



CLOUD INFRASTRUCTURE





COMPLETION

EOY 2021

INITIAL SCOPE - FEASIBILITY

To investigate the feasibility of having CJC's infrastructure in a cloud-based platform. The results will determine if this can be adopted.

We will primarily looking at the feasibility of a completely isolated model, which **does not depend on office connectivity.**

This study will look at the estimated costings surrounding the design, as well as key deliverables.

INITIAL SCOPE - FEASIBILITY

At a **high-level** the following list are the main targets and tasks for the project:

- Gather requirements for WVD and Foundations
- Implement WVD Foundations (Networking, VPNs, Azure Policies, Diagnostics and Security)
- Create Azure Active Directory Domain Services
- Create WVD Pool with Session Hosts (Regionalised)
- Configure storage for Roaming Profiles
- Harden WVD Security Posture
- Setup Backups
- Setup Disaster Recovery and Test
- Create Documentation & Support

INITIAL SCOPE - FEASIBILITY

35 Users split between AMER, EMEA, APAC

EMEA - 15 hosts / VPN tunnels

APAC - 7 hosts / VPN tunnels

AMERS - 13 hosts / VPN tunnels



INITIAL SCOPE - MAIN POINTS

- The **optimal** PC / connectivity / resource standards
- VPNS – RF connectivity to DCs, etc
- General speed / Ingress and Egress bandwidth
- Restriction imposed on devices used to access cloud platform via endpoint control

INITIAL SCOPE - SUMMARY

8AM – 6PM standard usage (per region)

Minimum disk size required for barebones build image, to then be customised via MSIX App Attach. Windows 10 (to be 11 later)

1GB user storage

Fully compliant to our GDPR/ISO policies and adherence to policies and procedures put forward by CJC to ensure business continuity and safety

Supportable remotely

2:1 monitor mapping

Connectivity to required Datacentres via VPNs

INTRODUCTION - SUMMARY

Test viability of Windows Virtual Desktop

Testing the **complete solution** for feasibility and performance going forward.

Solution must be secure as possible

Meet **all** Microsoft Security best practices (Azure FW) and **internal policy**.

Meet ISO27001 Audit requirements

The ISO27001 policy will be deployed which will enforce controls ensuring audit compliance. Visibility within the Azure Portal.

Provide users the ability to test the system

All **35 test users** must be able to access and use regionally. This will scale to 100 users if the POC is successful.


The framework must allow growth if the Global Project commences

Hub & Spoke design to allow frictionless growth. VPN Gateways will be implemented within the Hub providing connectivity to 15 client sites.

VENDOR ASSESSMENT

We have conducted assessments among the three giants, as well as private.

Microsoft Azure
Amazon Web Services
Google Cloud Platform

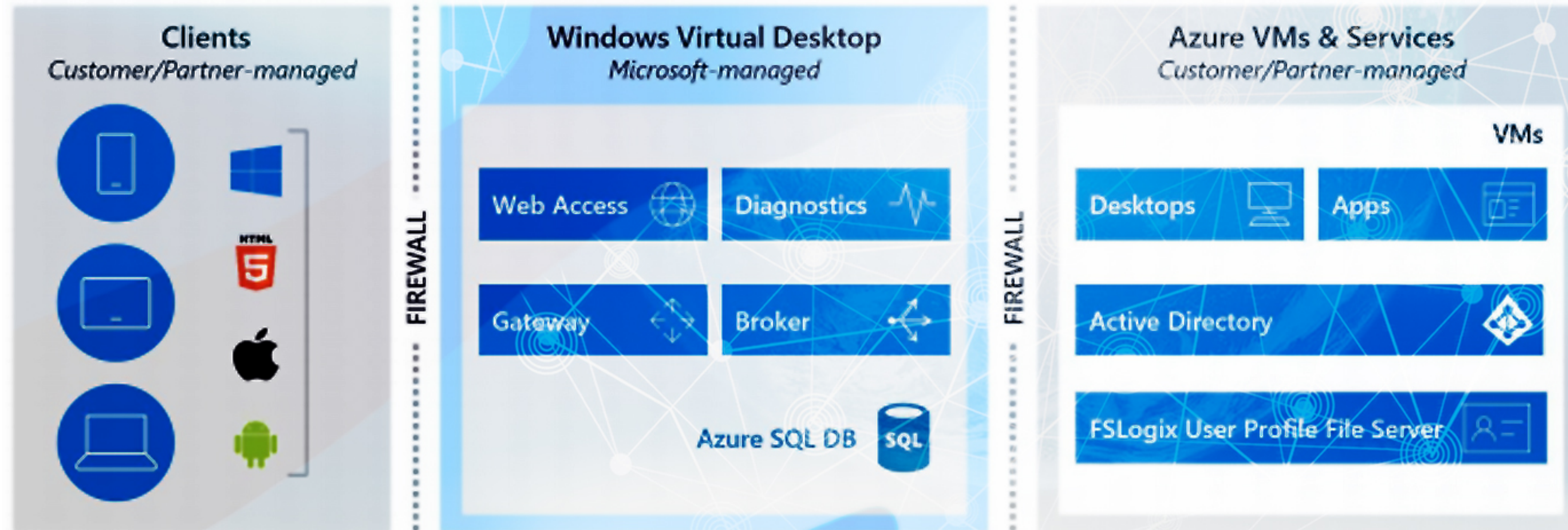
Based on analysis and costs, we recommend to go with  Azure

A hand is shown holding a glowing, semi-transparent globe. The globe is overlaid with a white network of dots and lines, representing a digital or data network. The text "PROPOSED DESIGN" is centered on the globe in a blue, sans-serif font. The background is a dark, teal-blue gradient with some bokeh light effects.

PROPOSED DESIGN

DESIGN

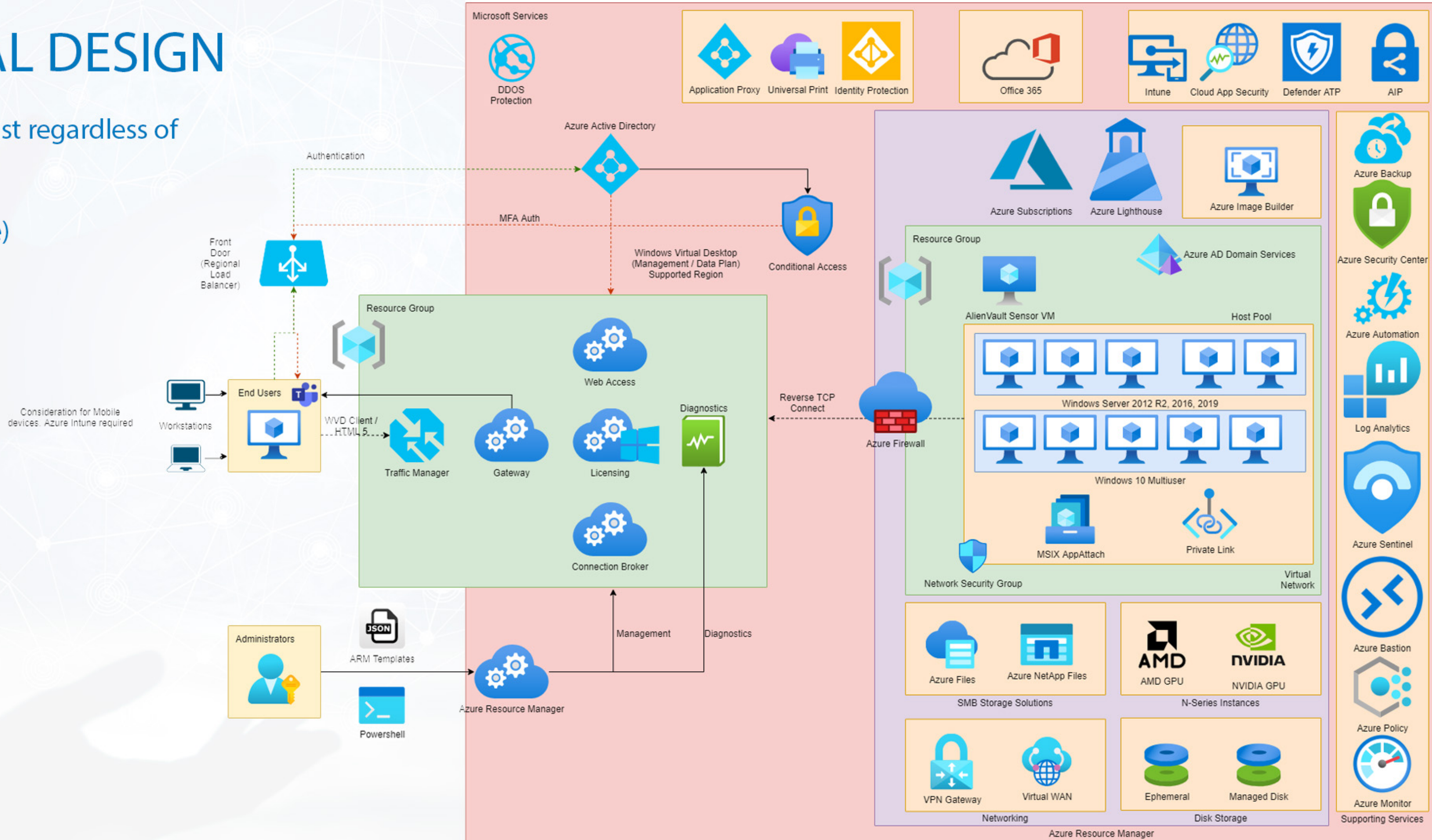
Simplistic - High Level (Transparency)



TECHNICAL DESIGN

Framework must exist regardless of host pool VM count

(AMERS at this stage)



Consideration for Mobile devices. Azure Intune required

TIMELINE



STEPS

PHASE 1

VALIDATION OF DESIGN
BOARD SIGN OFF

PHASE 2

BEGIN IMPLEMENTATION
BEGIN COMMS VPNs TO DC
IMPLEMENT SECURITY
BEST PRACTICES

PHASE 3

REVIEW OF IMPLEMENTATION
REVIEW HOST POOL
SECURITY TIGHTENING
NETWORK VALIDATION

PHASE 4

BEGIN POC
SECURITY TIGHTENING
METRIC ANALYSIS
(EGRESS & CPU & IOPS)

PHASE 5

END POC
METRIC ANALYSIS RESULTS
FINAL COSTINGS
EVALUATION

