Designer Private Edition Guide

Architecture

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Contents

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Introduction

The architecture diagram in this topic illustrates a sample deployment of Designer and DAS.

For more information on the Genesys Multicloud CX private edition architecture, refer to the Architecture topic in the *Setting up Genesys Multicloud CX private edition* document.

For information about the overall architecture of Genesys Multicloud CX private edition, see the high-level Architecture page.

See also High availability and disaster recovery for information about high availability/disaster recovery architecture.

Architecture diagram — Connections

The numbers on the connection lines refer to the connection numbers in the table that follows the diagram. The direction of the arrows indicates where the connection is initiated (the source) and where an initiated connection connects to (the destination), from the point of view of Designer as a service in the network.
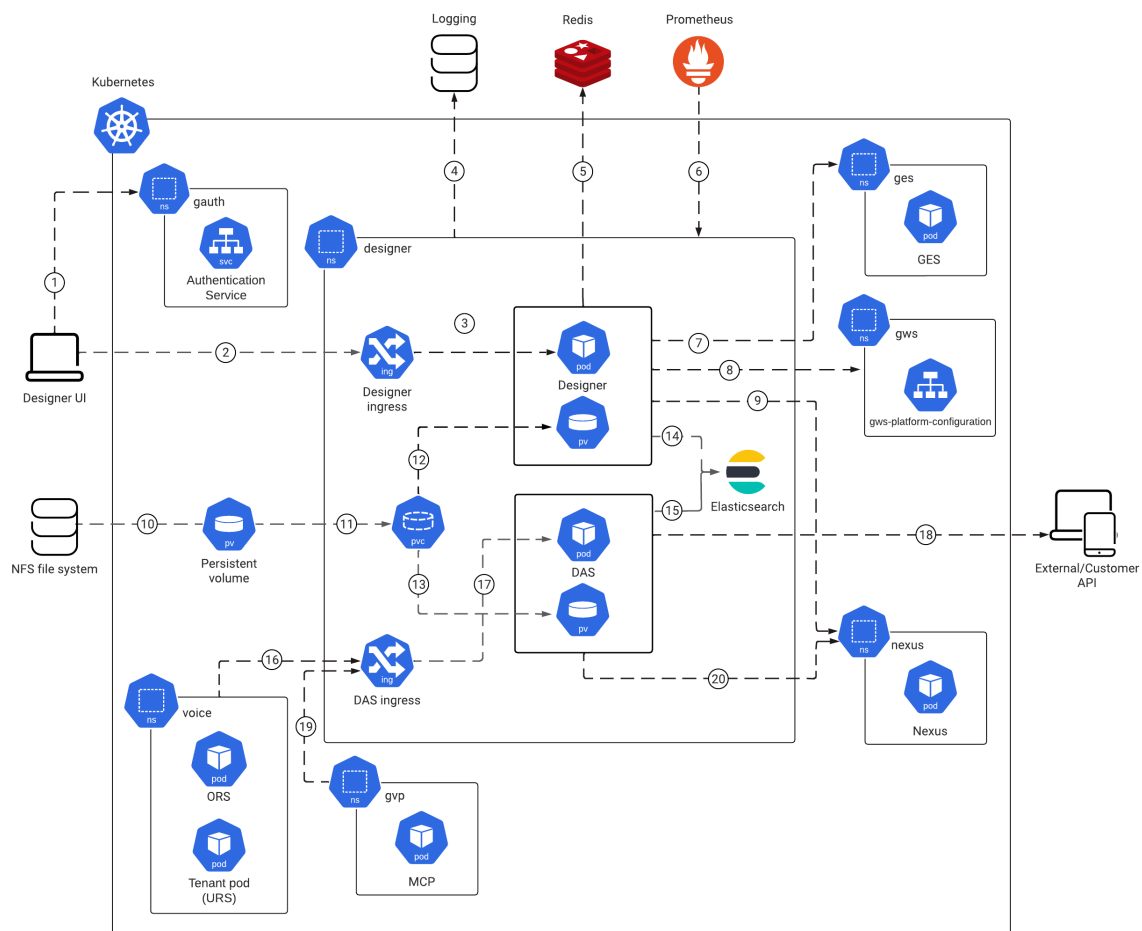
Connections table

The connection numbers refer to the numbers on the connection lines in the diagram. The **Source**, **Destination**, and **Connection Classification** columns in the table relate to the direction of the arrows in the Connections diagram above: The source is where the connection is initiated, and the destination is where an initiated connection connects to, from the point of view of Designer as a service in the network. *Egress* means the Designer service is the source, and *Ingress* means the Designer service is the destination. *Intra-cluster* means the connection is between services in the cluster.

Connection	Source	Destination	Protocol	Port	Classification	Data that travels on this connection
1	Customer browser	Genesys Authentication	HTTPS	8095	Intra-cluster	Designer queries the Genesys Authentication Service to validate the user's identity.
2		Designer ingress	HTTP	443	Ingress	Web browser used to access the Designer UI.
3	Designer ingress	Designer	HTTP	8888	Egress	Incoming web traffic from the UI.
4	Designer	Logging	HTTP		Egress	Centralized logging.
5	Designer	Redis	HTTP	6380	Egress	Resource index caching and multi-user collaboration locks on Designer resources.
6	Prometheus	Designer	HTTP	8888	Ingress	Metrics for monitoring and alerting with Prometheus.
7	Designer	Genesys Engagement Service	HTTP	80		Publish callback services.
8	Designer	Genesys Web Services and Applications	HTTP	80		Authentication of Designer and configuration data access.
9	Designer replica set	Nexus	HTTP/HTTPS	80	Ingress	Fetch Designer Bot registry information.
10	Shared file system (NFS)	Persistent volume				NFS for workspace storage.
11	Persistent volume	Designer Persistent Volume				Data for workspace storage.

Connection	Source	Destination	Protocol	Port	Classification	Data that travels on this connection
		Claim (PVC)				
12	Designer Persistent Volume Claim (PVC)	Designer replica set persistent volume				Data for workspace storage.
13	Designer Persistent Volume Claim (PVC)	DAS replica set persistent volume				Data for workspace storage.
14	Designer	Elasticsearch	HTTP	9205	Egress	Query Designer Analytics data (Session Detail Records).
15	Designer Application Server	Elasticsearch	HTTP	9205	Egress	Store Designer Analytics data (Session Detail Records).
16	Voice Microservices	DAS ingress	HTTP	80	Ingress	Fetch Designer application pages (VXML, SCXML), JSON files, and so on.
17	DAS ingress	Designer Application Server	HTTP	8080	Ingress	HTTP traffic from DAS ingress.
18	External/ Customer	Designer Application Server	HTTPS	443	Egress	External customer API requests.
19	Genesys Voice Platform	DAS ingress	HTTP	80	Ingress	Fetch Designer audio resources.
20	Designer Application Server	Nexus	HTTP/HTTPS	80	Ingress	Fetch GES APIs for callback processing.