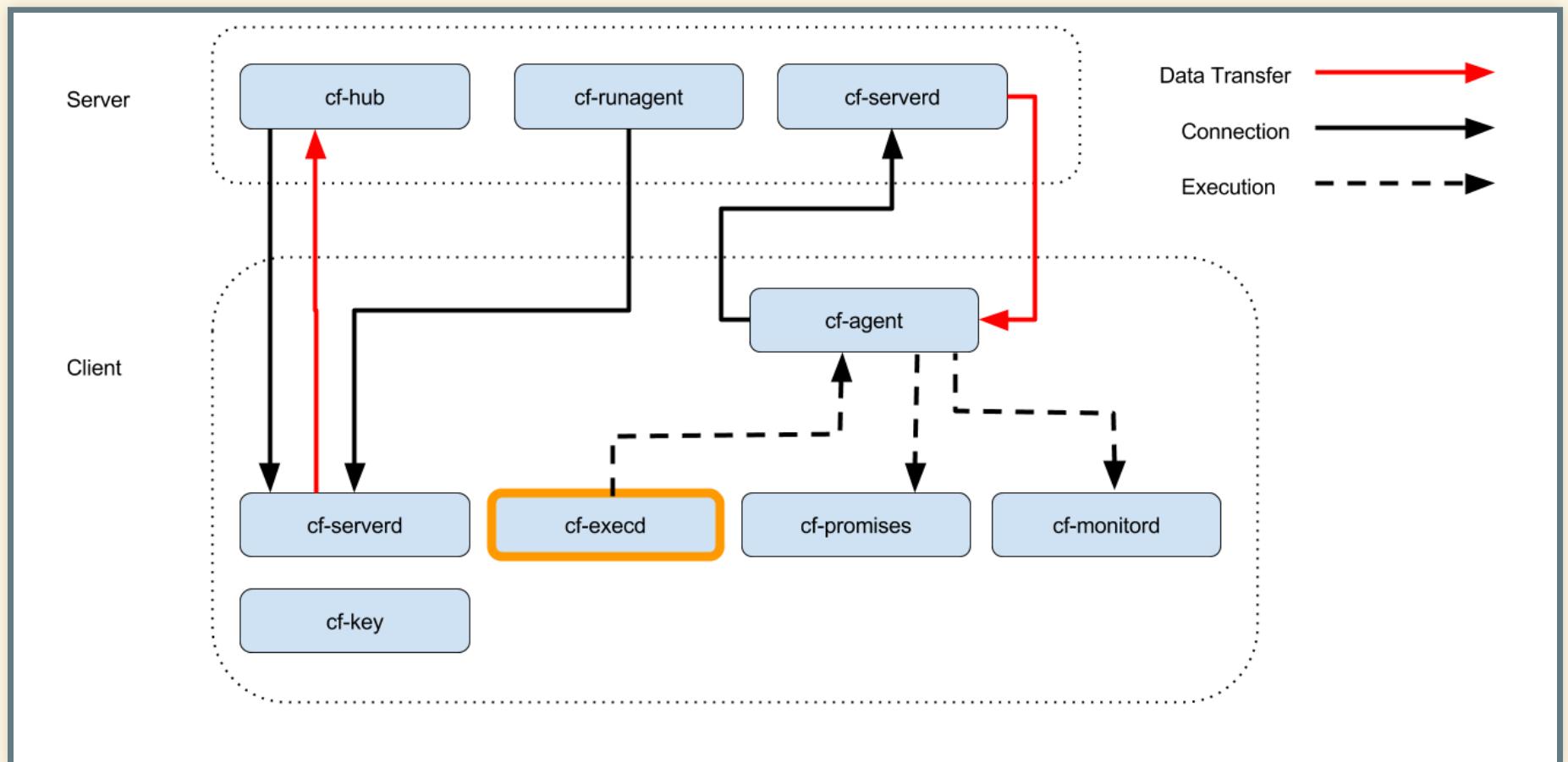
- Checks Syntax
- Dump Syntax (cf-promises --syntax-description)
- Tag Policy Releases (cf-promises --tag-release)
- Show first order Variables and Classes (cf-promises --show-vars --show-classes)

cf-monitord



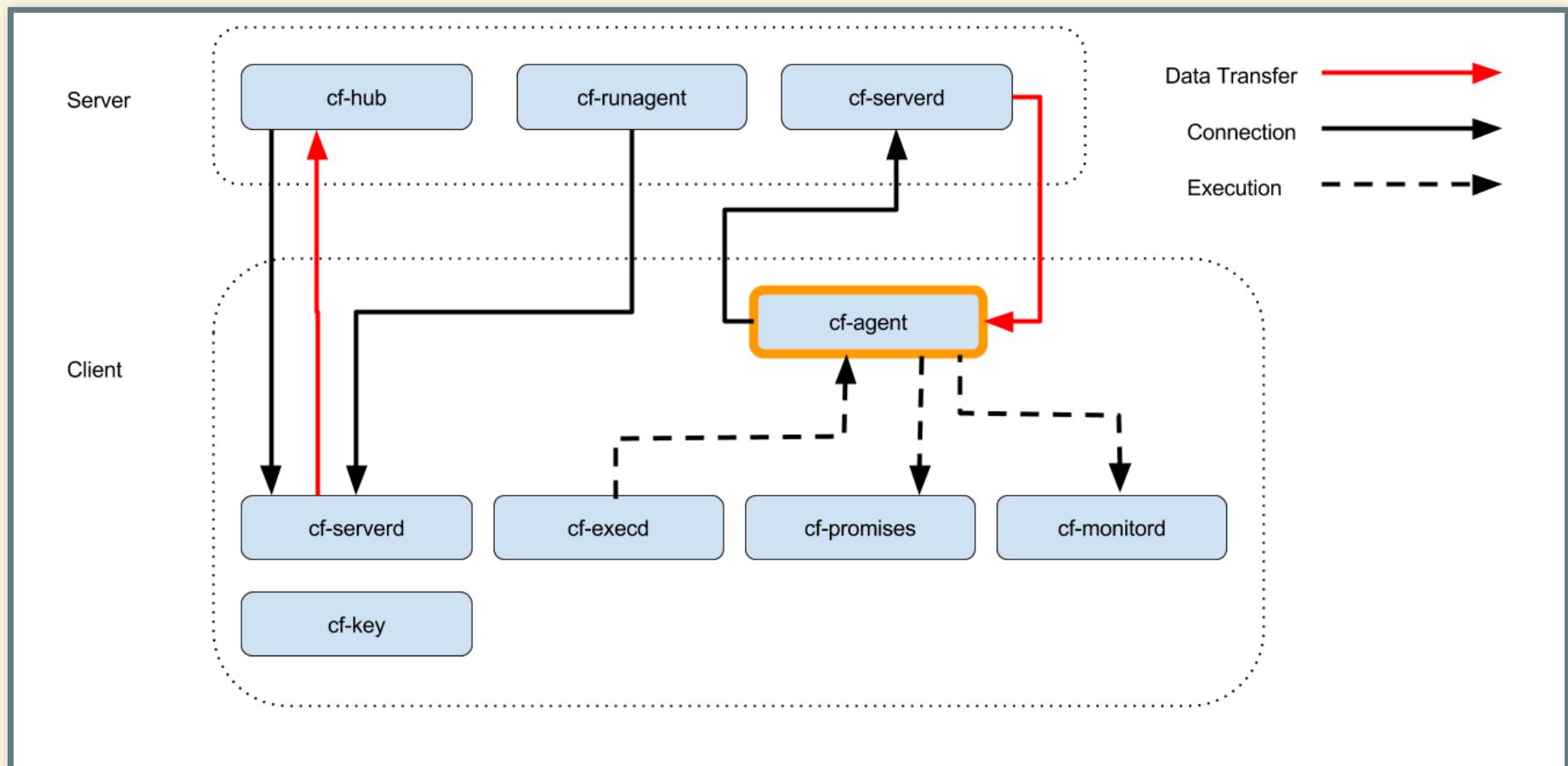
- Measures things
- Defines mon . * variables
- Defines classes based on anomaly detection
- Evaluates "common" and "monitor" bundles
- Obeys "common control" and "monitor control" bodies

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

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?
 - 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 meaning of life, the universe and everything?

MPF & STDLIB

The default "Masterfiles"

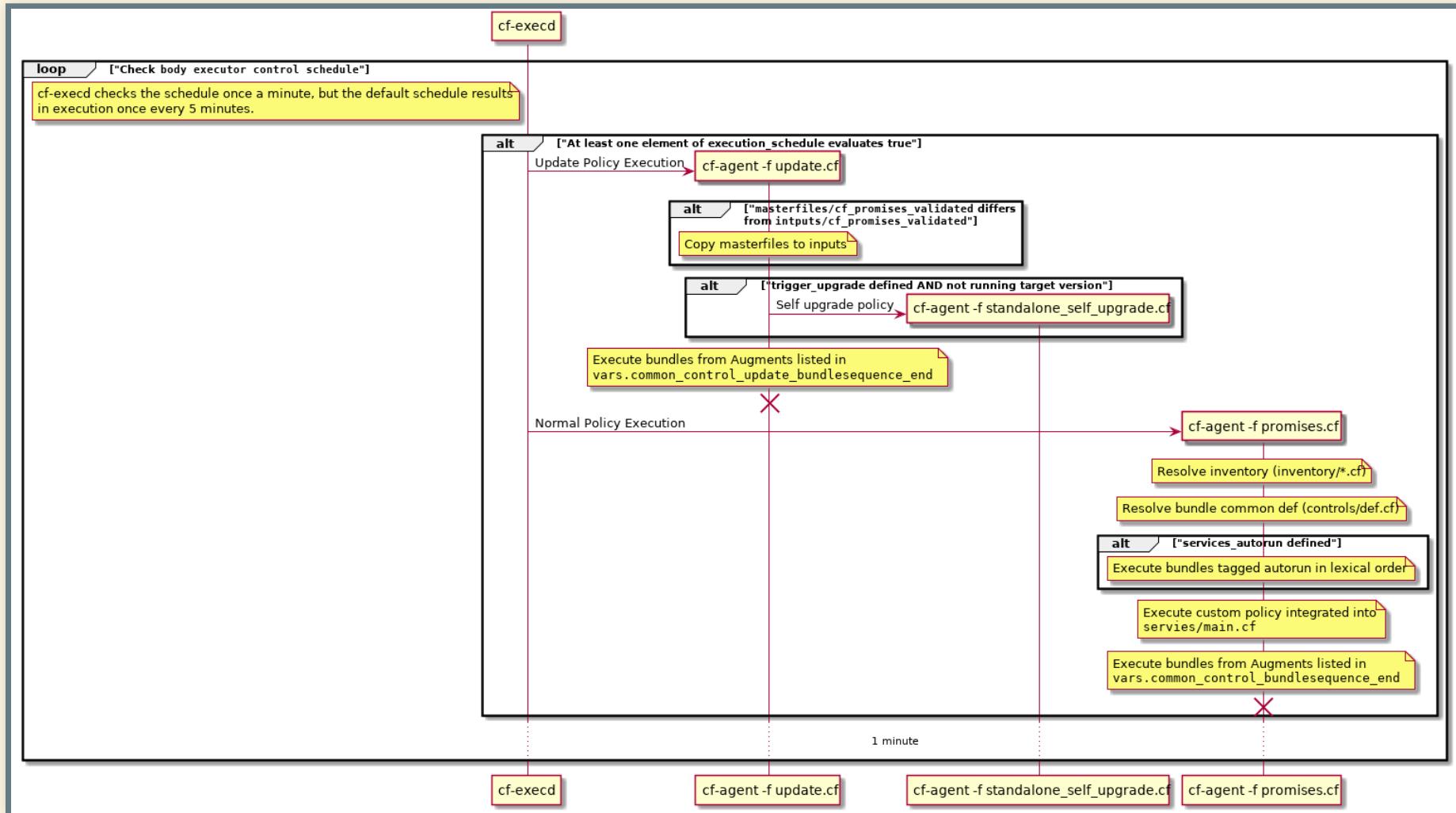
OVERVIEW

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

USER ENTRIES

- 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*?

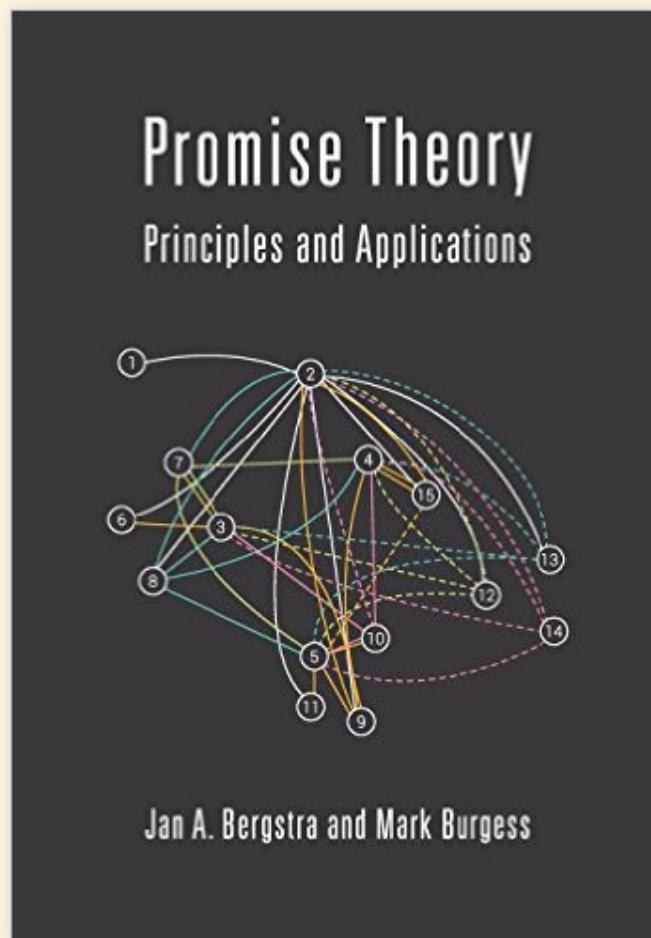
POP QUIZ

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

POP QUIZ

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

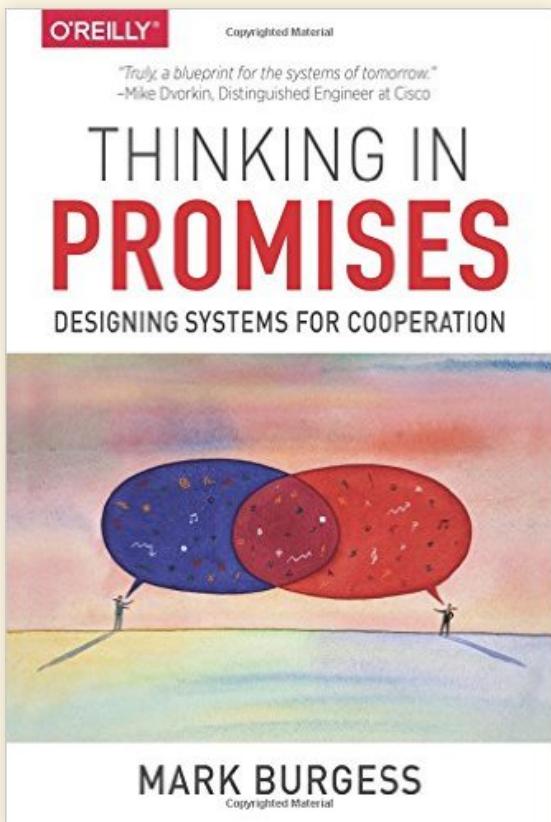
PROMISE THEORY



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



▶ 0:00 / 9:39



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

SYNTAX STRUCTURE

```
bundle type name
{
    promise_type:

        context::

            "promiser" -> { "optional", "stakeholder" }
                attribute_1 => value_1,
                attribute_2 => value_2,
                meta => { "tag1", "tag2", "tag3=something" },
                comment => "Why important";
}

body attribute_N name(optional)
{
    context::
        attribute_N_1 => "value";
        attribute_N_2 => { "value" };
}
```

BUNDLES

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

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, value)
{
    vars:
        "$(item)" string => "$(value)";
        "array[$(item)]" string => "$(value)";
}
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)])";
}
```

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+)

There are **41** body types as of 3.15.0

```
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";
}

body file control
{
  namespace => "bodydefault";
}
body action files_action
{
  action_policy => "warn";
}
```

```
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 **promise types**
 - Classes then Vars are evaluated during policy parsing and pre-eval
 - 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
      info: Using command line specified bundlesequence
R: red+blue = Purple
```

```
bundle agent illustrating_normal_order
{
  vars:
    "color1" string => "red";
    "color2" string => "blue";

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

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

AUGMENTS (def.json)

- Very early definition
- Loaded if def.json is found next to
\$(sys.policy_entry_filename)
- Classes based on system discovery
(platform/networks/arch)
- Variables defined in def bundle scope

EXAMPLE AUGMENTS

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"  
  }  
}
```

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::
        "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-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

MINIMUM_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

- 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 );
}
```

FUNCTIONS

There are 181 functions as of 3.17.0

accessedbefore, accumulated, ago, and, basename,
bundlesmatching, bundlestate, callstack_callers,
callstack_promisers, canonify, canonifyuniquely,
cf_version_after, cf_version_at, cf_version_before,
cf_version_between, cf_version_maximum,
cf_version_minimum, changedbefore, classesmatching,
classfiltercsv, classify, classmatch, concat,
countclassesmatching, countlinesmatching, data_expand,
data_readstringarray, data_readstringarrayidx

data_reextract, data_sysctlvalues, datastate, difference,
dirname, diskfree, escape, eval, every, execresult,
execresult_as_data, expandrange, file_hash, fileexists,
fileexist, filesize, filestat, filter, findfiles, findprocesses,
format, getclassmetatags, getenv, getfields, getgid,
getindices, getuid, getuserinfo, getusers, getvalues,
getvariablemetatags, grep, groupexists, hash, hash_to_int,
hashmatch, host2ip, hostinnetgroup, hostrange

hostsseen, hostswithclass, hubknowledge, ifelse,
intersection, ip2host, iprange, irange, isdir, isexecutable,
isgreaterthan, isipinsubnet, islessthan, islink, isnewerthan,
isplain, isvariable join, lastnode, laterthan, Idaparray,
Idaplist, Idapvalue, length, Isdir, makerule, maparray,
mapdata, maplist, max, mean, mergedata, min,
network_connections, none, not, now, nth, on, or,
packagesmatching, packageupdatesmatching,
parseintarray, parsejson

`parseealararray`, `parsestringarray`, `parsestringarrayidx`,
`parseyaml`, `peerleader`, `peerleaders`, `peers`, `processexists`,
`product`, `randomint`, `read_module_protocol`, `readcsv`,
`readdata`, `readenvfile`, `readfile`, `readintarray`, `readintlist`,
`readjson`, `readrealarray`, `readreallist`, `readstringarray`,
`readstringarrayidx`, `readstringlist`, `readtcp`, `readyaml`,
`regarray`, `regcmp`, `regex_replace`, `regextract`, `registryvalue`,
`regldap`, `regline`, `reglist`, `remoteclassesmatching`

remotescalar, returnszero, reverse, rrange, selectservers,
shuffle, some, sort, splayclass, splitstring, storejson,
strcmp, strftime, string_downcase, string_head,
string_length, string_mustache, string_replace,
string_reverse, string_split, string_tail, string_trim,
string_upcase, sublist, sum, sysctlvalue, translatepath,
unique, url_get, usemodule, userexists, validdata, validjson,
variablesmatching, variablesmatching_as_data, variance

POP QUIZ

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 - When is the next break?

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- What is the fundamental underlying philosophy that CFEEngine is based on?
 - When is the next break?
- Which component collects reports from remote agents?
 - What types of bundles are there?
- In what order are promises within a bundle processed?

POP QUIZ

- What is a bundle?
- What is the fundamental underlying philosophy that CFEEngine is based on?
 - When is the next break?
- Which component collects reports from remote agents?
 - What types of bundles are there?
- In what order are promises within a bundle processed?
- How can you use new language features when you still have some old agents?

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_43c979e264924d0b4a2d3b568d71ab8c768ef6348
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_PREF

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
ubuntu, ubuntu_19, ubuntu_19_04, x86_64,

CLASS EXPRESSIONS

Table 2: 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"
      if => canonify( $(my_class_name) );
}
```

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

CLASS SCOPE

- Namespace scoped classes are accessible from any bundle.
- Persist until end of agent run or explicitly undefined.
- Bundle scoped classes are only accessible from within the bundle the class was defined, or bundles actuated via methods where inheritance is specified
- All hard classes are namespace scoped

CLASS SCOPE RULES

Table 3: Default scope for
classes type promises

Bundle Type	Scope
common	namespace
agent	bundle

- classes bodies default to **namespace scope**

Pro Tip: Use **bundle** scoped classes whenever possible.

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"
      expression => iprange( "10.1.0.0/16" );
}
```

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:
    sshd_config_repaired:::
      "sshd"
        service_policy => "restart",
        comment => "For sshd to pick up changed config it must be restarted."
}
```

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, Idaparray, 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 types of classes are there?

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- What types of classes are there?
 - What is the difference?

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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?

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
- 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)'";
    "string5 = '$(string5)'";
}
```

```
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 = '999999999'
```

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 => parsejson('{
        "rhel6_updates": {
          "id": { "value": "RHEL6_UPDATES" },
          "name": { "value": "RHEL 6.x Updates" },
          "baseurl": { "value": "https://$(server)/RHEL6/updates" }
        }
      }');

    "idx" slist => getindices( repos );

  reports:
    "URL = '$(repos[$(idx)][baseurl][value])'";
}
```

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

DIFFERENCES BETWEEN "CLASSIC ARRAYS" AND "DATA CONTAINERS"

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

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

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

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

POP QUIZ

POP QUIZ

- Which component makes changes to your system?

POP QUIZ

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

POP QUIZ

- Which component makes changes to your system?
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 - What symbol terminates a promise?

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 - What types of variables are available?

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

ENABLE SERVICES_AUTORUN

```
[root@hub masterfiles]# cat > def.json <<EOF
{
    "vars": {
        "mpf_access_rules_collect_calls_admit_ips": [ "0.0.0.0/0" ],
        "control_server_call_collect_interval": "1",
        "control_hub_exclude_hosts": [ "0.0.0.0/0" ]
    },
    "classes": {
        "mpf_augments_control_enabled": [ "any::" ],
        "client_initiated_reporting_enabled": [ "any::" ],
        "cfengine_internal_purge_policies": [ "any::" ],
        "services_autorun": [ "any::" ]
    }
}
EOF
```

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::
        "File Exists"
            if => fileexists("/tmp/nologin");
}
bundle agent __main__{methods:"nologin";}
```

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::

      "DEBUG $(this.bundle): Heartbeat"
        if => "heartbeat_repaired";

      "DEBUG $(this.bundle): Flatline"
        unless => "heartbeat_repaired";
}
bundle agent __main__{methods:"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";
# ...
```

```

any::
  "_default_page"
    string => ifelse( "debian|ubuntu", "/var/www/html/index.html",
                      "centos|redhat", "/var/www/error/noindex.html",
                      "UNKNOWN" ),
    meta => { "inventory", "attribute_name=Apache Default Page" };

packages:
  "$(_package)"
    policy => "present";

services:
  "$(_service)"
    service_policy => "start";

reports:
  inform_mode|verbose_mode:
    "My default page is from $_default_page";
}

bundle agent __main__{methods:"example_package_and_service";}

```

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"
      expression => regcmp( "^www.*", $(sys.fqhost) ),
      meta => { "inventory", "attribute_name=Role Classes" };
}
bundle agent __main__{methods:"classes_role_by_hostname";}
```

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",
                  };

    "sadc01_subnets"
      slist => { "172.19.4.0/23", "192.168.33.4-5" };

    "continent"
      string => ifelse("north_america", "North America",
                        "south_america", "South America",
                        "Unknown"),
  meta => { "inventory", "attribute_name=Continent" };
}
```

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"  
    expression => iprange( $(sadc01_subnets) );  
  
reports:  
  "DEBUG|DEBUG_${this.bundle}":  
    "DEBUG ${this.bundle}: Continent = '$(continent)'";  
}  
bundle agent __main__{methods:"classify_geo_location_by_network";}
```

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),
        comment => "It's important that we don't restart the service with a
                    broken config, or the service will be down.';

  commands:
    sshd_config_repaired.config_valid::
      "$(paths.service)"
        handle => "ssh_config_manage_kv_restart_after_config_change",
        args => "sshd restart",
        comment => "The service must be restarted in order to pick up new
                    configuration settings.';

  reports:
    "DEBUG ${this.bundle}: Repaired configuration"
      if => "sshd_config_repaired";
```

```
"DEBUG $(this.bundle): Configuration Valid"
    if => "config_valid";

"DEBUG $(this.bundle): Restarted sshd after config change"
    depends_on => { "ssh_config_manage_kv_restart_after_config_change" };
}

bundle agent __main__{methods:"manage_ssh";}
```

```
[root@hub masterfiles]# cf-agent -KID DEBUG_ssh_config,DEBUG_ssh_config_manage_
    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 re
    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}}}.';
}
bundle agent __main__{methods:"motd";}
```

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_regeextract("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(
          execresult("/usr/bin/ssh-keygen -l -f /etc/ssh/" + key,
                    noshell),
          "\s+", 5), 1),
      meta => { "inventory", "attribute_name=SSH HostKey Fingerprint" };

  reports:
    "/etc/ssh/$(keys).pub
     type: $($keys)[type]
     fingerprint: $(fingerprint[$(keys)])";
```

```
}
```

```
bundle agent __main__{methods:"example_inventory_ssh_host_keys";}
```

```
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
    # order to work with it, we need to pull it into a proper data container.
    "content" data => "$(d[content])";

  reports:

    # Let's view the multi-line JSON representation of the `url_get()`` response
    "$(with)" with => string_mustache( "{{%-top-}}", d);

    # Let's view the multi-line JSON representation of our extracted `content` datacontainer.
```

```
    "$(with)" with => string_mustache( "{{%-top-}}", content);  
}  
bundle agent __main__{methods:"example_url_get_wtfismyip_v0";}
```

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

MULTIPLE OUTCOMES

Create immutable file

```
touch /tmp/immutable  
sudo chattr +i /tmp/immutable
```

examples/00-20-example-multiple_outcomes.cf

```
bundle agent example_multiple_outcomes
{
  files:
    "/tmp/immutable"
      create => "true",
      edit_line => example_edit_line,
      classes => results("bundle", "my_id");

  vars:
    "classes" slist => classesmatching(".*my_id.*");

  reports:
    "Found Class = '$(classes)'";
}

bundle edit_line example_edit_line
{
  insert_lines:
    "I want to edit an immutable file";
}
bundle agent __main__{methods:"example_multiple_outcomes";}
```

```
info: Inserted the promised line 'I want to edit an immutable file' into '/tmp/immutable.cf'
info: insert_lines promise 'I want to edit an immutable file' repaired
error: Can't rename '/tmp/immutable.cf-after-edit' to '/tmp/immutable' - so
error: Unable to save file '/tmp/immutable' after editing
error: Errors encountered when actuating files promise '/tmp/immutable'
R: Found Class = 'my_id_failed'
R: Found Class = 'my_id_not_kept'
R: Found Class = 'my_id_error'
R: Found Class = 'my_id_kept'
R: Found Class = 'my_id_reached'
    error: Method 'example_multiple_outcomes' failed in some repairs
```

Refer to **implementation of the results classes body in the stdlib.**

Cleanup immutable file

```
sudo chattr -i /tmp/immutable
sudo rm /tmp/immutable
```

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-VO.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?

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=e01f65d069b9035c280ea0bdba6cf6e47863ac074a170addbad26e98cc8992",  
      "ip": "192.0.2.1",  
      "lastreport": "1582643957"  
    },  
    {  
      "firstseen": "1578745692",  
      "hostname": "hub.example.com",  
      "id": "SHA=70138d580b9fd292ff856746df2fe7f9ded29db9ffca0c4d83acb97cde4d",  
      "ip": "104.236.18.209",  
      "lastreport": "1582643974"  
    }  
  ],  
  "meta": {  
    "count": 2,  
    "page": 1,  
    "timestamp": 1582644064,  
    "total": 7  
  }  
}
```

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)[]'
```

#+REVEAL split

```
"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"
"CISOcy 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 CISOcy 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 Organization"
"BIOS vendor"
"OS type"
"Disk free (%)"
"CISOfy Lynis Suggestion KRLN-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"
    ],
    "hostContextInclude":[
        "cfengine"
    ],
    "hostContextExclude":[
        "coreos"
    ]
}'
```

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,  
      "rowCount": 6,  
      "rows": [  
        [  
          "lex-win7-to-10",  
          "84.212.143.13"  
        ],  
        [  
          "desktop-aj2m57e",  
          "24.143.37.227"  
        ]  
      ]  
    },  
    {"meta": {  
      "count": 1,  
      "index": 0  
    }}  
  ]  
}
```

```
"page": 1,  
"timestamp": 1597765127,  
"total": 1  
}  
}
```

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",  
      "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}"
```

WHAT'S NEW

COMING UP IN 3.17

- `execresult()` can capture *stdout*, *stderr*, or *both*
- `execresult_as_data()`

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. |
| --inform | , -I | - Enable basic information output |
| --key | , -k value | - Comma-separated list of key files to use (one of -k/-H required) |
| --host | , -H value | - Comma-separated list of hosts to encrypt/decrypt files for |
| --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=43c979e264924d0b4a2d3b568d71ab8c768ef63487670f2c51cd85e8cec6

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])";
}
bundle agent __main__
{
  methods:
    "example_load_encrypted_data";
}
```

```
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__
{
  methods: "example_file_content";
}
```

```
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__
{
  methods: "example_validjson";
}
```

```
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
  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::
      "$(file)"
        create => "true",
        template_method => "inline_mustache",
        edit_template_string => "=my_variable=$(sys.date)";
}
```

```
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:
    "cache_maintenance"
      handle => "cache_maintenance_done";
    "demo"
      depends_on => { "cache_maintenance_done" };
}
```

```
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);
}
bundle agent __main__
{
  methods: "example_classfiltercsv";
}
```

```
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)";

}
bundle agent __main__{methods: "example_hash_to_int";}
```

```
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

```
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_

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

```
R: Hello from example_library__main__1
```

examples/library_main_/example_library_main_

```
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_

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

```
R: Hello from example_library_main_2
```

examples/library_main_/example_library_main

```
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)";
}
```

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

Executing

examples/library_main_/example_library_main_

```
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 wa
    error: A method attempted to use a bundle 'example_library_main_2' that238wa
```

-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:
    "$(_c)" if => isvariable( _c );
}
body copy_from missing_ok( file_path )
{
  source => "$(file_path)";
  missing_ok => "true";
}
bundle agent __main__{methods:"example_missing_ok";}
```

```
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}}!?"';

  reports:
    "/tmp/${this.bundle}" printfile => cat( $(this.promiser) );
}
bundle agent __main__{methods:"example_inline_mustache";}
```

```
# 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 n",
  "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",
"dev.tty.ldisc_autoload": "1",
"fs.aio-max-nr": "65536",
"fs.aio-nr": "3301",
"fs.binfmt_misc.cli": "enabled\ninterpreter /usr/lib/binfmt-support/run-detected",
"fs.binfmt_misc.jar": "enabled\ninterpreter /usr/bin/jexec\nflags: \noffset 0",
"fs.binfmt_misc.python2.7": "enabled\ninterpreter /usr/bin/python2.7\nflags:",
"fs.binfmt_misc.python3.8": "enabled\ninterpreter /usr/bin/python3.8\nflags:",
"fs.binfmt_misc.sbcl": "enabled\ninterpreter /usr/lib/sbcl/sbcl-run\nflags: \\",
"fs.binfmt_misc.status": "enabled",
"fs.dentry-state": "311030\t222679\t45\t0\t42660\t0",
"fs.dir-notify-enable": "1",
"fs.epoll.max_user_watches": "6698721",
"fs.file-max": "9223372036854775807",
"fs.file-nr": "46048\t0\t9223372036854775807",
"fs.inode-nr": "507770\t238746",
"fs.inode-state": "507770\t238746\t0\t0\t0\t0",
"fs.inotify.max_queued_events": "16384",
"fs.inotify.max_user_instances": "128",
"fs.inotify.max_user_watches": "98304",
"fs.lease-break-time": "45",
"fs.leases-enable": "1",
"fs.mount-max": "100000",
"fs.mqueue.msg_default": "10",
"fs.mqueue.msg_max": "10",
"fs.mqueue.msgsize_default": "8192",
"fs.mqueue.msgsize_max": "8192",
"fs.mqueue.queues_max": "256",
"fs.nfs.idmap_cache_timeout": "600",

"fs.nfs.nfs_callback_tcpport": "0",
"fs.nfs.nfs_congestion_kb": "183104",
"fs.nfs.nfs_mountpoint_timeout": "500",
"fs.nfs.nlm_grace_period": "0",
"fs.nfs.nlm_tcpport": "0",
"fs.nfs.nlm_timeout": "10",
"fs.nfs.nlm_udpport": "0",
"fs.nfs.nsm_local_state": "3",
"fs.nfs.nsm_use_hostnames": "0",
"fs.nr_open": "1048576",
"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_unrecoverable_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.poolsiz": "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",
"kernel.sched_domain.cpu0.domain1.busy_factor": "32",
"kernel.sched_domain.cpu0.domain1.cache_nice_tries": "1",
"kernel.sched_domain.cpu0.domain1.flags": "4655",
"kernel.sched_domain.cpu0.domain1.imbalance_pct": "117",
"kernel.sched_domain.cpu0.domain1.max_interval": "8",
"kernel.sched_domain.cpu0.domain1.max_newidle_lb_cost": "18377",

"kernel.sched_domain.cpu0.domain1.min_interval": "4",
"kernel.sched_domain.cpu0.domain1.name": "MC",
"kernel.sched_domain.cpu1.domain0.busy_factor": "32",
"kernel.sched_domain.cpu1.domain0.cache_nice_tries": "0",
"kernel.sched_domain.cpu1.domain0.flags": "4783",
"kernel.sched_domain.cpu1.domain0.imbalance_pct": "110",
"kernel.sched_domain.cpu1.domain0.max_interval": "4",
"kernel.sched_domain.cpu1.domain0.max_newidle_lb_cost": "28467",
"kernel.sched_domain.cpu1.domain0.min_interval": "2",
"kernel.sched_domain.cpu1.domain0.name": "SMT",
"kernel.sched_domain.cpu1.domain1.busy_factor": "32",
"kernel.sched_domain.cpu1.domain1.cache_nice_tries": "1",
"kernel.sched_domain.cpu1.domain1.flags": "4655",
"kernel.sched_domain.cpu1.domain1.imbalance_pct": "117",
"kernel.sched_domain.cpu1.domain1.max_interval": "8",
"kernel.sched_domain.cpu1.domain1.max_newidle_lb_cost": "24312",
"kernel.sched_domain.cpu1.domain1.min_interval": "4",
"kernel.sched_domain.cpu1.domain1.name": "MC",
"kernel.sched_domain.cpu2.domain0.busy_factor": "32",
"kernel.sched_domain.cpu2.domain0.cache_nice_tries": "0",
"kernel.sched_domain.cpu2.domain0.flags": "4783",
"kernel.sched_domain.cpu2.domain0.imbalance_pct": "110",
"kernel.sched_domain.cpu2.domain0.max_interval": "4",
"kernel.sched_domain.cpu2.domain0.max_newidle_lb_cost": "25634",
"kernel.sched_domain.cpu2.domain0.min_interval": "2",
"kernel.sched_domain.cpu2.domain0.name": "SMT",
"kernel.sched_domain.cpu2.domain1.busy_factor": "32",
"kernel.sched_domain.cpu2.domain1.cache_nice_tries": "1",
"kernel.sched_domain.cpu2.domain1.flags": "4655",
"kernel.sched_domain.cpu2.domain1.imbalance_pct": "117",
"kernel.sched_domain.cpu2.domain1.max_interval": "8",
"kernel.sched_domain.cpu2.domain1.max_newidle_lb_cost": "20399",
"kernel.sched_domain.cpu2.domain1.min_interval": "4",

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R: {
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"net.ipv6.neigh.vboxnet6.base_reachable_time": "30",
"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.unicast_solicit": "3",
"net.ipv6.neigh.vboxnet8.unresqlen": "101",
"net.ipv6.neigh.vboxnet8.unresqlen_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.unresqlen": "101",
"net.ipv6.neigh.vboxnet9.unresqlen_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"
```

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}
```

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__
{
  methods: "example_isipinsubnet";
}
```

```
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
{
  vars:
    "my_port" string => "80", meta => { "port" };
}
bundle agent __main__
{
  methods: "example_variablesmatching_as_data";
}
```

```
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
R: Emacs process: nickanderson	1064418	4439	4438	14.3
R: Emacs process: nickanderson	4593	4355	4355	0.2

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)";
}
bundle agent __main__
{
  methods:
    "First promiser"
      usebundle => example_callstack_promisers;
}
```

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]
}

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)";
}
bundle agent __main__
{
  methods: "example_url_get";
}
```

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/$(sysname)_$(version)`
- Define `trigger_upgrade` for set of hosts. Ref updateclasses:

```
"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 }' );
```

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

```
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 => mergeddata( merged, "va_active_opsview_scripts_new[$(va_a

reports:
  "merged: $(with)"
    with => string.mustache( "{{%-top-}}", merged );
  "Rendered to desired format$(const.n)$(with)"
    with => string.mustache( "{{#-top-}}{{name}}={{rule}}$(const.n){{/-top-}}
}

bundle agent app_opsview_agent
{
  vars:
```

```
"va_opsview_rules_scripts_array_app_opsview_agent_windows"
  meta => { "opsview_rules_scripts" },
  data => '['
{
  "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 $ARG1$; e"
  "type": "scripts"
}
]';
"va_opsview_rules_scripts_array_app_vars_windows"
  meta => { "opsview_rules_scripts" },
  data => '['
{
  "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: 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 0",
  "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 $  
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 )
{
    reports:
        parent_1::
            "$(id_string) see class parent_1 defined";
        !parent_1::
            "$(id_string) see class parent_1 NOT defined";
}
bundle agent __main__ { methods: "parent"; }
```

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";
}
bundle agent __main__ { methods: "parent"; }
```

Variable name

default:parent.my_returned_vars[1]
default:parent.my_returned_vars[msg]

Variable value

Something
Hello world

USEFUL TOOLS AND TIPS

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

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$(const.n) World' | grep Hello",
  reports:
    "$(result_with_shell)";
}
```

R: Hello

- `useshell` allows you to redirect output

```
bundle agent main
{
  classes:
    "successfully_executed"
      expression => returnszero( "/bin/echo 'Hello$(const.n) World' | grep -i
  reports:
    successfully_executed::
    "Successfully Executed";
    "Grep found:"
      printfile => cat( "$(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
```

cf-remote

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

Install and bootstrap remote hosts

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

cf-locate

cf-locate

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

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.";
}
```

GETTING THE MOST FROM THE DOCUMENTATION

jq

```
echo '{
  "data": [
    {
      "firstseen": "1578745699",
      "hostname": "host001.example.com",
      "id": "SHA=e01f65d069b9035c280ea0bdba6cf6e47863ac074a170addbad26e98cc8992",
      "ip": "192.0.2.2",
      "lastreport": "1582643957"
    },
    {
      "firstseen": "1578745692",
      "hostname": "hub.example.com",
      "id": "SHA=70138d580b9fd292ff856746df2fe7f9ded29db9ffca0c4d83acbbb97cde4d",
      "ip": "192.0.2.1",
      "lastreport": "1582643974"
    }
  ],
  "meta": {
    "count": 2,
    "page": 1,
    "timestamp": 1582644064,
    "total": 7
  }
}'
```

```
{
  "data": [
    {
```

```
"firstseen": "1578745699",
"hostname": "host001.example.com",
"id": "SHA=e01f65d069b9035c280ea0bdba6cf6e47863ac074a170addbad26e98cc8992",
"ip": "192.0.2.1",
"lastreport": "1582643957"
},
{
  "firstseen": "1578745692",
  "hostname": "hub.example.com",
  "id": "SHA=70138d580b9fd292ff856746df2fe7f9ded29db9ffca0c4d83acb97cde4d",
  "ip": "104.236.18.209",
  "lastreport": "1582643974"
}
],
"meta": {
  "count": 2,
  "page": 1,
  "timestamp": 1582644064,
  "total": 7
}
}
```

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-include=not_rh_satellite_registered
jq '.data | map(.ip) | join(",")'|tr -d ''')
```

ADDITIONAL RESOURCES

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

Write policy in a common style. Make it easier for others to quickly digest your policy.

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

CFEngine Syntax highlighting and snippets for Sublime Text

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 CFEEngine
Enterprise Hub administration

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 recommended 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
[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_upd": { "path": "/etc/puppetlabs/code/environments/production/manifests/masterfiles.cf" } } }' > 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 what's 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

POP QUIZ

- Who was Mr. Slate?

POP QUIZ

- Who was Mr. Slate?
- How do you get an overview of the changes to your clone?

POP QUIZ

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

CFEngine