AN INTRODUCTION TO CONTAINER ORCHESTRATION

FROM 0 TO



TO KUBERNETES

ABOUT ME

HI, I'M HEIKO



- I'm a Senior Consultant from a company you never heard
- I help putting EVs in the Cloud
- (Event) Photography
- Longboarding



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HI, I'M CEDI







CONTAINERS, CONTAINERS EVERYWHERE







- Consistency
- Automation
- Stability
- Scalability

- Yet another layer...
- Learning Curve
- Documentation
- Plethora of tools

CONTAINER! WHY?

VM ORCHESTRATION







CONTAINER ORCHESTRATION









CONTAINER

ORCHESTRATION







COMPOSE IS A TOOL FOR DEFINING AND RUNNING MULTI-THE SERVICES FROM YOUR CONFIGURATION.

CONTAINER DOCKER APPLICATIONS. WITH COMPOSE, YOU USE A YAML FILE TO CONFIGURE YOUR APPLICATION'S SERVICES. THEN, WITH A SINGLE COMMAND, YOU CREATE AND START ALL

Docker Compose Documentation





DOCKER-COMPOSE

| <pre>version: '3.5' services: gitlab: image: 'gitlab/gitlab-ce:latest' restart: always hostname: 'gitlab.example.com' environment: GITLAB_OMNIBUS_CONFIG: external_url 'http://gitlab.example.com' registry_external_url 'http://registry.gitlab_rails['gitlab_shell_ssh_port'] = 222 gitlab_rails['smtp_andle'] = "true" gitlab_rails['smtp_address'] = "some-mail-s gitlab_rails['smtp_address'] = "noreplyQat gitlab_rails['smtp_athentication'] = "" gitlab_rails['smtp_athentication'] = "" gitlab_rails['registry_enabled'] = "true" gitlab_rails['registry_nost'] = "registry.g gitlab_rails['registry_path'] = "/opt/stora nginx['real_ip_recursive'] = "on" nginx['real_ip_recursive'] = "on" nginx['real_ip_recursive'] = "on" nginx['real_ip_recursive'] = "on" nginx['listen_https'] = false nginx['listen_port'] = 80 registry_nginx['ssl_certificate_j = "/gitla registry_nginx['ssl_certificate_j = "/gitla registry_nginx['ssl_certificate_j = "/gitla registry_gitlab/config:/etc/gitlab"</pre> | | File: docker-compose_clean.yml |
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| <pre>services: gitlab: image: 'gitlab/gitlab-ce:latest' restart: always hostname: 'gitlab.example.com' environment: GITLAB_OMNIBUS_CONFIG: external_url 'http://gitlab.example.com' registry_external_url 'https://registry.gif gitlab_rails['gitlab_shell_ssh_port'] = 222 gitlab_rails['smtp_enable'] = "true" gitlab_rails['smtp_address'] = "some-mail-s gitlab_rails['smtp_ddress'] = "some-mail-s gitlab_rails['smtp_ddress'] = "some-mail-s gitlab_rails['smtp_ddress'] = "some-mail-s gitlab_rails['smtp_domain'] = "example_com' gitlab_rails['smtp_domain'] = "example_com' gitlab_rails['smtp_domain'] = "example_com' gitlab_rails['registry_enabled'] = "true" gitlab_rails['registry_enabled'] = "true" gitlab_rails['registry_nost'] = "registry.g gitlab_rails['registry_post'] = "somo" gitlab_rails['registry_post'] = "somo" gitlab_rails['registry_post'] = "oon" ginx['real_ip_header'] = "X-Real-IP" nginx['real_ip_recursive'] = "on" nginx['listen_port'] = 80 registry_nginx['ssl_certificate'] = "/gitla registry_nginx['ssl_certificate'] = "/gitla setty_nginx['ssl_certificate'] = "/gitla registry_nginx['ssl_certificate'] = "/gitla setty_nginx['ssl_certificate'] = "/gitla setty_nginx['ssl_certificate'] = "/gitla setty_ngins['ssl_certificate'] = "/gitlab/certs' setty_ndb/certs:/gitlab/certs"</pre> | | version: '3.5' |
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| <pre>21 22 22 23 24 24 24 24 24 24 25 25 25 25 25 26 27 26 27 27 26 27 27 27 27 26 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29</pre> | 20 21 | gitlab_ralls[registry_enabled] = true |
| <pre>gittab_raits['fegistry_port'] = 'sooo' gitlab_rails['gitlab_default_projects_feate gitlab_rails['registry_path'] = "/opt/stora nginx['real_ip_header'] = "X-Real-IP" nginx['listen_https'] = false nginx['listen_port'] = 80 registry_nginx['ssl_certificate'] = "/gitla registry_nginx['ssl_certificate_key'] = "/g ports:</pre> | | gitlab_faits[fegistry_nost] - fegistry. |
| <pre>gittab_rails['registry_path'] = "/opt/stora gitlab_rails['registry_path'] = "/opt/stora nginx['real_ip_header'] = "X-Real-IP" nginx['listen_https'] = false nginx['listen_port'] = 80 registry_nginx['ssl_certificate'] = "/gitla registry_nginx['ssl_certificate_key'] = "/gitla ports: - "8081:80" - "2224:22" - "5000:5000" volumes: - "/opt/storage/gitlab/config:/etc/gitlab" - "/opt/storage/gitlab/logs:/var/log/gitlab" - "/opt/storage/gitlab/data:/var/opt/gitlab" - "/gitlab/certs:/gitlab/certs"</pre> | | gitlab_rails['gitlab_default_projects_featu |
| <pre>25 nginx['real_ip_header'] = "X-Real-IP" 26 nginx['real_ip_recursive'] = "on" 27 nginx['listen_https'] = false 28 nginx['listen_port'] = 80 29 registry_nginx['ssl_certificate'] = "/gitla 30 registry_nginx['ssl_certificate_key'] = "/gitla 31 ports: 32 - "8081:80" 33 - "2224:22" 34 - "5000:5000" 35 volumes: 36 - "/opt/storage/gitlab/config:/etc/gitlab" 37 - "/opt/storage/gitlab/logs:/var/log/gitlab" 38 - "/opt/storage/gitlab/data:/var/opt/gitlab" 39 - "/gitlab/certs:/gitlab/certs"</pre> | 23 | gitlab rails['registry nath'] = "/ont/stor; |
| <pre>26 nginx['real_ip_nedact'] * * * * * * * * * * * * * * * * * * *</pre> | | nginx['real in header'] = "X-Real-TP" |
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| <pre>28 nginx['listen_port'] = 80 29 registry_nginx['ssl_certificate'] = "/gitla 30 registry_nginx['ssl_certificate_key'] = "/g 31 ports: 32 - "8081:80" 33 - "2224:22" 34 - "5000:5000" 35 volumes: 36 - "/opt/storage/gitlab/config:/etc/gitlab" 37 - "/opt/storage/gitlab/logs:/var/log/gitlab" 38 - "/opt/storage/gitlab/logs:/var/log/gitlab" 39 - "/gitlab/certs:/gitlab/certs"</pre> | 27 | nginx['listen https'] = false |
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| <pre>30</pre> | 29 | registry_nginx['ssl_certificate'] = "/gitla |
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| <pre>33 - "2224:22" 34 - "5000:5000" 35 volumes: 36 - "/opt/storage/gitlab/config:/etc/gitlab" 37 - "/opt/storage/gitlab/logs:/var/log/gitlab" 38 - "/opt/storage/gitlab/data:/var/opt/gitlab" 39 - "/gitlab/certs:/gitlab/certs"</pre> | 32 | - "8081:80" |
| <pre>34 - "5000:5000" 35 volumes: 36 - "/opt/storage/gitlab/config:/etc/gitlab" 37 - "/opt/storage/gitlab/logs:/var/log/gitlab" 38 - "/opt/storage/gitlab/data:/var/opt/gitlab" 39 - "/gitlab/certs:/gitlab/certs"</pre> | 33 | - "2224:22" |
| <pre>35 volumes: 36 - "/opt/storage/gitlab/config:/etc/gitlab" 37 - "/opt/storage/gitlab/logs:/var/log/gitlab" 38 - "/opt/storage/gitlab/data:/var/opt/gitlab" 39 - "/gitlab/certs:/gitlab/certs"</pre> | 34 | - "5000:5000" |
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| <pre>39 - "/gitlab/certs:/gitlab/certs"</pre> | 38 | - "/opt/storage/gitlab/data:/var/opt/gitlab" |
| | 39 | <pre>- "/gitlab/certs:/gitlab/certs"</pre> |

```
e.com'
istry.gitlab.example.com'
t'] = 2224
e"
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noreply@example.com"
xample_password"
mple.com"
] = ""
"true"
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000"
cts_features_container_registry'] = "true"
opt/storage/gitlab/gitlab-rails/shared/registry"
IP"
= "/gitlab/certs/fullchain.pem"
y'] = "/gitlab/certs/privkey.pem"
```


- Easy
- Multiple Environments on a single host
- Stability
- Reproducible
- Declarative / Infrastructure as Code

Single Host Deployments



CONTAINER ORCHESTRATION

















CONTAINER ORCHESTRATION

HONORABLE MENTION

<image><text>



Pacemaker









SPOILER ALERT, IT'S NOT A SINGLE TOOL

NOW, WHAT <u>IS</u> KUBERNETES?

| CNCF 1.0 | Cloud Native Landscape | Overwhelmed? Please see the CNCF Trail Map. Tha | | | |
|--------------------------------|--|---|---|---|--|
| i | | Streaming & Messaging | Application Definition & | mage Build | Continuous Integra |
| App Definition and Development | $ \begin{array}{c} \\ \hline \\ $ | | Image: CNCF Graduated Image: CNCF Graduated Image: CNCF Graduated Image: CNCF Incubating Imag | KubeVela KubeVit CNCF Incubating KubeVit CHEFF KubePlus Codezord Codezord Codezord Codezord <th>Image: Second second</th> | Image: Second |
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| Runtime | <image/> <complex-block><complex-block><complex-block><complex-block></complex-block></complex-block></complex-block></complex-block> | Image: Second | Image: Construct Construction Image: Construction Image: Construction Image: Const | Image: Second | Lima Sysbox CNCF Incubaing CNCF Incubaing |
| Provisioning | <section-header><section-header> Automation & Configuration Contai Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration I</section-header></section-header> | ner Registry | Security & Construction Security Security <th>Image: State Stat</th> <th>Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image <t< th=""></t<></th> | Image: State Stat | Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image <t< th=""></t<> |
| | | Kubernetes Certified Service Pro | vider | | Kubernetes Trainin |
| Special | | Classical alter vay Image: State alter vay Imag | $ \begin{array}{c} \\ \hline \\ $ | NUMERAL MASSARI Image: Massaria Massaria Image: Massaria | |



KUBERNETES DEFINES A SET OF BUILDING BLOCKS ("PRIMITIVES") THAT COLLECTIVELY PROVIDE MECHANISMS THAT DEPLOY, MAINTAIN, AND SCALE APPLICATIONS







| CNCF 1.0 | Cloud Native Landscape | Overwhelmed? Please see the CNCF Trail Map. Tha | | | |
|--------------------------------|--|---|---|---|--|
| i | | Streaming & Messaging | Application Definition & | mage Build | Continuous Integra |
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| Orchestration & Orchanagement | <complex-block><complex-block><complex-block><complex-block></complex-block></complex-block></complex-block></complex-block> | ation & Service scovery | Bervice Proxy Service Proxy Servic | Image: Constraint of the state of | Si Si Si Si Si Si Si Si Si Si |
| Runtime | <image/> <complex-block><complex-block><complex-block><complex-block></complex-block></complex-block></complex-block></complex-block> | Image: Second | Image: Construct Construction Image: Construction Image: Construction Image: Const | Image: Second | Lima Sysbox CNCF Incubaing CNCF Incubaing |
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BASIC KUBERNETES ARCHITECTURE





KUBERNETES





KUBERNETES

DISTRIBUTIONS

DEVELOPMENT



SINGLE NODE / EDGE

Xkops 6

PRODUCTION



DISTRIBUTIONS... CONTINUED...

ENTERPRISE











KUBERNETES





KUBERNETES, BUT WHEN?





IS KUBERNETES THE RIGHT CHOICE FOR **SERVING STATIC CONTENT?**





IS KUBERNETES THE RIGHT CHOICE FOR





IS KUBERNETES THE RIGHT CHOICE FOR PLANT / FACTORY / PHYSICAL SAFETY CONTROL SOFTWARE?





IS KUBERNETES THE RIGHT CHOICE FOR

ATEFUL WORKLOAD?








* when state is kept external (in



* when state is kept external (in a database cluster or object storage)

IS KUBERNETES THE RIGHT CHOICE FOR YOUR COMPANIES (LEGACY/ ENTERPRISE) JAVA APPLICATION?



- Improve density (in comparison to running each Application on a single host)
- Isolation (no JVM dependency chaos)
- State is probably (hopefully) stored somewhere else anyway

- It will not scale (better) than before
- Low utilization of Kubernetes native features

IS KUBERNETES THE RIGHT CHOICE FOR





- Running your services in a standardized way close to the consumer
- Distributed sync
- State can (and should) be stored centrally

- Managing multiple Kubernetes Clusters requires much more planning
- Multi-Cluster deployments are hard to facilitate
- Latency constraints for inter-cluster communication





IS KUBERNETES THE RIGHT CHOICE FOR **STATELESS MICRO-SERVICES?**







IS KUBERNETES THE RIGHT CHOICE FOR SERVERLESS COMPUTING?





* but you need additional software





DEFAULT TO KUBERNETES ONLY WHEN THERE'S NOT A BETTER OPTION FOR YOUR WORKLOADS







EVALUATE CAREFULLY

IS KUBERNETES REALLY THE RIGHT CHOICE FOR YOU?

- What are your functional infrastructure requirements?
- What are your scaling requirements?
- How do you handle state in your workload?
- Do you have the operational capacity to operate a Kubernetes cluster?

EVALUATE CAREFULLY

POSSIBLE ALTERNATIVES

- IaaS: Hetzner, Azure VMSS, AWS EC2
- PaaS: Heroku, Azure WebApps, AWS Elastic Beanstalk
- CaaS: DigitalOcean Droplets, Azure Container Instances, AWS Fargate FaaS: Azure Functions, AWS Lambda

KUBERNETES





KUBERNETES

DISTRIBUTIONS

DEVELOPMENT



SINGLE NODE / EDGE

PRODUCTION







GET STARTED WITH A DEV ENVIRONMENT

Make your first steps with "kind" on your local machine







SINGLE NODE-, EDGE-, (AND HOMELAB) DEPLOYMENT

- K3s on a single node is good enough for your home-lab
- Multi-node K3s is probably enough for most use-cases!
- Use a systemd service unit to keep k3s running
- Use the K3s Ansible Playbook



| ••• | de/ansible/k3s-ansible + |
|---------------------------------------|---|
| <pre> de la cec > bat ro</pre> | di@mae <mark>^ </mark> |
| | File: roles/k3s/master/templates/k3s.service |
| | <pre>[Unit] Description=Lightweight Kubernetes Documentation=https://k3s.io After=network-online.target [Service] Type=notify ExecStartPre=-/sbin/modprobe br_netfilter ExecStartPre=-/sbin/modprobe overlay ExecStart=/usr/local/bin/k3s serverdata-dir /var/lib/rancher/k3sflannel-backend=nonedisable-network-policyo traefik KillMode=process Delegate=yes # Having non-zero Limit*s causes performance problems due to accounting overhead # in the kernel. We recommend using cgroups to do container-local accounting. LimitMOFILE=1048576 LimitMPROC=infinity LimitCORE=infinity TimeoutStartSec=0 Restart=always RestartSec=5s</pre> |
| | [Install] WantedBy=multi-user.target |



IF YOU REALLY WANT TO GO ALL THE WAY

- Use the Cluster API
 - Declarative Management isn't just nice for workload but for entire clusters too
- Read the documentation of clustermgr
- Since most of you deploy to hetzner anyway
 - ccl.pw/cluster-api-hetzner
- This isn't gonna be easy! But we warned you :)















DEPLOY A WORKLOAD



POD



DEPLOY A WORKLOAD

MANAGING PODS





MANAGING PODS

(CORN) Jobs

DAEMON Set

STATEFUL SET



RUN A POD ONCE/RECURRING

RUN ONE POD ON EACH VM

DO MAGIC WITH THE POD





kubect

K ustomize.io



A WORD ON "KUBECTL APPLY -F" AND "HELM INSTALL"

PLEASE DON'T

* I mean, it's fine on dev. But certainly not on prod



DON'T INSTALL ANYTHING MANUALLY ON YOUR (PROD) CLUSTER

- Not reproducible
- Leads to "Snowflake" Deployments
- Hard to audit (what, when, and why?)
- Keeping a historical record of changes is hard
- Almost impossible to do proper secrets management

BUT HOW?

GT-OPS TO THE RESCUE







Deployment (clusters, apps)

GIT

Kubernetes GitOps

Monitoring Tracing Logging (Observability)

Management (operations)

DEPLOYMENT

- Continuous Delivery Pipeline applies configuration to **Kubernetes Cluster**
- Requires your CD Pipeline to have access to the Cluster
- Does not detect configuration drift

- GitOps Operator runs inside the **Kubernetes Cluster and pulls** changes from Git and applies them to the Cluster from the inside
- Requires the GitOps Operator to have access to the Repository
- Can detect configuration drift and revert manual changes





GIT-OPS



ARGO-CD

- Easy to use
- Declarative
- Nice looking management UI
- Easily extensible with your favorite secret management solution
- Avoid config drift
 - reconcile loop can roll-back manual changes automatically







GIT-OPS





SECRET MANAGEMENT

GIT-CRYPT

- Encrypts whole files
- Based on PGP
- Git-Diff won't work at all

MOZILLA SOPS

- Encrypts only YAML Value
- Can use a multitude of credential providers and encryption methods (PGP, AGE, Vault, ...)
- Git-diff works (to some extent)

| <pre>devk8s/k8s-manifest +devk8s/k8s-manifests ()mains (-7.81) . bat kustomize/overlays/argocd/oauth-credentials.secret.yamldevk8s/k8s-manifests ()mains (-7.81) . bat kustomize/overlays/argocd/oauth-credentials.secret.yamldevk8s/k8s-manifests ()mains (-7.81) . bat kustomize/overlays/argocd/oauth-credentials.secret.yamldevk8s/k8s-manifests ()mains (-7.81)devk8s/k8s-manifests (-7.81)devk8s/k8s-manifests(-7.81)devk</pre> | | |
|--|----------|--|
| <pre> cediamae //src/codi/codi/cov/k8s/k8s=manifests //mains // all bat kustomize/overlays/argocd/oauth-credentials.secret.yaml File: kustomize/overlays/argocd/oauth-credentials.secret.yaml i apiVersion: v1 kind: Secret type: Opaque metadata: namespace: argocd anotations: kustomize.orfig.k8s.io/behavior: replace stringData: dex.oauth.github.clientID: ENC[AES256_GCM,data:wfBycZqV9Zu0TITH2E+d dex.oauth.github.clientID: ENC[AES256_GCM,data:wfBycZqV9Zu0TITH2E+d dex.oauth.github.clientSecret: ENC[AES256_GCM,data:rjuLmezWZqhobtUK: q2wKkhy4Gu09IegE7Sq=,type:str] sops: kms: [] gcp.kms: [] gcp.kms: [] recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkaks on:: EEGIN AGE ENCRYPTED FILE YWdlLWVV3J5cHRpD24ub3JnL3YxCi0+IFgyNTUxOSBvZVvRMUZSaESBbzI: TreF0TRH0XyNUJ142FERJavCUXFUKGMMy8btOkEst14M3RGgh/Kserz88 ox:: EEGIN AGE ENCRYPTED FILE YWdlLWVV3J5cHRpD24ub3JnL3YxCi0+IFgyNTUxOSBsZV2VRMUZSaESBbzI: EDGIN AGE ENCRYPTED FILE YWdlLWVV3J5cHRpD24ub3JnL3YxCi0+IFgyNTUxOSBsZV2VRMUZSaESBbzI: EDGIN AGE ENCRYPTED FILE YWdlLWVX3J5cHRpD24ub3JnL3YxCi0+IFgyNTUxOSBsZV2NRMUZSaESBbzI: EDGIN AGE ENCRYPTED FILE YWdlLWVX3J5cHRpD24ub3JnL3YxCi0+IFgyNTUxOSBSZV2RDBVURGcjBB EDGIN AGE ENCRYPTED FILE YWdlLWVX3J5cHRpD24ub3JnL3YxCi0+IFgyNTUxOSBSZV2RDBVURGcjBB EDGIN AGE ENCRYPTED FILE YWdlLWVX3J5cHRpD24ub3JnL3YxCi0+IFgyNTUxOSBSZV2RDBVURGcjBB END AGE ENCRYPTED FILE YWdLWVX3J5cHRpD24ub3JnL3YxCi0+IFgyNTUxOSBSZV2RDBVURGcjBB T3p4b2lwMTv4sk14UVRSRdDZUSud5tD1YJZCMYsGJMAVTh2BY-IMAVIXES MxdnqWNNxBFY jBSVTf1aEVEYJSMK4AgApACT0JZ7/STBXXFD1B0EGJNA+CA42= END AGE ENCRYPTED FILE</pre> | ••• | dev/k8s/k8s-manifests + |
| <pre>> bat kustomize/overlays/argocd/oauth-credentials.secret.yaml File: kustomize/overlays/argocd/oauth-credentials.secret.yaml apiVersion: v1 kind: Secret type: Opaque metadata: name: argocd-secret namespace: argocd anotations: kustomize.config.k8s.io/behavior: replace stringData: dex.oauth.github.clientD: ENC[AES256_GCM,data:wfBycZqV9ZuOTTH2E+4 dex.oauth.github.clientSecret: ENC[AES256_GCM,data:rjuLmezWZqhobtUKa q2wXKhy4Gu09IeqE7SQ==,type:str] sops: kms: [] gcg_kms: [] age: - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkaka enc: [BEGIN AGE ENCRYPTED FILE YwdlLWuv3J5GHpB2AuB3Jn13xxCi0+IFgyNTuxOSBvZVVRMuZSaESBbzI' Tereipient: age10hzv26wex1204acftvf2n8r6hmnnwxdpkngzaysllpwynd enc: [ENG AGE ENCRYPTED FILE YwdlLWuv3J5GHpB2AuB3Jn13xxCi0+IFgyNTuxOSBsZVVRMuZsaESBbzI' Tereipient: age10hzv26wex1204acftvf2n8r6hmnnwxdpkngzaysllpwynd enc: [ENG AGE ENCRYPTED FILE YwdlLWuv3J5GHpB2AuB3Jn13xxCi0+IFgyNTuxOSBsZVVRMUZcaESBbzI' Tereipient: age10hzv26wex1204acftvf2n8r6hmnnwxdpkngzaysllpwynd enc: [END AGE ENCRYPTED FILE YwdlLWuv3J5GHpB2AuB3Jn13xxCi0+IFgyNTuxOSBSZVB2DBVURG; axx5LB0HU043p+xTAUvaklyZqp4WckPnASxi5JEU+4tAm88i7yIrg= END AGE ENCRYPTED FILE YwdlLWuv3J5GHp52uB3Jn13xxCi0+IFgyNTuxOSBSZVB2DBVURG; axx6diffied: "2023-05-01T19:04:272" mac: ENC[AES25_GCM,data:CXKhB04VNCAQ20uA6PaHDSaJn3HzVkQ96Zkq1Vp2; fNS8qf4Lr5nsKs1MaXsAypACT02JZ7" mac: ENC[AES25_GCM,data:CXKhB04VNCAQ20uA6PaHDSaJn3HzVkQ96Zkq1Vp2; fNS8qf4Lr5nsKs1MaXsAypACT02JZ7" mac: ENC[AES25_GCM,data:CXKhB04VNCAQ20uA6PaHDSaJn3HzVkQ96Zkq1Vp2; fShSef4Lr5nsKs1MaXsAypACT02JZ7" mac: ENC[AES25_GCM,data:CXKhB04VNCAQ20uA6PaHDSaJn3HzVkQ96Zkq1Vp2; fShSef4Lr5nsKs1MaXsAypACT02JZ7" mac: ENC[AES25_</pre> | 🛋 🔪 ced | li∂mae ~/src/cedi/cedi.dev/k8s/k8s-manifests O⊍main≣ [Z-7 日 1 |
| <pre>File: kustomize/overlays/argocd/oauth-credentials.secret.yaml apiVersion: v1 kind: Secret type: Opaque metadata: names argocd-secret namespace: argocd annotations: kustomize.config.k8s.io/behavior: replace stringData: kustomize.config.k8s.io/behavior: replace stringData: kustomize.config.k8s.io/behavior: replace stringData: kes.auth.github.clientDo: ENC[AES256_GCM,data:rjuLmezWZqhobtUK3 qwkKhy4Gu09IcedESQ==,type:str] sops: kms: [] gcp_kms: [] age: - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkako enc: YwdlLWWv335cHRpD2Aub3DL3YxCi0+IFgyNTUXOSBYZVVRMUZ8aESBbz71 MEdkakZPUXZLV9KUH3L4kFBNA2VCKEthASxiJLOUM Ue5sZHvoL0w2SHgyeUNAdmRqcAAldTCKL5ofIDZZUXndnVzcXV3WLQwcCt TXFBTIRHOXYpMJ3JScHRpD2Aub3JAYzCi0+IFgyNTUXOSBSZVB2RDBVUURGcjBM TayAb2IuMTV4sK14UVR5RGd2ZUSudsTDY1ZGurMsGTMSE3SUBAPAUNAKS wtSLE0HUA3JScHRpD2Aub3JAXCi0+IFgyNTUXOSBSZVB2RDBVUURGcjBM TayAb2IuMTV4sK14UVR5RGd2ZUSudsTDY1ZGurMsGTMSE3SUBAPAUNKS wtSLE0HUA3JScHRpD2Aub3JAXCi0+IFgyNTUXOSBSZVB2RDBVUURGcjBM TayAb2IuMTV4sK14UVR5RGd2ZUSUdsUD1Y2SUTM4sGTMS2APA</pre> | > bat ku | istomize/overlays/argocd/oauth-credentials.secret.yaml |
| <pre>apiVersion: v1 kind: Secret type: Opaque metadata: name: argocd-secret namespace: argocd annotations: kustomize.config.k8s.io/behavior: replace stringData: dex.oauth.github.clientID: ENC[AES256_GCM,data:wfBycZqV9Zu0lTlTH2E+d dex.oauth.github.clientID: ENC[AES256_GCM,data:rjuLmezWZqhobtUKa g2wXKhy4Gu9DegTSQ==,type:str] sops: kms: [] gcp_kms: [] gcp_kms: [] azure_kv: [] hc_vault: [] age:</pre> | | File: kustomize/overlays/argocd/oauth-credentials.secret.yaml |
| <pre>dyntriston ti type: Opaque metadata: namespace: argocd anotations: kustomize.config.k8s.io/behavior: replace stringData: dex.oauth.github.clientID: ENC[AES256_GCM,data:wfBycZqV9Zu0lTlTH2E+4 dex.oauth.github.clientID: ENC[AES256_GCM,data:rjuLmezWZqhobtUK: q2wKNy4Gu09IeqE7SQ==,type:str] sops: kms: [] gcp_kms: [] gcp_kms: [] recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkakr enc: BEGIN AGE ENCRYPTED FILE Ywd1LWUv3J5cHRpb24ub3JnL3Yxci0+IFgyNTUxOSBvZVVRMUZSaESBbz1 MEdkakZPUxZLLy9KUHJIckF0N2RZK1R0WUU0CL2PawkzY3hD2KE3NXJLOUME U05sZHvoL0w2SHgyeUNRdmRqcXAldTQKLS0tIDZ2UvANU2XaESMbz1; TXF0TIRHOXVPNJ34ZFBRT3VCUXFWcGMKoMy8ADK8Et14N3RGgh/6kerrzg EBGIN AGE ENCRYPTED FILE Ywd1LWUv3J5cHRpb24ub3JnL3Yxci0+IFgyNTUxOSBvZVVRMUZSaESBbz1; MEdkakZPUxZLLy9KUHJIckF0N2RZK1R0WUU0CL2PawkzY3hD2KE3NXJLOUME U05sZHvoL0w2SHgyeUNRdmRqcXAldTQKLS0tIDZ2UvANU2xV3UQweCL TXF0TIRHOXVPNJ34ZFBRT3VCUXFWcGMKoMy8ADK8Et14N3RGgh/6kerrzg oxKJEU0HUQ43p+xTAUvaKlyZqp4WCktPnASxi5JEU+4tAm88i7yIrg== EBGIN AGE ENCRYPTED FILE recipient: age10hzpvZ6wex1204acftvf2n8r6hmnnwxdpkngzaysllpwynd enc: BEGIN AGE ENCRYPTED FILE Ywd1LWUv3J5cHRpb2Aub3JnL3YxCi0+IFgyNTUxOSBSZVB2RDBVUURGcjBM T3p4b2LWMTv4Sh14VVR5RddDzUbJdAtJrDrSbSZVB2RDBVUURGcjBM T3p4b2LWMTv4Sh14VVR5RddDzUbJdAtJrDr1BgWTUxSBSZVB2RDBVUURGcjBM T3p4b2LWMTv4Sh14VVR5RdDzUbJdAtJrDr1BgWTUxSBSZVB2RDBVURGcjBM T3p4b2LWMTv4Sh14VVR5RdDzUbJdAtJrDr1BgWTUxSBSZVB2RDBVURGcjBM T3p4b2LWMTv4Sh14VVR5RdDzUbJdAtJrDr1BgWTUxSBSZVB2RDBVURGcjBM T3p4b2LWMTv4Sh14VVR5RdDzUbJdAtDr13gVr2FxTTMxN24zRks:</pre> | | aniVersion• v1 |
| <pre>type: Opaque metadata: name: argocd-secret namespace: argocd annotations: kustomize.config.k8s.io/behavior: replace stringData: dex.oauth.github.clientID: ENC[AES256_GCM,data:wfBycZqV92u0lTlTH2E+c dex.oauth.github.clientSecret: ENC[AES256_GCM,data:rjuLmezWZqhobtUK q2wKkhy4Gu09IeqE7SQ==,type:str] sops: kms: [] gcp_kms: [] kms: [] gcp_kms: [] azure_kv: [] h_vault: [] age:</pre> | | kind: Secret |
| <pre>metadata: name: argocd-secret namespace: argocd annotations: kustomize.config.k8s.io/behavior: replace stringData: dex.oauth.github.clientID: ENC[AES256_GCM,data:wfBycZqV9Zu0lTlTH2E+cd dex.oauth.github.clientSecret: ENC[AES256_GCM,data:rjuLmezWZqhobtUK: q2wKhy4Gu99IeqE7SQ==,type:str] sops: kms: [] gcp_kms: [] azure_kv: [] hc_vault: [] age: - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkaku enc: BEGIN AGE ENCRYPTED FILE YWdlLWVuY3J5cHRpb24ub3JnL3YxC10+IFgyNTUxOSBvZVVRMUZSaE5BbzI: MedkakZPUXZLL9KUA1UvCKF0M2ZK1AT0WUU0C1ZPAWkzY3hDZkE3NX1L0UW U05SZHVOL0w2SHgeUNRdmRgcXA1dTQKLS0t1D22ZUxndhv2cXV3W[dwcCt: TXF0T1RH0XVpN1J4ZFBRT3VCUXFWcGMKoMy8xDCk8Et14N3RGgh/6kerr280 oXXJEU0HUQ43p+xTAUvak1yZqp4WCKtPnA5x15JEU+4tAm8817yIrg= EBGIN AGE ENCRYPTED FILE recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwynd enc: BEGIN AGE ENCRYPTED FILE YWdlLWVuY3J5cHRpb24ub3JnL3YxC10+IFgyNTUxOSB5ZVB2RDBVUURGcjBM T3p4b2lwMTV45k14UVRSRGdDZUSud5tD1V3CmV5cGMSH1b22JHA01Yk5] MkdnqWnNb8FPj5BWTdaIEVEVj5BFKI5SUF1HBT5T1vtzTHXN2A2Rks: OVkwTlkxQ2ZlbSsyTEZsVkwweFM4bncKaJyu2l0Ie4+JC4EC4YPY1yvZP2+4 fNSBqf4LrF3NKs1WJASAypACT032p/3fBuXf0+18QQ7aEE8D+CAA==</pre> | | type: Opaque |
| <pre>name: argocd-secret namespace: argocd annotations: kustomize.config.k8s.io/behavior: replace stringData: dex.oauth.github.clientID: ENC[AES256_GCM,data:wfBycZqV9Zu0lTlTH2E+d dex.oauth.github.clientSecret: ENC[AES256_GCM,data:rjuLmezWZqhobtUKa q2wXKhy4Gu09IeqE7SQ==,type:str] sops: kms: [] gcp_kms: [] age: - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkaki enc: BEGIN AGE ENCRYPTED FILE WulluWuY335cHRpb2Aub3JnL3YxC10+IFgyNTUxOSBvZVVRMUZSaE5Bbz1? MEdkakZPUXZLL9KHJICkF0M2RXtRDWUUGC1ZPaWkzY3hDZkE3NXJLOUMU U05SZHV0L0W2SHgveUNRdmRqcXAldTQKL5NtIDZ2ZUxndhV2cxV3WLQweCt: TXF6TIRH0XYpN1J4ZFBRT3VCUXFWcGMKcMy4xDck8Et14N3R6gh/6kerr28d oXKJEU0HUQ43p+xTAUvaklyZqp4WCktPnASxi5JEU+4tAm88i7yIrg=EBGIN AGE ENCRYPTED FILE WulluWuY335cHRpb2Aub3JnL3YxC10+IFgyNTUxOSBsZVB2RDBVUURGcjBM T3p4b2lwMTV4SK14UVRSRGdDZUSudstDV1V3CmV5cGMSHIvb2JHaV01Kp3 MkdnQWhNbZBFYjBSWTd1aEVEVj3DFKELS0tHHBTSTJtYZFXTMxN24ZRks3 OVkwTLkQz2LbSsyTE2sVkwweFM4bncKaJyu2l01e4+JC4EC4PPVjvZP2+ fNS8qf4LrF3nKs1WJASxAypACT032p/3fBuXf0-18QQ7aEEBb+CAA==EBD AGE ENCRYPTED FILE lastmodified: "2023-05-01T19:04:27Z" mac: ENC[AES256_GCM,data:CKXh18u4vNCAQ20uA6PaH5SaJn3tHZVkQ962Kq1PDs; 99DGnXMYj5NWPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxKW/lqw47nzDJGvQFNtp14 pgp: [] encrypted_regex: ^(data stringData spec bot_token chat_id)\$</pre> | | metadata: |
| <pre>6 namespace: argocd annotations: kustomize.config.k8s.io/behavior: replace 9 stringData: 10 dex.oauth.github.clientID: ENC[AES256_GCM,data:wfBycZqV9ZuOlTITH2E+d dex.oauth.github.clientSecret: ENC[AES256_GCM,data:rjuLmezWZqhobtUKa q2wXKhy4Gu09IeqE7SQ==,type:str] 12 sops: 13 kms: [] 14 gcp_kms: [] 15 azure_kv: [] 16 hc_vault: [] 17 age: 17 recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkaku enc: 18 enc: 19 enc: 10 enc: 10 enc: 10 enc: 10 enc: 10 enc: 10 enc: 11 ft attribute for the for the</pre> | | name: argocd-secret |
| <pre>annotations: kustomize.config.k8s.io/behavior: replace stringData: dex.oauth.github.clientID: ENC[AES256_GCM,data:wfBycZqV9Zu0lTlTH2E+4 dex.oauth.github.clientSecret: ENC[AES256_GCM,data:rjuLmezWZqhobtUKa qZwKhyk6u09IeqE7SQ==,type:str] sops: kms: [] gcp_kms: [] azure_kv: [] hc_vault: [] age: - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkaki enc: BEGIN AGE ENCRYPTED FILE WdlLWuV335cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBvZVVRMUZSaE5BbzI' MEdkakZPUXZLL9KUHJIckF0N2RZK1RDWUU0ClZPaWkzY3hDZkE3NXJLOUM3 U05sZHV0L0w2ShgyeURdmRqcXAldTqKLS0tIDZ2UXndrV2cXV3WlQweCt' TXF0TIRH0XVpN1J4ZFBRT3VCUXFWcGMKoMy8xDcK8Etl4N3R6gh/6kerz80 oXKJEU0HUQ43p+xTAUvakLyZqp4WCktPnASx15JEU+4tAm8Bi7yIrg== END AGE ENCRYPTED FILE YwdLLWUV335cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBSZVB2RDBVUURGcjBM T3p4b2JuMTV4SH4UVRSRGdDZJ0JdStD1V3CmV5cGJWSHIvb2JHav01Vk5J MkdnQWNhNzBFYjBSWTd1aEVEVjJ5MFEKLS0tIHBTSTJtYzFXTTMxN24zRks: OVKwTlkxQz2IbSsyTEZ2VkwweFMAbncKaJyu2I0e4+JC4EC4YPY1yvZP2+) fNS8qf4LrF3nKs1W1A5xAypACT0J2p/3fBuZh04Pd2Kq1YpsZ Mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962Kq1YpsZ 99DGnxMYj5hNwPFDDzgce2aNqFusfhsg=,iv:3Lew0xiu2hiyxKW/lqw47nzDJ6vQFNtp14 pgp: [] encrypted_regex: ^(data]stringData]speclbot_tokenlchat_id)\$ version: 3.7.2</pre> | | namespace: argocd |
| <pre>kustomize.config.k8s.io/behavior: replace stringData: dex.oauth.github.clientID: ENC[AES256_GCM,data:wfBycZqV9ZuOlTlTH2E+c dex.oauth.github.clientSecret: ENC[AES256_GCM,data:rjuLmezWZqhobtUKa q2wXKhy4Gu09leqE7SQ==,type:str] sops: kms: [] gcp_kms: [] azure_kv: [] hc_vault: [] age: - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkaki enc: B6GIN AGE ENCRYPTED FILE YWdLUWVY3J5cHRpb24ub3JnL3YxC10+IFgyNTUxOSBvZVVRMUZSaESBbzII McdkakzPUX2LU9KUHJIckF0402RXtRDWUU0Cl2PaWkzY3hDzkE3NXJL0UMS U05sZHVoL0w2SHgyeUNRdmRqcXAldTQKLS0tID22ZUxndrV2cXV3WLQweCti TXF0TIRH0XVpN1J4ZFBRT3VCUXFWcGMKoMy8DCK8Et14N3RGgh/6kerz8G 0KXJEU0HUQ43p+xTAUvakLyZqp4WCktPnASx15JEU+4tAm88i7yIrg=</pre> | | annotations: |
| <pre>stringData: dex.oauth.github.clientID: ENC[AES256_GCM,data:wfBycZqV9Zu0lTlTH2E+4 dex.oauth.github.clientSecret: ENC[AES256_GCM,data:rjuLmezWZqhobtUKa q2wXKhy4Gu09IeqE7SQ==,type:str] sops: kms: [] gcp_kms: [] azure_kv: [] hc_vault: [] age: - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkaka enc: BEGIN AGE ENCRYPTED FILE YWd1LWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBvZVVRMUZSaE5BbzI: MEdkakZPUZ1Ly9KUHJIckF0NZRXtROWUU0C1ZPaWkzY3hDZkE3NXJLOUMS U05sZHVoL0w2SHgyeUNRdmqcXA1dTQKLS0fIDZ2UxdnVzCxV3WlQweCt: TXF0T1RH0XVpN1J4ZFBRT3VCUXFwcGMKoMy&xDCk8Et14N3RGgh/6kerrz& oXKJEU0HUQ43p+xTAUvaklyZqp4WCktPnASxi5JEU+4tAm88i7yIrg= END AGE ENCRYPTED FILE YWd1LWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBsZVB2RDBVUURGcjBM T3p4b2lwMTV4sk14UVRSRGdD2U5udstDY1V3CNV5G5ZW82RDBVUURGcjBM T3p4b2lwMTV4sk14UVRSRGdD2U5udstDY1V3CNV5G5ZW82RDBVUURGcjBM T3p4b2lwMTV4sk14UVRSRGdD2U5udstDY1V3CNV5G5ZW82RDBVUURGcjBM T3p4b2lwMTV4sk14UVRSRGdD2U5udstDY1V3CNV5G5ZW82RDBVUURGcjBM T3p4b2lwMTV4sk14UVRSRGdD2U5udstDY1V3CNV5G5ZW82RDBVUURGcjBM T3p4b2lwMTV4sk14UVRSRGdD2U5udstDY1V3CNV5G5ZW82RDBVUURGcjBM T3p4b2lwMTV4sk14UVRSRGdD2U5udstDY1V3CNV5G5ZW82RDBVUURGcjBM T3p4b2lwMTV4sk14UVRSRGdD2U5udstDY1V3CNV5G5ZW82RDBVUURGcjBM T3p4b2lwMTV4sk14UVRSRGdD2U5udstDY1V3CNV5G5ZW82RDBVUURGcjBM T3p4b2lwMTV4sk14UVRSRGdD2U5udstDY143CN4F18QQy7aEE8D+CAA==</pre> | | kustomize.config.k8s.io/behavior: replace |
| <pre>dex.oauth.github.clientID: ENC[AE5256_GCM, data:WTByC2dy92U0UTTH2E4 dex.oauth.github.clientISecret: ENC[AE5256_GCM, data:rjuLmezWZqhobtUK; q2wXKhy4Gu09IeqE7SQ==,type:str] sops: kms: [] gcp_kms: [] azure_kv: [] hc_vault: [] age: - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkak; enc: BEGIN AGE ENCRYPTED FILE YWd1LWVuY3J5cHRp524ub3JnL3YxCi0+IFgyNTUxOSBvZVVRMUZSaE58bzI: MEdkakzPUXZlLy9KUHJIckF0N2RZK1RWUU0C1ZPaWkzY3hDZkE3NXJL0UW U05sZHVoL0w2SHgyeUNRdmRqcXA1dTQKLS0tIDZ2ZUxndnV2cXV3WlQweCt: TXF0T1RH0XVpN1J4ZFBRT3VCUXFWcGMKoMy8NDCk8E1t4N3R6gh/6kerrz8G oXXJEU0HUQ43p+xTAUvaklyZqp4WCktPnASxi5JEU+4tAm88i7yIrg= END AGE ENCRYPTED FILE recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwynd enc: BEGIN AGE ENCRYPTED FILE YWd1LWVuY3J5cHRp524ub3JnL3YxCi0+IFgyNTUxOSBSZVB2RDBVUURGcjBM T3p4b2lwMTV4Sk14UVR5RGdDZU5udStDY1V3CmV5cGJwSHIvbzJHaVo1Yk5I MkdnQWNhNzBFYjBSWTd1aEVEyjJSMFEKLS0tHBTSTJYzFxTTMXN24zRks3 OVkwTlkQz2lb5yTEZ5VKwweFMAhckaJyu2l0Ie4+J.C4EC4YPYlyV2P2+</pre> | | stringData: |
| <pre>dex.vdudth.gitthub.cttelntSetTett: Pw[AE3236_GCM, data:Fjulmezw2qh0btoke g2wXKhy4Gu09IeqE7SQ==,type:str] sops: kms: [] gcp_kms: [] azure_kv: [] hc_vault: [] age: - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkaki enc: BEGIN AGE ENCRYPTED FILE YwdlLWVu3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBvZVVRMUZSaE5BbzI7 MEdkaX2PUXZlLy9KuHJCkF0N2RX4RDWUU0Cl2PaWkzY3hDZKE3NXJLOUM U05sZHVoL0w2SHgyeUNRdmRqcXAldTQKLS0tIDZ2ZUxndnV2cXV3WlQweCt1 TXF0TIRHOXVpN1J4ZFBRT3VCUXFWcGMK0My8xDCK8Et14N3RGgh/6kerrz80 oXKJEU0HUQ43p+xTAUvaklyZqp4WCktPnASxi5JEU+4tAm88i7yIrg= END AGE ENCRYPTED FILE recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwynd enc: BEGIN AGE ENCRYPTED FILE YwdlLWVu3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBSZVB2RDBVUURGcjBM T3p4b2lwMTV4Sk14UVR5RGdDZU5udstDY1V3CmV5cGJWSHIvbzJHaV01Yk5I MkdnqWNhWzBFYjBSWTd1aEVEVjJ5MFEKLS0HIHBTSTJtYzFxTTMxW24zRks5 OVkwTlkxQzZlbSsyTEZsVkwweFM4bncKaJyu2l0Ie4+JC4EC4YPYlyvZPz+) fNS8qf4LrF3nkS1W1A5xAypACT0J2p/3FBuXfD+18QQ7aEE8D+CAA= END AGE ENCRYPTED FILE lastmodified: "2023-05-01T19:04:27Z" mac: ENC[AE5256_GCM, data:CXKh18u4vNCAQ20uA6PaHD5aJn3tHZvkQ962Kq1VD55 99DGnxMYj5hNwPFDbzkgCe2aNqFu5fhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtp1 pgp: [] encrypted_regex: ^(data stringData spec bot_token chat_id)\$ version: 3.7.2</pre> | | dex.oautn.gltnub.cllentID: ENCLAES256_GCM,data:wTBycZqV9ZuULILIH2E+C |
| <pre>sops: kms: [] gcp_kms: [] azure_kv: [] hc_vault: [] age: - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkakn enc: - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkakn enc: - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkakn enc: - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkakn u05szHv0L0w2SHgyeUNRdmgcX1dTQKL5tIDZ2ZUxndV2cXV3WlQweCt: TXF0FJRHQXyMJJ4zFBRT3VCUXFWcGMK0My8xDCK8Et14N3Rgbh/6kerrz8d oXKJEU0HUQ43p+xTAUvaklyZqp4WCktPnASxi5JEU+4tAm88i7yIrg= END AGE ENCRYPTED FILE ? recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwynd enc: BEGIN AGE ENCRYPTED FILE YWdlLWVu3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBSZVB2RDBVUURGcjBM T3p4b2lwMTV4Sk14UVR5RGdD2U5d5tDY12CmV5cGJWSH1vbzJHaV01Yk5 MkdnQWNhv2BFyjBSWTd1aEVEVjJ5MFEKLS0tIHBTSJ1Y2FxTTMxN24zRks: OVKwTLkxQz1bSsyTE2sVkwweFM4bncKaJyu20fe4+JC4EC4YPYLyv2P2++ fN58qf4LrF3nKs1W1A5xAypACT0JZp/3fBuXfD+18QQy7aEE8D+CAA= END AGE ENCRYPTED FILE lastmodified: "2023-05-01T19:04:277" mac: ENC[AES256_GCM,data:CXKh18u4VNCAQ20uA6PaHDSaJn3HZVkQ962Kq1YD5i 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtp14 pgp: [] encrypted_regex: ^(data stringData spec bot_token chat_id)\$ version: 3.7.2</pre> | | a2wXKby/Gu09TegE7SO== type·str] |
| <pre>kms: [] kms: [] k</pre> | | sons: |
| <pre>44 gcp_kms: [] 45 azure_kv: [] 46 hc_vault: [] 47 age: 48 - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkakn 49 enc: 40BEGIN AGE ENCRYPTED FILE 40 YWdlLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBvZVVRMUZSaE5BbzI 40 MEdkakZPUXZLL98kUHJIckF0N2RZk1RDWUU0CLZPaWkzY3hDZkE3NXJL0UM 40 055ZHVoL0w2SHgyeUNRdmRqcXA1dTQKLS0tIDZ2ZUxndnV2cXV3WlQweCt 40 TXF0T1RH0XVpN1J4ZFBRT3VCUXFWcGMKoMy8xDCk8Etl4N3RGgh/6kerrz80 40 0XKJEU0HUQ43p+xTAUvaklyZqp4WCktPnA5x15JEU+4tAm88i7yIrg= 40END AGE ENCRYPTED FILE 41END AGE ENCRYPTED FILE 42 - recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwynd 43 enc: 44END AGE ENCRYPTED FILE 45 - recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwynd 45END AGE ENCRYPTED FILE 46</pre> | | kms: [] |
| <pre>15 azure_kv: [] 16 hc_vault: [] 17 age: 18 - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkakn 19 enc: 10BEGIN AGE ENCRYPTED FILE 21 YWdlLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBvZVVRMUZSaE5BbzI: 22 MEdkakZPUXZLLy9KUHJIckF0N2RZK1RDWUU0Cl2PaWkzY3bDZkE3NXJLOUM2 23 U05sZHVoL0w2SHgyeUNRdmRqcXAldTQKLS0tIDZ2ZUxndnV2cXV3WlQweCt: 24 TXF0T1RHOXVpN1J4ZFBRT3VCUXFWcGMKoMy8xDCk8Etl4N3RGgh/6kerr280 25 oXKJEU0HUQ43p+xTAUvaklyZqp4WCktPnA5xi5JEU+4tAm88i7yIrg== 26END AGE ENCRYPTED FILE 27 - recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwynd 28 enc: 29BEGIN AGE ENCRYPTED FILE 27 YWdLLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSB5ZVB2RDBVUURGcjBM 28 T3p4b2lwMTV4sk14UVR5RGdDZU5udstDY1V3CmV5cGJWSHIvbzJHaV01Yk5U 29 MkdnQWNhNzBFYjBSWTd1aEVEVjJ5MFEKLS0tIHBTSTJtYzFxTTMxN24zRks: 33 OVkwTlkxQzZtDSsyTEZsVkwweFM4bncKaJyu2l0Te4+JC4EC4YPYlyZP2+4 34 fN58qf4LrF3nKs1W1A5xAypACT0J2p/3fBuXfD+18QQy7aEE8D+CAA==END AGE ENCRYPTED FILE 35 lastmodified: "2023-05-01T19:04:27Z" 37 mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962KqlYDs: 38 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtpl1 39 encrypted_regex: ^(data stringData spec bot_token chat_id)\$ 34 version: 3.7.2 35</pre> | | gcp kms: [] |
| <pre>hc_vault: [] age:</pre> | | azure_kv: [] |
| <pre>17 age: 18 - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkaka 19BEGIN AGE ENCRYPTED FILE 10 YWdlLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBvZVVRMUZSaE5BbzI 20 MEdkakZPUXZlLy9KUHJIckF0N2RZK1RDWUU0ClZPaWkzY3hDZkE3NXJL0UM3 20 U05sZHVoL0w2SHgyeUNRdmRqcXA1dTQKLS0tIDZ2ZUxndnV2cXV3WlQweCt 24 TXF0T1RHOXVpN1J4ZFBRT3VCUXFWcGMKoMy8xDCk8Etl4N3RGgh/6kerrz8G 25 OXKJEU0HUQ43p+xTAUvaklyZqp4WCktPnASxi5JEU+4tAm88i7yIrg== 26END AGE ENCRYPTED FILE 27 recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwynd 29BEGIN AGE ENCRYPTED FILE 29 YWdlLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBSZVB2RDBVUURGcjBM 29 T3p4b2lwMTV4sk14UVRSRGdDZU5ud3tDY1V3CmV5cG3WSHIvbzJHaVo1Yk5I 20 MkdnQWNhvZBFYjBSWTd1aEVEVjJ5MFEKLS0tIHBTSTJtYzFxTTMxN24zRks2 20 OVkwTlkxQzZlbSsyTEZsVkwweFM4bncKaJyu2l0Ie4+JC4EC4PYlyvZPz+ 29 fN58qf4LrF3nKsIW1A5xAypACT0J2p/3fBuXfD+18QQy7aEE8D+CAA== 29END AGE ENCRYPTED FILE 20 lastmodified: "2023-05-01T19:04:27Z" 29 mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962KqlYD53 29 g9DGnxMyj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtpl1 29 pgp: [] 29 encrypted_regex: ^(data stringData spec bot_token chat_id)\$ 20 version: 3.7.2</pre> | | hc_vault: [] |
| <pre>- recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkaki enc: BEGIN AGE ENCRYPTED FILE YWd1LWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBvZVVRMUZSaE5BbZ1 MEdkakZPUXZ1Ly9KUHJIckF0N2RZK1RDWUU0Cl2PaWkzY3hDZkE3NXJL0UM U05sZHVoL0w2SHgyeUNRdmRqcXA1dTQKLS0tIDZ2ZUxndnV2cXV3WlQweCt: TXF0T1RH0XVpN1J4ZFBRT3VCUXFWcGMKoMy8xDCk8Etl4N3RGgh/6kerrz80 oXKJEU0HUQ43p+xTAUvaklyZqp4WCktPnASxi5JEU+4tAm88i7yIrg== END AGE ENCRYPTED FILE recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwynd enc: BEGIN AGE ENCRYPTED FILE YWd1LWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBSZVB2RDBVUURGcjBM T3p4b2lwMTV4Sk14UVRSRGdDZU5ud5tDY1V3CmV5cGJWSHIvbzJHaV01Yk5I MkdnQWNhNzBFYjBSWTd1aEVEVjJSMFEKLS0tIHBTSTJtYzFxTTMxN24zRks3 OVkwTlkxQzZlbSsyTEZsVkwweFM4bncKaJyu2l0Ie4+JC4EC4YPYlyvZPz+) fN58qf4LrF3nKs1W1A5XxAypACT0JZp/3fBuXfD+18QQy7aEE8D+CAA== END AGE ENCRYPTED FILE lastmodified: "2023-05-01T19:04:27Z" mac: ENC[AE5256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962Kq1YD53 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtp1 pgp: [] encrypted_regex: ^(data stringData spec bot_token chat_id)\$ version: 3.7.2</pre> | | age: |
| <pre>enc: </pre> | | - recipient: age1r9chn8pl3d4msxktw457x3xz2l8p04pwuyd7pkgldkmkakr |
| <pre>20BEGIN AGE ENCRYPTED FILE 21 YWdlLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBvZVVRMUZSaE5BbzI7 22 MEdkakZPUXZlLy9KUHJIckF0N2RXK1RDWUU0ClZPaWkzY3hDZkE3NXJLOUM2 23 U055ZHVOL0w2SHgyeUNRdmRqcXA1dTQKLS0tIDZ2ZUxndnV2cXV3WlQweCt 24 TXF0T1RHOXVpN1J4ZFBRT3VCUXFWcGMKoMy8xDCk8Etl4N3RGgh/6kerrz8G 25 OXKJEU0HUQ43p+xTAUvaklyZqp4WCktPnASxi5JEU+4tAm88i7yIrg== 26END AGE ENCRYPTED FILE 27 - recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwynd 28 enc: 29BEGIN AGE ENCRYPTED FILE 27 YWdlLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBSZVB2RDBVUURGcjBM 29 T3p4b2lwMTV4Sk14UVRSRGdDZU5udStDY1V3CmV5cGJWSHIvbzJHaVo1Yk5I 20 MkdnQWNNzBFYjBSWTd1aEVEVjJ5MFEKLS0tIHBTSTJtYzFxTTMxN24zRks3 20 OVkwTlkxQzZlbSsyTEZsVkwweFM4bncKaJyu2l0Ie4+JC4EC4YPYlyvZP2+) 34 fN58qf4LrF3nKs1W1A5xAypACT0JZp/3fBuXfD+18QQy7aEE8D+CAA== 35END AGE ENCRYPTED FILE 36 lastmodified: "2023-05-01T19:04:27Z" 37 mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962KqlYDs3 29DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtpl1 29 encrypted_regex: ^(data stringData spec bot_token chat_id)\$ 29 version: 3.7.2 20 Vartin vartic varti vartic varti vartic vartic vartic va</pre> | | enc: |
| <pre>VWdtLWVUY3JSCHRpb24Ub3JhL3YxCl0+lFgyNT0xOSBV2VVRM02SaESb21 MEdkakZPUX2LLy9KUHJIckF0N2RZK1RDWUU0CLZPaWkzY3hDZkE3NXJL0UM3 U05sZHVoL0w2SHgyeUNRdmRqcXA1dTQKLS0tIDZ2ZUxndnV2cXV3WlQweCt TXF0T1RH0XVpN1J4ZFBRT3VCUXFWcGMKoMy8xDCk8Etl4N3RGgh/6kerr280 oXKJEU0HUQ43p+xTAUvaklyZqp4WCktPnASxi5JEU+4tAm88i7yIrg= END AGE ENCRYPTED FILE recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwyn0 enc: BEGIN AGE ENCRYPTED FILE YWdLLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUx0SBSZVB2RDBVUURGcjBM T3p4b21wMTV4sk14UVR5RGdDZU5udStDY1V3CmV5cGJWSHIvbzJHaV01Yk5I MkdnQWNNzBFYjBSWTd1aEVEVjJ5MFEKLS0tIHBTSTJtYzFxTTMxN24zRks5 OVkwTlkxQzZlbSsyTEZSVkwweFM4bncKaJyu2l0Ie4+JC4EC4YPYlyvZPz+ fN58qf4LrF3nKs1W1A5xAypACT0J2p/3fBuXfD+18QQy7aEE8D+CAA== END AGE ENCRYPTED FILE lastmodified: "2023-05-01T19:04:27Z" mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962KqlYDs3 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtpl4 pgp: [] encrypted_regex: ^(data stringData spec bot_token chat_id)\$ version: 3.7.2</pre> | | |
| <pre>22 U05zHvoL2Uy9kOh3ttkyeNaztkikkWoOdCt2PaWk2rShb2kESNk3L00Mt 23 U05zHvoL2W2SHgyeUNRdmRqcXA1dTQKLS0tID22ZUxndnV2cXV3WlQwcK1 24 TXF0T1RHOXVpN1J4ZFBRT3VCUXFWcGMKoMy8xDCk8Etl4N3RGgh/6kerrz80 25 oXKJEU0HUQ43p+xTAUvaklyZqp4WCktPnASxi5JEU+4tAm88i7yIrg== 26END AGE ENCRYPTED FILE 27 - recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwynd 28 enc: 29BEGIN AGE ENCRYPTED FILE 30 YWdlLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBSZVB2RDBVUURGcjBM 31 T3p4b2lwMTV4Sk14UVR5RGdDZU5udStDY1V3CmV5cGJWSHIvbzJHaV01Yk5l 32 MkdnQWNhNzBFYjBSWTd1aEVEVjJ5MFEKLS0tIHBTSTJtYzFxTTMxN24zRks5 33 OVkwTlkxQzZlbSsyTEZsVkwweFM4bncKaJyu2l0Ie4+JC4EC4YPYlyvZPz+) 34 fN58qf4LrF3nKs1W1A5xAypACTOJZp/3fBuXfD+18QQy7aEE8D+CAA== 35END AGE ENCRYPTED FILE 36 lastmodified: "2023-05-01T19:04:27Z" 37 mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962KqlYDs3 39DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtplf 38 pgp: [] 39 encrypted_regex: ^(data stringData spec bot_token chat_id)\$ 37 version: 3.7.2 37 Variation for the set of the set</pre> | | |
| <pre>TXF0TIRHOXVpN1j4ZFBRT3VCUXFWcGMKoMy8xDCk8Etl4N3RGgh/6kerrz8C oXKJEU0HUQ43p+xTAUvaklyZqp4WCktPnASxi5JEU+4tAm88i7yIrg== END AGE ENCRYPTED FILE recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwynd enc: BEGIN AGE ENCRYPTED FILE WdlLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUx0SBSZVB2RDBVUURGcjBM T3p4b2lwMTV4Sk14UVR5RGdDZU5udStDY1V3CmV5cGJWSHIvbzJHaV01Yk5I MkdnQWNhvZBFYjBSWTd1aEVEVjJ5MFEKLS0tIHBTSTJtYzFxTTMxN24zRks2 OVkwTlkxQzZlbSsyTEZsVkwweFM4bncKaJyu2l0Ie4+JC4EC4YPYlyvZP2+> fN58qf4LrF3nKs1W1A5xAypACT0JZp/3fBuXfD+18QQy7aEE8D+CAA== END AGE ENCRYPTED FILE lastmodified: "2023-05-01T19:04:27Z" mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962KqlYDs3 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtplf pgp: [] encrypted_regex: ^(data stringData spec bot_token chat_id)\$ version: 3.7.2</pre> | | MEURARZPONZILYSKUMJICKPUNZKZKIRDWOOUCIZPAWRZTSHDZRESNAJLOOMS 1105s7HVol 0w2SHovelINPdmPacXA1dTOKI S0tTD777UxpdpV2cXV3W] 0weCt |
| <pre>0XKJEU0HUQ43p+xTAUvaklyZqp4WCktPnASxi5JEU+4tAm88i7yIrg== 0XKJEU0HUQ43p+xTAUvaklyZqp4WCktPnASxi5JEU+4tAm88i7yIrg== 0END AGE ENCRYPTED FILE 0 recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwynd 0 enc: 0BEGIN AGE ENCRYPTED FILE 0 YWdlLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUx0SBSZVB2RDBVUURGcjBM 0 T3p4b2lwMTV4sk14UVR5RGdDZU5udStDY1V3CmV5cGJWSHIvbzJHaV01Yk5I 0 MkdnQWNhNzBFYjBSWTd1aEVEVjJ5MFEKLS0tIHBTSTJtYzFxTTMxN24zRks2 0 OVkwTlkxQzZlbSsyTEZsVkwweFM4bncKaJyu2l0Ie4+JC4EC4YPYlyvZP2+3 4 fN58qf4LrF3nKs1W1A5xAypACT0JZp/3fBuXfD+18QQy7aEE8D+CAA== 0END AGE ENCRYPTED FILE 1astmodified: "2023-05-01T19:04:27Z" 0 mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962KqlYDs3 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtplf 0 encrypted_regex: ^(data stringData spec bot_token chat_id)\$ 0 version: 3.7.2</pre> | | TXF0T1RH0XVnN1J47FBRT3VCUXFWcGMKoMv8xDCk8FtJ4N3RGgh/6kerrz80 |
| <pre>END AGE ENCRYPTED FILE recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwynd enc: BEGIN AGE ENCRYPTED FILE YWdlLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBSZVB2RDBVUURGcjBM T3p4b2lwMTV4sk14UVR5RGdDZU5udstDY1V3CmV5cGJWSHIvbzJHaVo1Yk51 MkdnQWNhNzBFYjBSWTd1aEVEVjJ5MFEKLS0tIHBTSTJtYzFxTTMxN24zRks1 OVkwTlkxQzZlbSsyTEZsVkwweFM4bncKaJyu2l0Ie4+JC4EC4YPYlyvZPz+) KN58qf4LrF3nKs1W1A5xAypACT0JZp/3fBuXfD+18QQy7aEE8D+CAA==END AGE ENCRYPTED FILE lastmodified: "2023-05-01T19:04:27Z" mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962KqlYDs3 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtplf pgp: [] encrypted_regex: ^(data stringData spec bot_token chat_id)\$ version: 3.7.2</pre> | | oXKJEU0HU043p+xTAUvaklvZgp4WCktPnASxi5JEU+4tAm88i7vIrg== |
| <pre>- recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwynd enc: BEGIN AGE ENCRYPTED FILE YWdlLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUx0SBSZVB2RDBVUURGcjBM T3p4b2lwMTV4Sk14UVR5RGdDZU5udStDY1V3CmV5cGJWSHIvbzJHaVo1Yk5U MkdnQWNhvzBFYjBSWTd1aEVEVjJ5MFEKLS0tIHBTSTJtYzFxTTMxN24zRks1 OVkwTlkxQzZlbSsyTEZsVkwweFM4bncKaJyu2l0Ie4+JC4EC4YPYlyvZPZ+) fN58qf4LrF3nKs1W1A5xAypACT0JZp/3fBuXfD+18QQy7aEE8D+CAA== END AGE ENCRYPTED FILE lastmodified: "2023-05-01T19:04:27Z" mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962KqlYDs3 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtplf pgp: [] encrypted_regex: ^(data stringData spec bot_token chat_id)\$ version: 3.7.2</pre> | | END AGE ENCRYPTED FILE |
| <pre>28 enc: 29BEGIN AGE ENCRYPTED FILE 30 YWdlLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUx0SBSZVB2RDBVUURGcjBM 31 T3p4b2lwMTV4Sk14UVR5RGdDZU5udStDY1V3CmV5cGJWSHIvbzJHaVo1Yk5U 32 MkdnQWNhx2BFYjBSWTd1aEVEVjJ5MFEKLS0tIHBTSTJtYzFxTTMxN24zRks1 33 OVkwTlkxQzZlbSsyTEZsVkwweFM4bncKaJyu2l0Ie4+JC4EC4YPYlyvZPZ+) 34 fN58qf4LrF3nKs1W1A5xAypACT0JZp/3fBuXfD+18QQy7aEE8D+CAA== END AGE ENCRYPTED FILE 36 lastmodified: "2023-05-01T19:04:27Z" 37 mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962KqlYDs3 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtplf pgp: [] 39 encrypted_regex: ^(data stringData spec bot_token chat_id)\$ version: 3.7.2</pre> | | recipient: age10hzpv26wext204acftvf2n8r6hmnnwxdpkngzaysllpwync |
| <pre>29BEGIN AGE ENCRYPTED FILE 30 YWdlLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBSZVB2RDBVUURGcjBM 31 T3p4b2lwMTV4Sk14UVR5RGdDZU5udStDY1V3CmV5cGJWSHIvbzJHaVo1Yk5U 32 MkdnQWNhNzBFYjBSWTd1aEVEVjJ5MFEKLS0tIHBTSTJtYzFxTTMxN24zRks3 33 OVkwTlkxQzZlbSsyTEZsVkwweFM4bncKaJyu2l0Ie4+JC4EC4YPYlyvZPZ+> 34 fN58qf4LrF3nKs1W1A5xAypACTOJZp/3fBuXfD+18QQy7aEE8D+CAA== END AGE ENCRYPTED FILE 36 lastmodified: "2023-05-01T19:04:27Z" 37 mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962KqlYDs3 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtpl1 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtpl1 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtpl1 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtpl1 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtpl1 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtpl1 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtpl1 90 encrypted_regex: ^(data stringData spec bot_token chat_id)\$ 90 version: 3.7.2</pre> | | enc: |
| <pre>30 YWdlLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBSZVB2RDBVUURGcjBM 31 T3p4b2lwMTV4Sk14UVR5RGdDZU5udStDY1V3CmV5cGJWSHIvbzJHaVo1Yk5l 32 MkdnQWNhNzBFYjBSWTd1aEVEVjJ5MFEKLS0tIHBTSTJtYzFxTTMxN24zRks3 33 OVkwTlkxQzZlbSsyTEZsVkwweFM4bncKaJyu2l0Ie4+JC4EC4YPYlyvZPZ+) 34 fN58qf4LrF3nKs1W1A5xAypACT0JZp/3fBuXfD+18QQy7aEE8D+CAA== 35END AGE ENCRYPTED FILE 36 lastmodified: "2023-05-01T19:04:27Z" 37 mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962KqlYDs3 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtplf 38 pgp: [] 39 encrypted_regex: ^(data stringData spec bot_token chat_id)\$ version: 3.7.2</pre> | | BEGIN AGE ENCRYPTED FILE |
| <pre>31 T3p4b2lwMTV4Sk14UVR5RGdDZU5udStDY1V3CmV5cGJWSHIvbzJHaVo1Yk5U 32 MkdnQWNhNzBFYjBSWTd1aEVEVjJ5MFEKLS0tIHBTSTJtYzFxTTMxN24zRks3 33 OVkwTlkxQzZlbSsyTEZsVkwweFM4bncKaJyu2l0Ie4+JC4EC4YPYlyvZPZ+) 34 fN58qf4LrF3nKs1W1A5xAypACTOJZp/3fBuXfD+18QQy7aEE8D+CAA== 35END AGE ENCRYPTED FILE 36 lastmodified: "2023-05-01T19:04:27Z" 37 mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ2OuA6PaHDSaJn3tHZVkQ962KqlYDs3 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtpl1 38 pgp: [] 39 encrypted_regex: ^(data stringData spec bot_token chat_id)\$ 40 version: 3.7.2</pre> | | YWdlLWVuY3J5cHRpb24ub3JnL3YxCi0+IFgyNTUxOSBSZVB2RDBVUURGcjBM |
| <pre>32 MkdnQWNhZBFYjBSWTd1aEVEVjJ5MFEKLS0tIHBTSTJtYzFxTTMxN24zRks3 33 OVkwTlkxQzZlbSsyTEZsVkwweFM4bncKaJyu2l0Ie4+JC4EC4YPYlyvZPZ+) 34 fN58qf4LrF3nKs1W1A5xAypACT0JZp/3fBuXfD+18QQy7aEE8D+CAA== 35END AGE ENCRYPTED FILE 36 lastmodified: "2023-05-01T19:04:27Z" 37 mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962KqlYDs3 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtplf 38 pgp: [] 39 encrypted_regex: ^(data stringData spec bot_token chat_id)\$ 40 version: 3.7.2</pre> | | T3p4b2lwMTV4Sk14UVR5RGdDZU5udStDY1V3CmV5cGJWSHIvbzJHaVo1Yk5L |
| 33OVKWTIKXQZZLDSSyTEZSVKWWeFM4DnCKaJyuZl01e4+JC4EC4YPYlyvZPZ+>34fN58qf4LrF3nKs1W1A5xAypACT0JZp/3fBuXfD+18QQy7aEE8D+CAA==35END AGE ENCRYPTED FILE36lastmodified: "2023-05-01T19:04:27Z"37mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962KqlYDs399DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtplf38pgp: []39encrypted_regex: ^(data stringData spec bot_token chat_id)\$40version: 3.7.2 | | MkdnQWNhNzBFYjBSWTd1aEVEVjJ5MFEKLS0tIHBTSTJtYzFxTTMxN24zRks1 |
| <pre>34 TN58qT4LrF3nKSIWIA5XAypACTOJ2p/3TBUXTD+18QQy/aEE8D+CAA== 35</pre> | | 0VKWILKXQZZLDSSYIEZSVKWWEFM4DnCKaJyuZL01e4+JC4EC4YPYLyvZPZ+X |
| <pre>36 lastmodified: "2023-05-01T19:04:27Z" 37 mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ20uA6PaHDSaJn3tHZVkQ962KqlYDs3 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtplf 38 pgp: [] 39 encrypted_regex: ^(data stringData spec bot_token chat_id)\$ 40 version: 3.7.2</pre> | | TN58QT4LTF3NKSIWIA5XAYPACTOJZP/3TBUXTD+18QQY/aEE8D+CAA== |
| <pre>30 mac: ENC[AES256_GCM,data:CXKh18u4vNCAQ2OuA6PaHDSaJn3tHZVkQ962KqlYDs3 99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtplf 38 pgp: [] 39 encrypted_regex: ^(data stringData spec bot_token chat_id)\$ 40 version: 3.7.2</pre> | | lastmodified. "2023-05-01T19.04.277" |
| <pre>99DGnxMYj5hNwPFDbzkgCe2aNqFusfhsg=,iv:3Lew0xiu2hiyxkW/lqw47nzDJGvQFNtplf 38</pre> | | mac: $ENC[\Delta ES256, GCM, data:CXKh18u4vNCA020uA6PaHDSa]n3tH7Vk0962Kd]VDs3$ |
| <pre>38 pgp: [] 39 encrypted_regex: ^(data stringData spec bot_token chat_id)\$ 40 version: 3.7.2</pre> | | 99DGnxMYi5hNwPFDbzkgCe2aNgFusfhsg=.iv:3Lew0xiu2hivxkW/lgw47nzDJGvOFNtplf |
| <pre>39 encrypted_regex: ^(data stringData spec bot_token chat_id)\$ 40 version: 3.7.2</pre> | | pgp: [] |
| 40 version: 3.7.2 | | <pre>encrypted_regex: ^(data stringData spec bot token chat id)\$</pre> |
| | | version: 3.7.2 |
| | | |

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NETWORKING HOW TO SERVE YOUR APPLICATION


THE ABSOLUTE BASICS

- Pod-Spec exposes a Port
- A Service selects Pods via labels
- Service specifies an exposed Port
- The Service ensures traffic is served to the Pod on the Pods Port

SERVICES





| | 1 | apiVersion: apps/v1 |
|---------------------|----|------------------------------------|
| | 2 | kind: Deployment |
| | 3 | metadata: |
| | 4 | name: kuard-deployment |
| | 5 | labels: |
| | 6 | app: kuard |
| | 7 | spec: |
| | 8 | replicas: 3 |
| | 9 | selector: |
| | 10 | matchLabels: |
| | 11 | app: kuard |
| | 12 | template: |
| Version: v1 | 13 | metadata: |
| nd: Service | 14 | labels: |
| adata: | 15 | app: kuard |
| name: kuard-service | 16 | spec: |
| ec: | 17 | containers: |
| selector: | 18 | - image: gcr.io/kuar-demo/kuard-am |
| app: kuard | 19 | name: kuard |
| oorts: | 20 | ports: |
| - port: 80 | 21 | - containerPort: 8080 |
| targetPort: 8080 | 22 | name: http |
| | | |





HOW TO SERVE CUSTOMER TRAFFIC

Node Port

Load Balancer

Ingress Controller



EASY MODE: NODE PORT

- No Load-Balancing and auto-failover
- Available Node-Port Range is 30000-32767
- No reserved ports (80, 443, etc.)



NODE-PORT





| | 1 | apiVersion: apps/v1 |
|---------------------|----|------------------------------------|
| | 2 | kind: Deployment |
| | 3 | metadata: |
| | 4 | name: kuard-deployment |
| | 5 | labels: |
| | 6 | app: kuard |
| | 7 | spec: |
| | 8 | replicas: 3 |
| | 9 | selector: |
| | 10 | matchLabels: |
| | 11 | app: kuard |
| | 12 | template: |
| Version: v1 | 13 | metadata: |
| nd: Service | 14 | labels: |
| adata: | 15 | app: kuard |
| name: kuard-service | 16 | spec: |
| ec: | 17 | containers: |
| selector: | 18 | - image: gcr.io/kuar-demo/kuard-am |
| app: kuard | 19 | name: kuard |
| oorts: | 20 | ports: |
| - port: 80 | 21 | - containerPort: 8080 |
| targetPort: 8080 | 22 | name: http |
| | | |





ADVANCED MODE: LOADBALANCER

- Expensive (usually each LoadBalancer is billed separately, for existence & traffic)
- Certificate management is limited by the Cloud-Provider capabilities
- Requires a Cloud-Provider with LoadBalancer support
- TLS usually terminated at the LB
- Only works for domains, not paths



LOADBALANCER





| | 1 | apiVersion: apps/v1 |
|---------------------|----|------------------------------------|
| | 2 | kind: Deployment |
| | 3 | metadata: |
| | 4 | name: kuard-deployment |
| | 5 | labels: |
| | 6 | app: kuard |
| | 7 | spec: |
| | 8 | replicas: 3 |
| | 9 | selector: |
| | 10 | matchLabels: |
| | 11 | app: kuard |
| | 12 | template: |
| Version: v1 | 13 | metadata: |
| nd: Service | 14 | labels: |
| adata: | 15 | app: kuard |
| name: kuard-service | 16 | spec: |
| ec: | 17 | containers: |
| selector: | 18 | - image: gcr.io/kuar-demo/kuard-am |
| app: kuard | 19 | name: kuard |
| oorts: | 20 | ports: |
| - port: 80 | 21 | - containerPort: 8080 |
| targetPort: 8080 | 22 | name: http |
| | | |





EXPERT LEVEL: INGRESS CONTROLLER

- Domain Auto discovery
- Certificates can be issued automatically
- High performance
- Works on URL paths





INGRESS

| Т | | |
|----|--|-------|
| 2 | apiVersion: networking.k8s.io/v1 | |
| 3 | kind: Ingress | |
| 4 | metadata: | |
| 5 | name: tailnet-ingress | |
| 6 | annotations: | |
| 7 | ingress.kubernetes.io/rewrite-target: / | |
| 8 | kubernetes.io/ingress.class: nginx | |
| 9 | cert-manager.io/cluster-issuer: "letsencrypt-prod" | |
| 10 | spec: | |
| 11 | rules: | |
| 12 | – host: test.cedi.dev | |
| 13 | http: | 1 api |
| 14 | paths: | 2 kir |
| 15 | - path: / | 3 mot |
| 16 | pathType: Prefix | 5 met |
| 17 | backend: | 4 r |
| 18 | service: | 5 spe |
| 19 | name: kuard-service | 6 |
| 20 | port: | 0 3 |
| 21 | number: 80 | 7 |
| 22 | tls: | 8 1 |
| 23 | - secretName: test-ts-secret | 9 |
| 24 | hosts: | |
| 25 | - test.cedi.dev | 10 |
| | | |





SERVICE



WRAP-UP

- Take a Pi, install K3s
- Deploy your workload with Helm and or Kustomize
- Secure your secrets with SOPS and don't leak them to Git
- Keep your Cluster reconciled with ArgoCD
- Use ingress-nginx to serve incoming requests

CONGRATS, NOW YOU HAVE A K8S CLUSTER TO MAINTAIN





@archang3l_media@chaos.social •••





@cedi@hachyderm.io

THANKS FOR LISTENING!





RELATED TALKS AND TOPICS

- Decoding Site Reliability Engineering: An Exploration of SRE, DevOps, and Platform Engineering
 - <u>ccl.pw/decoding-sre</u>
- Tempo, and Mimir
 - <u>ccl.pw/modern-o11y</u>
- Understanding Alerting How to come up with a good enough alerting strategy (GPN 20)
 - ccl.pw/alerting
- Kubernetes, the good, the bad and the Ugly (GPN 20)
 - ccl.pw/k8s-the-good-the-bad-the-ugly

Modern Observability - Scalable Observability with the LGTM Stack: Harnessing the Power of Loki, Grafana,