

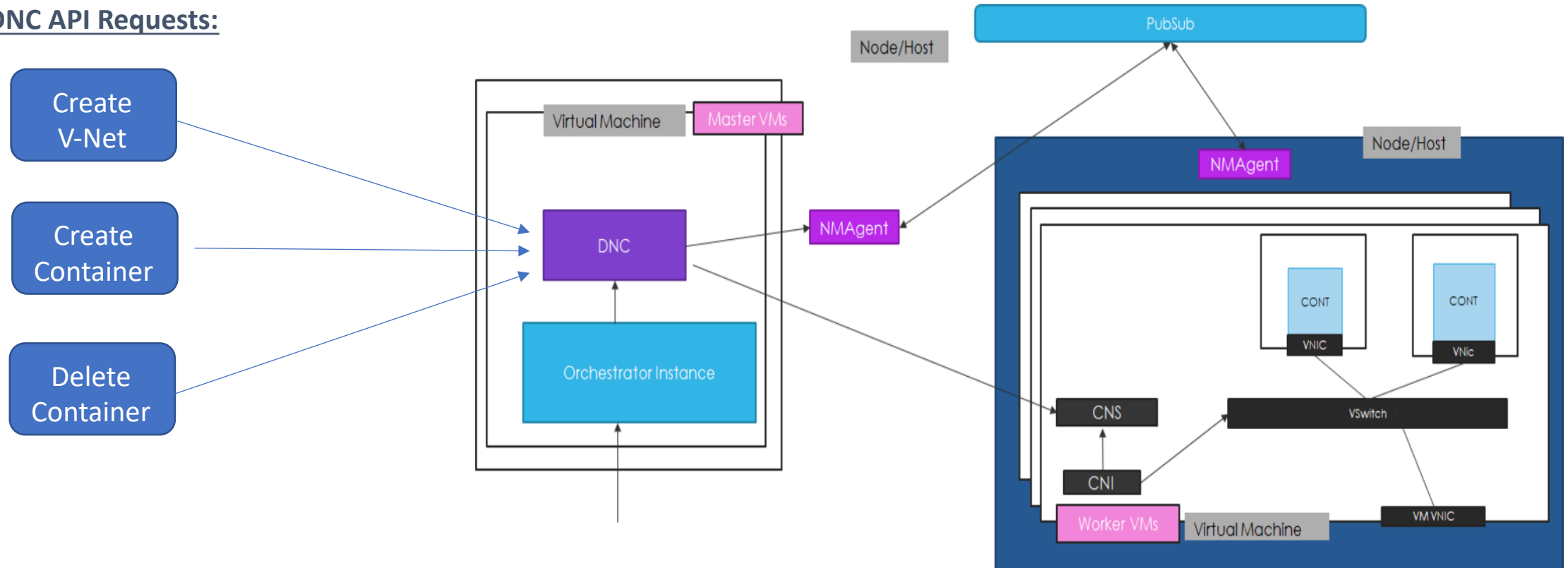
# Automated Scale Testing for DNC via CI/CD Pipeline

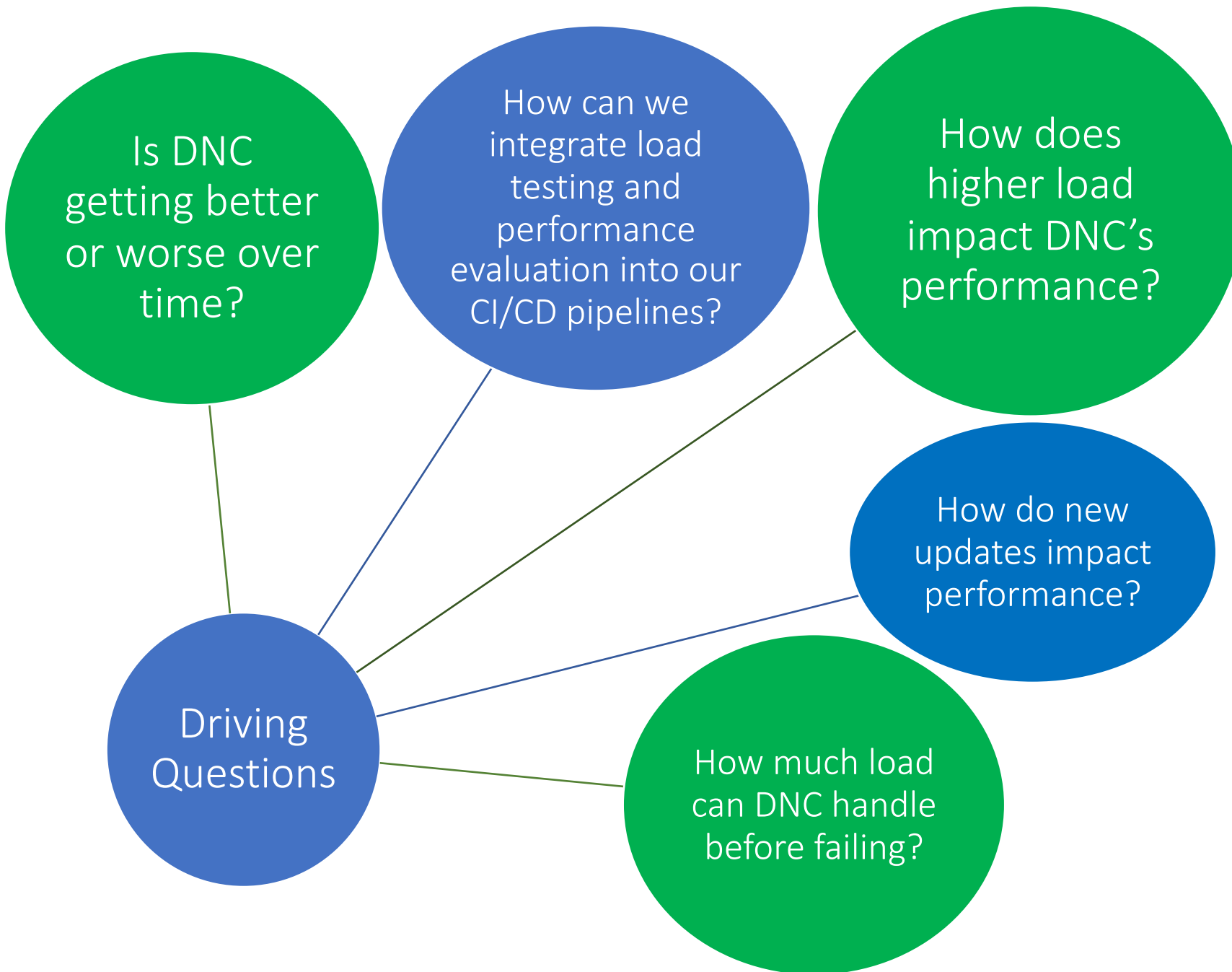
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Azure Container Networking

# What is the Delegated Network Controller (DNC)?

The DNC is a component of Azure's container networking stack that coordinates between clients, container orchestrators, and other services to create, maintain, and destroy container infrastructure like nodes, subnetworks, networks, containers.

## Example DNC API Requests:

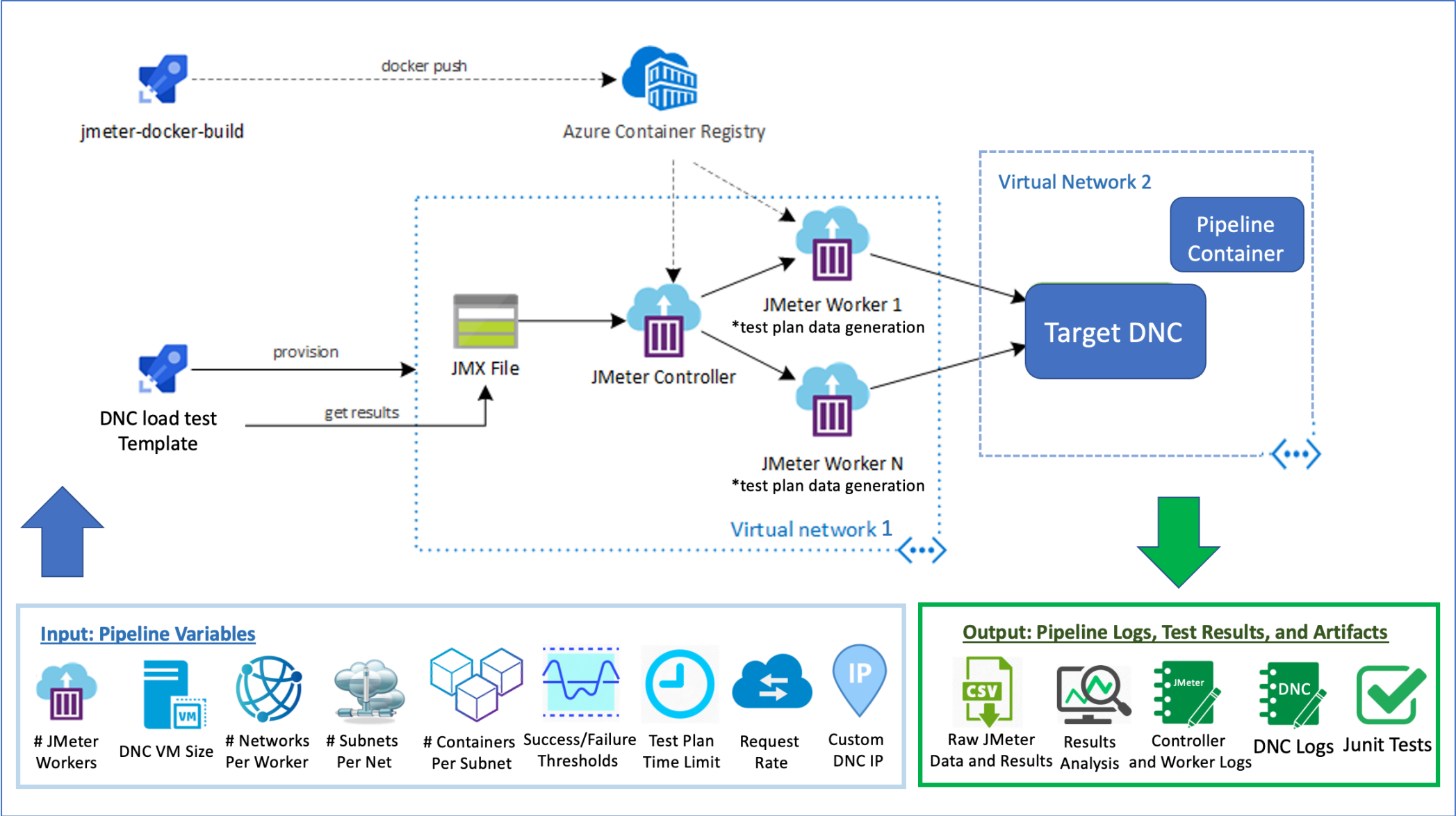




## Load Test Pipeline Design Objectives:

- 1) Identify target DNC or spin up DNC instance given target branch.
- 2) Provision and deploy the infrastructure for load testing.
- 3) Consolidate and publish the results; block pull requests with significant performance problems.
- 4) Integrate with Azure DevOps portal for easy and sophisticated customization of test plans, continuous evaluation, and streamlined analysis of results.

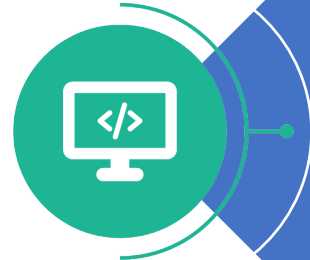
# Design Overview



# Use Cases



Automatic Regression Testing  
on New Pull Requests



Analysis of Preexisting DNCs  
(ex: exposing bottlenecks)



DNC Limit Testing and  
Baselining

Example Exposed Bottlenecks

