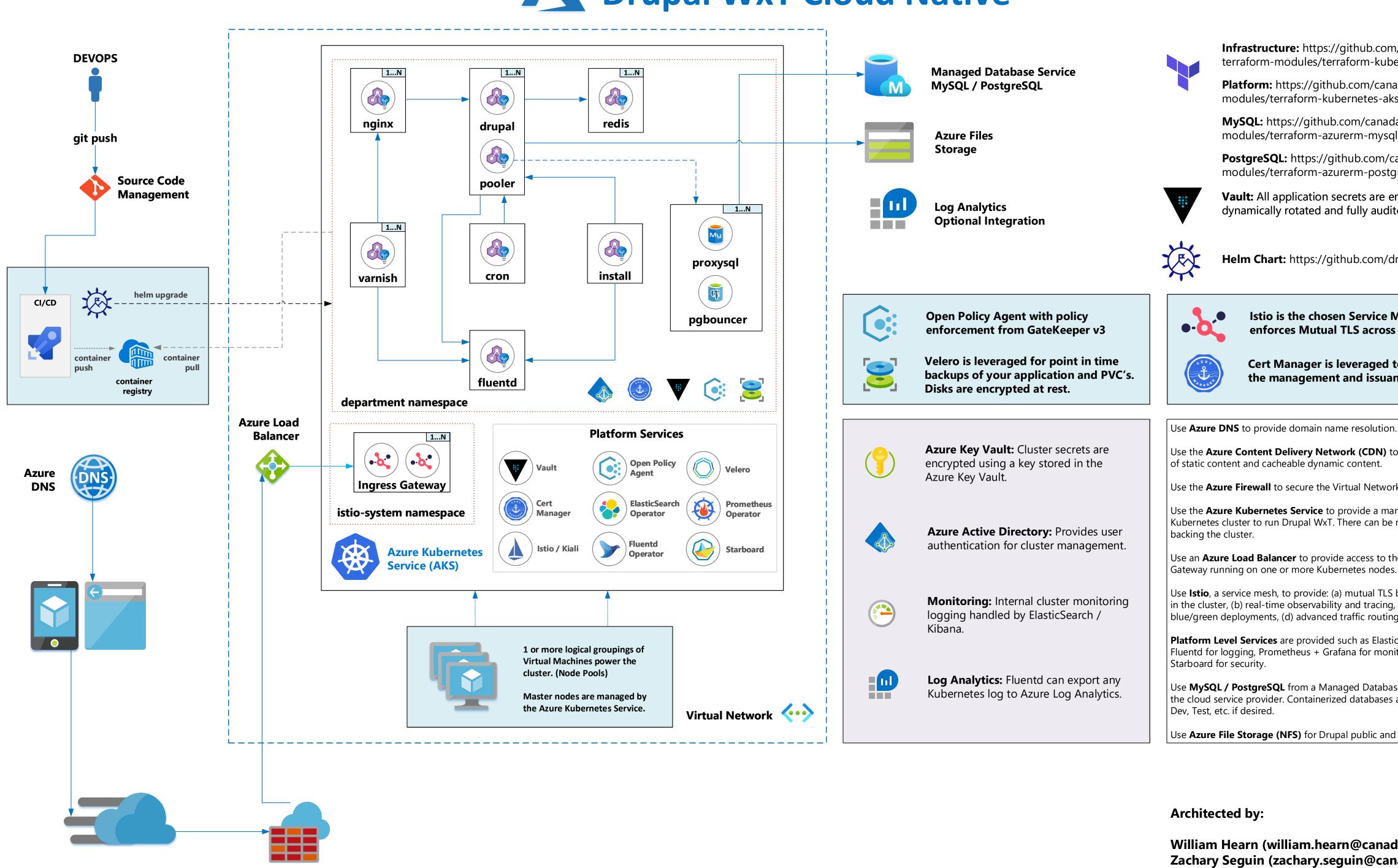


Content Delivery

Network (CDN)

Firewall

Drupal WxT Cloud Native



Infrastructure: https://github.com/canada-caterraform-modules/terraform-kubernetes-aks

Platform: https://github.com/canada-ca-terraformmodules/terraform-kubernetes-aks-platform

MySQL: https://github.com/canada-ca-terraformmodules/terraform-azurerm-mysql

PostgreSQL: https://github.com/canada-ca-terraformmodules/terraform-azurerm-postgresql

Vault: All application secrets are encrypted, dynamically rotated and fully audited

Helm Chart: https://github.com/drupalwxt/helm-drupal

Istio is the chosen Service Mesh which enforces Mutual TLS across all services

Cert Manager is leveraged to automate the management and issuance of certs

Use the **Azure Content Delivery Network (CDN)** to provide caching

Use the **Azure Firewall** to secure the Virtual Network.

Use the **Azure Kubernetes Service** to provide a managed Kubernetes cluster to run Drupal WxT. There can be multiple VMs

Use an **Azure Load Balancer** to provide access to the Istio Ingress

Use **Istio**, a service mesh, to provide: (a) mutual TLS between services in the cluster, (b) real-time observability and tracing, (c) canary / blue/green deployments, (d) advanced traffic routing.

Platform Level Services are provided such as ElasticSearch and Fluentd for logging, Prometheus + Grafana for monitoring, and

Use MySQL / PostgreSQL from a Managed Database provided By the cloud service provider. Containerized databases are provided for

Use **Azure File Storage (NFS)** for Drupal public and private files.

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