

Cloud Native Posture Management for All

Introducing cnquery & cnspec

Ben Rockwood @benr



Security

Protecting what matters.



Compliance

Doing what you say you do.



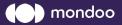
Posture

Situational Awareness



Tool Sprawl

You ain't got time for all dat!



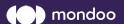
Assurance

The reconciliation loop that aligns your **desired** (expected) state with **reality**.... So you can sleep at night.



cnquery

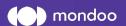
Cloud Native Query: A GraphQL Interface to All the Things



GraphQL in a Nutshell

```
> 0 ~: vi — Konsole <2>
                                                  _ D X
users {
         name
         uid
         shell
                                 10,0-1
                                                  Top
```

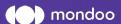
```
• ~: vi — Konsole <2>
                                             _ - ×
users.list: [
  0: {
    shell: "/bin/bash"
    uid: 0
    name: "root"
  1: {
    shell: "/usr/sbin/nologin"
    uid: 1
    name: "daemon"
                              3,0-1
                                             Top
```



GraphQL in a Nutshell

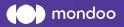
```
> 0 ~: vi — Konsole <2>
                                                _ _ X
users.where(name == "benr"){ * }
                                13,0-1
                                                All
```

```
> • -: vi — Konsole <2>
                                            _ _ ×
users.where.list: [
 0: {
    name: "benr"
   gid: 1000
    group: group name="benr" gid=1000
    sid: ""
   uid: 1000
    enabled: false
    shell: "/bin/bash"
   home: "/home/benr"
    authorizedkeys.list: [
 0: authorizedkeys.entry key="AAA...py/"
  1: authorizedkeys.entry key="AAA..aDo="
    sshkeys: [
                             2,3
                                           Top
```



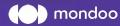
For your systems

```
> 0 ~: vî — Konsole <2>
                                                                                                     _ - ×
 cnquery run -c 'users{ name }'
users.list: [
 0: {
   name: "root"
   name: "daemon"
   name: "bin"
   name: "sys"
   name: "sync"
                                                                                        1,1
                                                                                                      Top
```



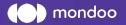
For your fleet

```
> 0 ~: vi — Konsole <2>
                                                                                                     _ _ X
$ cnquery shell ssh benr@cuddletech.com --identity-file ~/.ssh/id_ed25519
cnquery> ports.where( state == 'listen' && address != "127.0.0.1" ) address port protocol
ports.where.list: [
 0: {
   port: 60396
   address: "100.100.81.124"
   protocol: "tcp4"
   port: 111
   address: "0.0.0.0"
   protocol: "tcp4"
   port: 30931
   address: "0.0.0.0"
   protocol: "tcp4"
                                                                                       3,92
                                                                                                      Top
```



For your cloud

```
O ~: vi — Konsole <2>
                                                                                                     _ D X
$ cnquery shell gcp org 2XXXXXXXXXXXXXX
cnquery> gcloud.project.cloudRun.services{ name annotations }
gcloud.project.cloudRun.services: [
    annotations: {
      client.knative.dev/user-image: "gcr.io/mondoo-web/registry-dev:latest"
    name: "registry-dev"
  1: {
    annotations: {
      client.knative.dev/user-image: "gcr.io/mondoo-web/registry-public:latest"
    name: "registry-public"
                                                                                       2,0-1
                                                                                                      Top
```



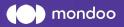
cnspec

Cloud Native Specification: Creating and reporting on assertions about code, infrastructure, etc.



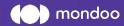
For your systems

```
> • ~: vî — Konsole <2>
                                                                                                      _ 🗆 X
$ cnspec shell
cnspec> users.none(name == 'benr')
[failed] users.none()
  actual:
    0: user id = user/1000/benr
cnspec> users.contains(name == 'benr')
[ok] value: 1
                                                                                        12,0-1
                                                                                                       Top
```

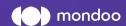


For your Code Repositories

```
> 0 ~: vi — Konsole <2>
                                                                               _ _ ×
 $ cnspec run github org mondoohq -c '
       github.organization{
           twoFactorRequirementEnabled == true
       }'[]
github.organization: {
 twoFactorRequirementEnabled == true: true
                                                                    5,13
                                                                               All
```



Start with query-packs & policies ready to use!

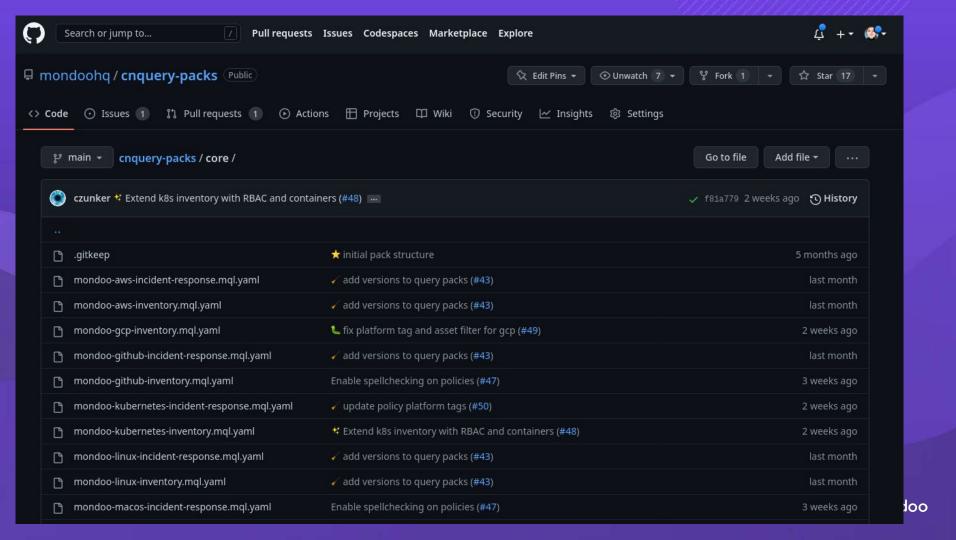


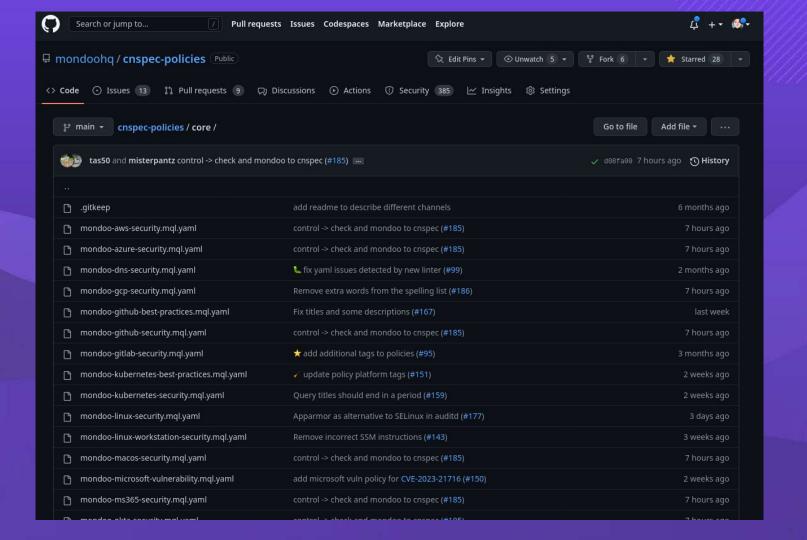
Integrations Ready To Use For:

AWS GCP Azure Kubernetes Docker Registries VMware Gitlab Github Google Workspace MS365 Okta Slack Linux macOS Linux Arista DNS TLS Terraform Vagrant

.... And anything you can dream of!



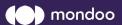






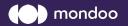
XSPM

Extensible Security Posture Management ==
Open Source, Cloud Native



github.com/mondoohq

Learn more at Mondoo.com



Thank you



Ben Rockwood







