

The world runs on code. We secure it.

KICS

Community Meeting

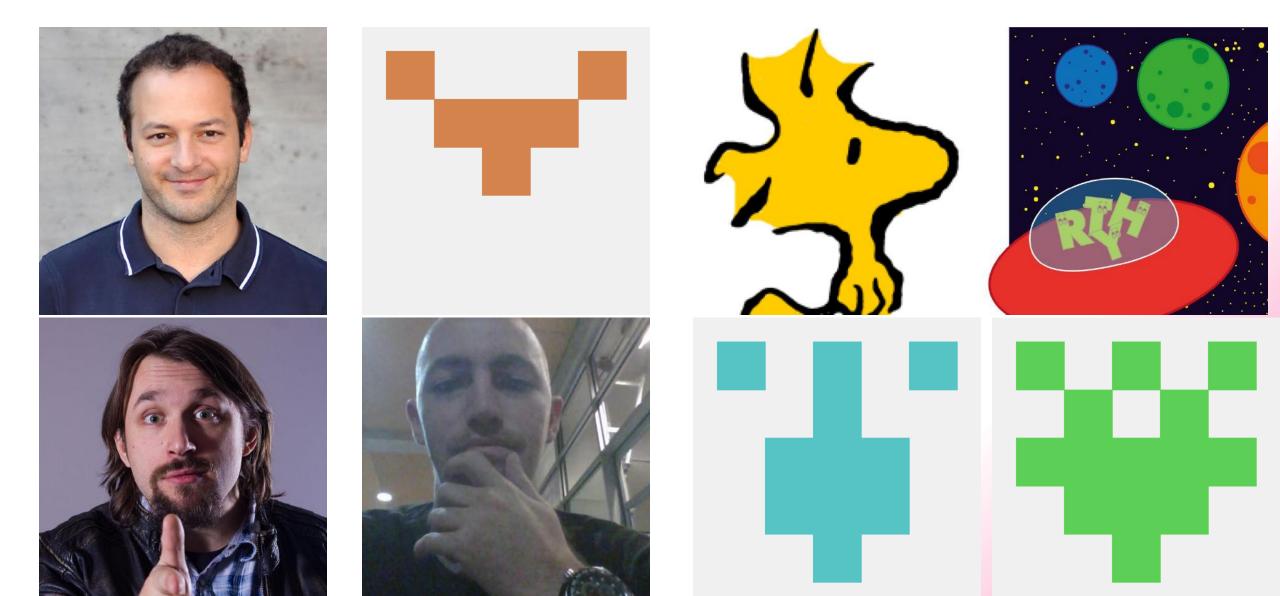
2022.09.22



Meet the KICS team



KICS contributors (2+ commits)



Community meetings

- Bi-weekly meeting of the community & the KICS team.
- Meeting in mid sprint to:
 - Conclude the previous sprint & release
 - Talk about upcoming release & following sprint
 - Hear you, the community, on what interests you & what do you want to do / help with.

KICS 1.6 contributors:
one-number-one-number

KICS 1.5 contributors: @rndmh3ro @Churro

@jplanckeel @AlexEndris

@liorj-orca @lipeavelar @roi-

orca @LupovichRan

@ramprasathasokan @nv35

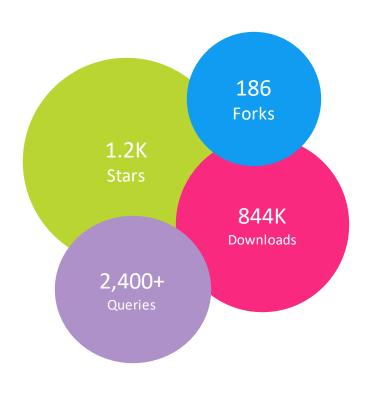
@konstruktoid @jaevans

@roock @tspearconquest

@jycamier @floh96 @rams3sh

@gafnit-lightspin

KICS Community Updates – 2022-09-22



KICS 1.6.0 was released

KICS GitHub Action - still in KICS 1.5.15 - Let's discuss

Community PR Merged (for KICS 1.6.1)

- + add --ci flag to gitlab examples #5682 @sluetze
- fix query descriptionText #<u>5810</u> @tomk-orca
- + fix queries expected value to 'should be...' #5816 @liorj-orca

Community PR Pending (for later version)

- change to use working directory when looking for kics.config #5319 @lipeavelar
- + bump github.com/GoogleCloudPlatform/terraformer from 0.8.21 to 0.8.22 #<u>5817</u> @tomk-orca
- + correct the GH action name #5818 @konstruktoid

Release 1.6.0 - 2022.09.14

- **Highlights**
- Support Crossplane, Knative, Pulumi and Serverless technologies.
- KICS Auto-Remediation feature for terraform files (details).
- Dynamic scanning of Kubernetes clusters (details).
- gitignore processing by default.
- -t flag behavior changed for consistency purposes.
- Masking secrets on results when KICS finds them.

v1.6.0 (Latest



New features and improvements

feat(knative&crossplane): add support to knative and crossplane (#5634) feat(report): hide secrets in report results (#5504) feat(scan); consider .gitignore to automatically exclude paths by default (#5506) feat(pulumi): add support to Pulumi yaml parsing (#5648) queries(pulumi): add pulumi gcp security queries (#5654) queries(pulumi): add pulumi aws security queries (#5653) queries(pulumi): add pulumi azure security queries (#5658) feat(serverlessfw): add support to serverless fw yml file parsing (#5670) feat(knative): add knative security query and k8's pod queries interoperability (#5692) feat(queires): add serverless framework queries (#5679) feat(serverless): initial cloudformation security queries refactoring (#5697) feat(engine): Kubernetes API support for runtime k8s clusters scan (#5651)



& Bug fixes

fix(resolver): exclude resolve path call for the same path reference (#5511) (#5514)



Dependency updates bumps

build(deps): bump github.com/zclconf/go-cty from 1.10.0 to 1.11.0 build(deps): bump github.com/aws/aws-sdk-go from 1.44.78 to 1.44.82 build(deps): bump github.com/moby/buildkit from 0.10.3 to 0.10.4 build(deps): bump helm.sh/helm/v3 from 3.9.3 to 3.9.4 ci(deps); bump goreleaser/goreleaser-action from 3.0.0 to 3.1.0 build(deps): bump github.com/mackerelio/go-osstat from 0.2.2 to 0.2.3 build(deps): bump github.com/hashicorp/hcl/v2 from 2.13.0 to 2.14.0 build(deps): bump github.com/tdewolff/minify/v2 from 2.12.0 to 2.12.1 build(deps): bump github.com/gookit/color from 1.5.1 to 1.5.2 build(deps): bump github.com/aws/aws-sdk-go from 1.44.82 to 1.44.90 build(deps): bump github.com/aws/aws-sdk-go from 1.44.90 to 1.44.91



docs(kicsbot): update images digest

1.6.1 Release Plans

Feature Name	Due Date	Actual
BOM Support AWS RDS	Sep 2022	In investigation
BOM Support – AWS DynamoDB	Sep 2022	In investigation
BOM Support – AWS Aurora	Sep 2022	In investigation

Planned releases:

- 1.6.1
 - 28 September, 2022
- 1.6.2
 - 12 October, 2022

HacktoberFest Plans

KICS Auto-remediation add queries to new platforms:

- + Ansible
- CloudFormation

Extra queries for platforms added in 1.6:

- + Crossplane
- + Pulumi
- + Knative
- + Serverless
- + Alicloud

Adding support to new platforms:

- + RedHat Scanning Openshift;
- Puppet IaC tool
- + AWS SecurityHub
- + Microsoft Defender for Cloud

Other, TBA

What is keeping us busy...

Github Action

The 1.5.15 vs 1.6 Dilemma

```
COPY ./entrypoint.sh /entrypoint.sh

RUN chmod +x /entrypoint.sh

COPY ./ /app

ENTRYPOINT ["/entrypoint.sh"]

uses:checkmarx/kics-action@v1.4

uses:checkmarx/kics-action@v....
```

```
COPY ./entrypoint.sh /entrypoint.sh

RUN chmod +x /entrypoint.sh

COPY ./ /app

ENTRYPOINT ["/entrypoint.sh"]
```

uses:checkmarx/kics-action@v1.5.x

```
FROM <a href="mailto:checkmarx/kics">checkmarx/kics</a>:gh-action

COPY ./entrypoint.sh /entrypoint.sh

RUN chmod +x /entrypoint.sh

COPY ./ /app

ENTRYPOINT ["/entrypoint.sh"]
```

uses:checkmarx/kics-action@v1.6

Automatically get latest version

- > Stop the use of magic numbers
- > Add last version data in assets/libraries/common.json
- > Get last version data from endoflife.date/api

Increase Code Coverage

- > Add more unit tests
- > Code Coverage back to 80%



Should KICS scan GitHub workflows?

Potential queries:

> Action not pinned to a full-length commit SHA

```
- name: KICS scan
uses: checkmarx/kics-github-action@v1.5
uses: checkmarx/kics-github-action@4988213cc09c75b0cfb8bb845f3734d5b662408c
```

> GITHUB_TOKEN permissions not restricted

```
name: "KICS"

name: "KICS"

non:

push:

push:

pull_request:

# The branches below must be a subset of the branches above

branches: [ main, master ]

paths-ignore:

- '**/*.md'
- '**/*.txt'

schedule:

- cron: '28 15 * * 3'

https://documents.com/documents/permissions:

contents: read
```

Should KICS scan GitHub workflows?

title"; Is \$GITHUB_WORKSPACE"

Potential queries:

Script injection

```
run: |
   title="${{ github.event.pull_request.title }}"
```

> Secrets in use

> ...

Flags Deprecation

We are planning to deprecate some flags in KICS, during KICS 1.6.x releases.

The motivation: continuously keep "how to use KICS" documentation easy to read and follow; continuously keep KICS maintenance and improvements easy and accessible to the community.

- --minimal-ui
- --no-progress
- --preview-lines @lior-orca (use case: decrease it to 1 preview line, to reduce the noise)
- --no-color
- --input-data





by CheckmarX