

# SHIPGREEN + AZURE

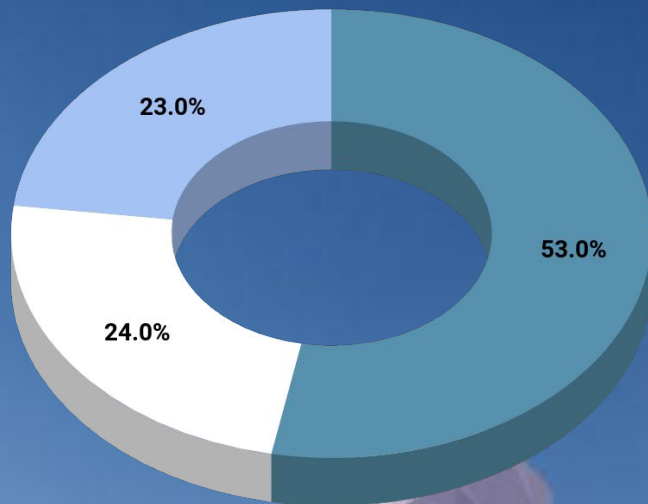


Green Infrastructure for Carbon-Neutral  
Logistics

# MOTIVATIONS:

IT INDUSTRY = 2% OF  
GLOBAL EMISSIONS

FREIGHT = 7% OF GLOBAL  
EMISSIONS



- End-Users
- Networks
- Datacenters



# -CARBON NEUTRAL-

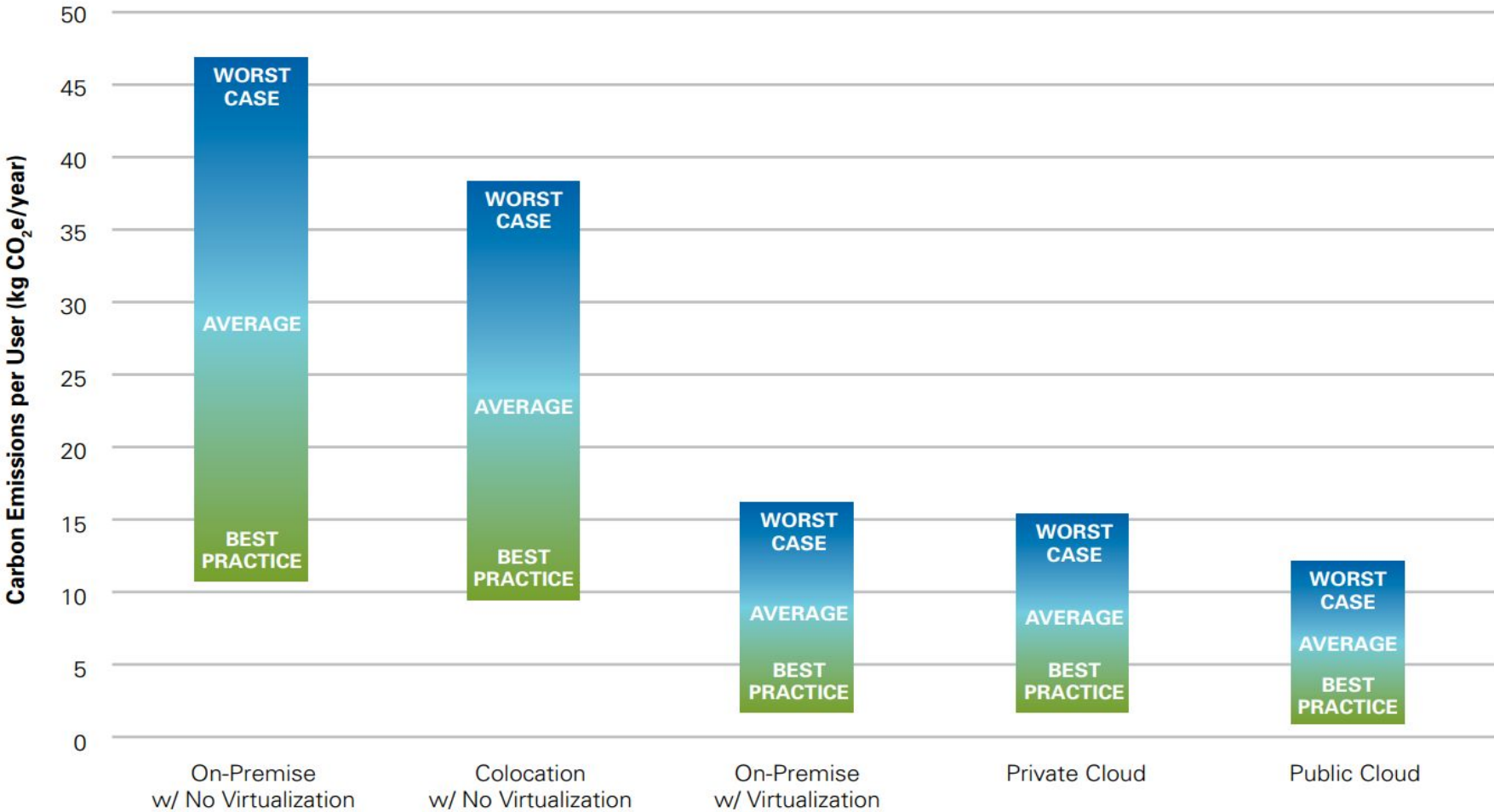
MAKING NO NET RELEASE OF CARBON DIOXIDE TO THE ATMOSPHERE, ESPECIALLY  
THROUGH OFFSETTING EMISSIONS

MITIGATION



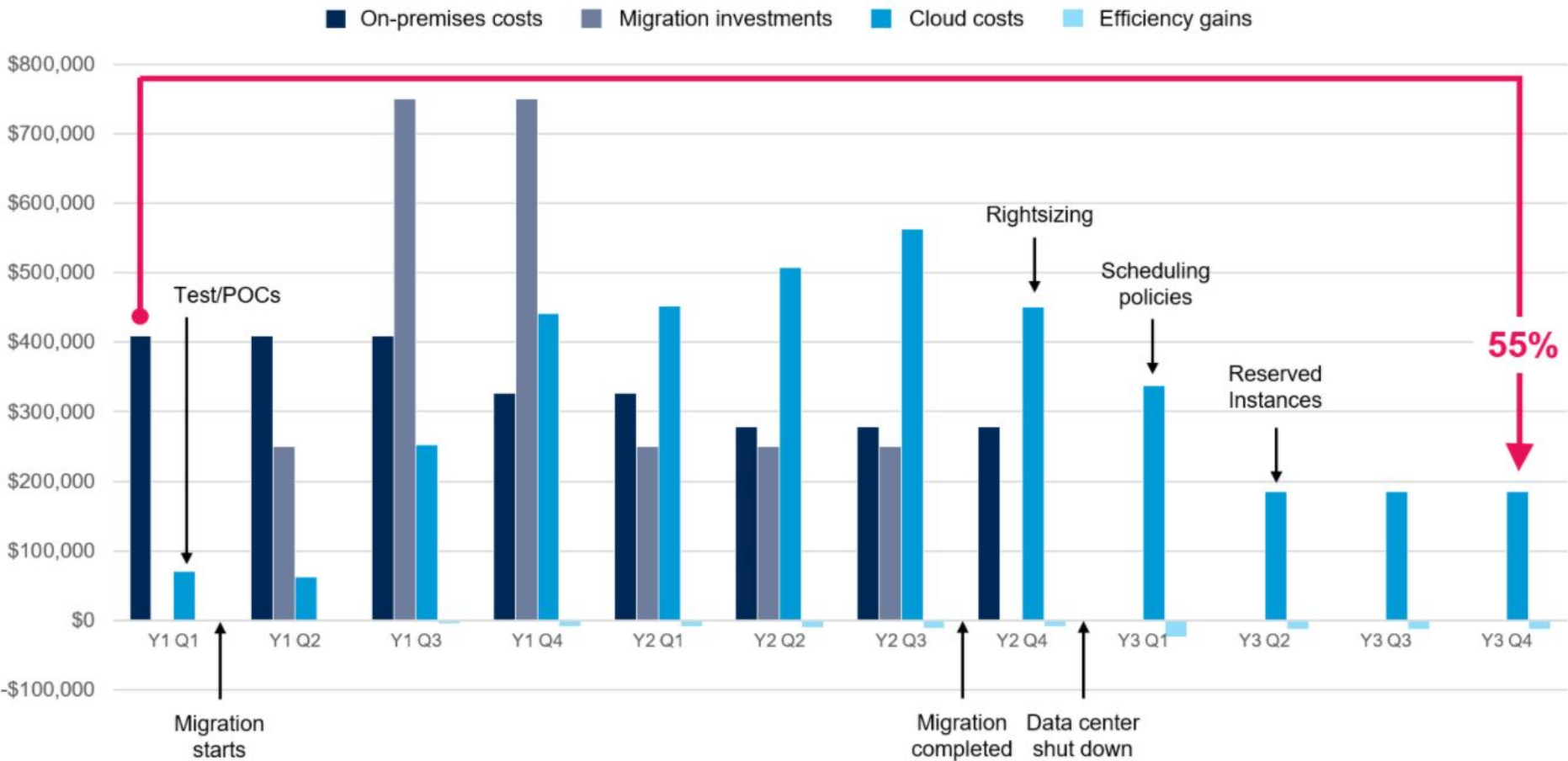
EFFICIENCY

**Figure 1: Comparison of Deployment Scenarios (Office Productivity Applications)**





## Example TCO of Migration to Cloud IaaS Over Three Years



# -CARBON NEUTRAL-

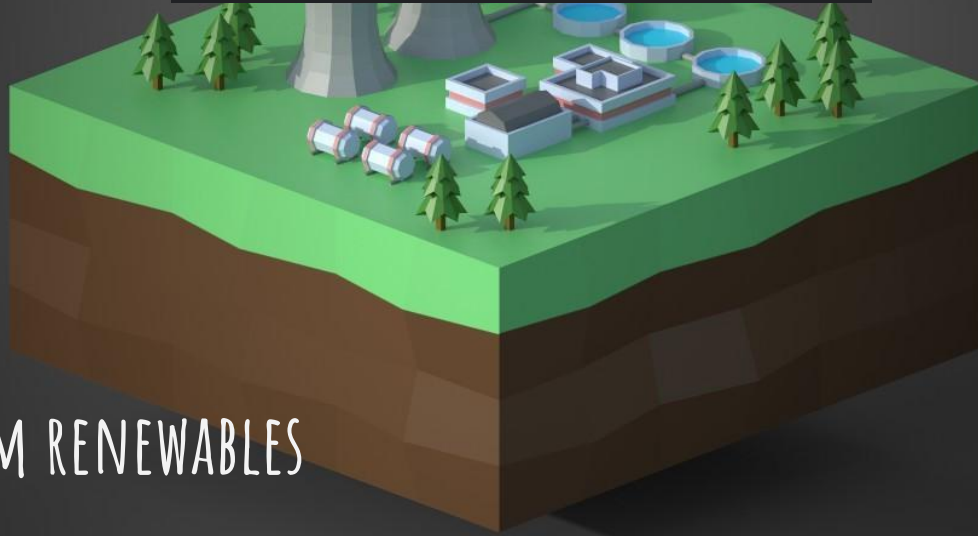
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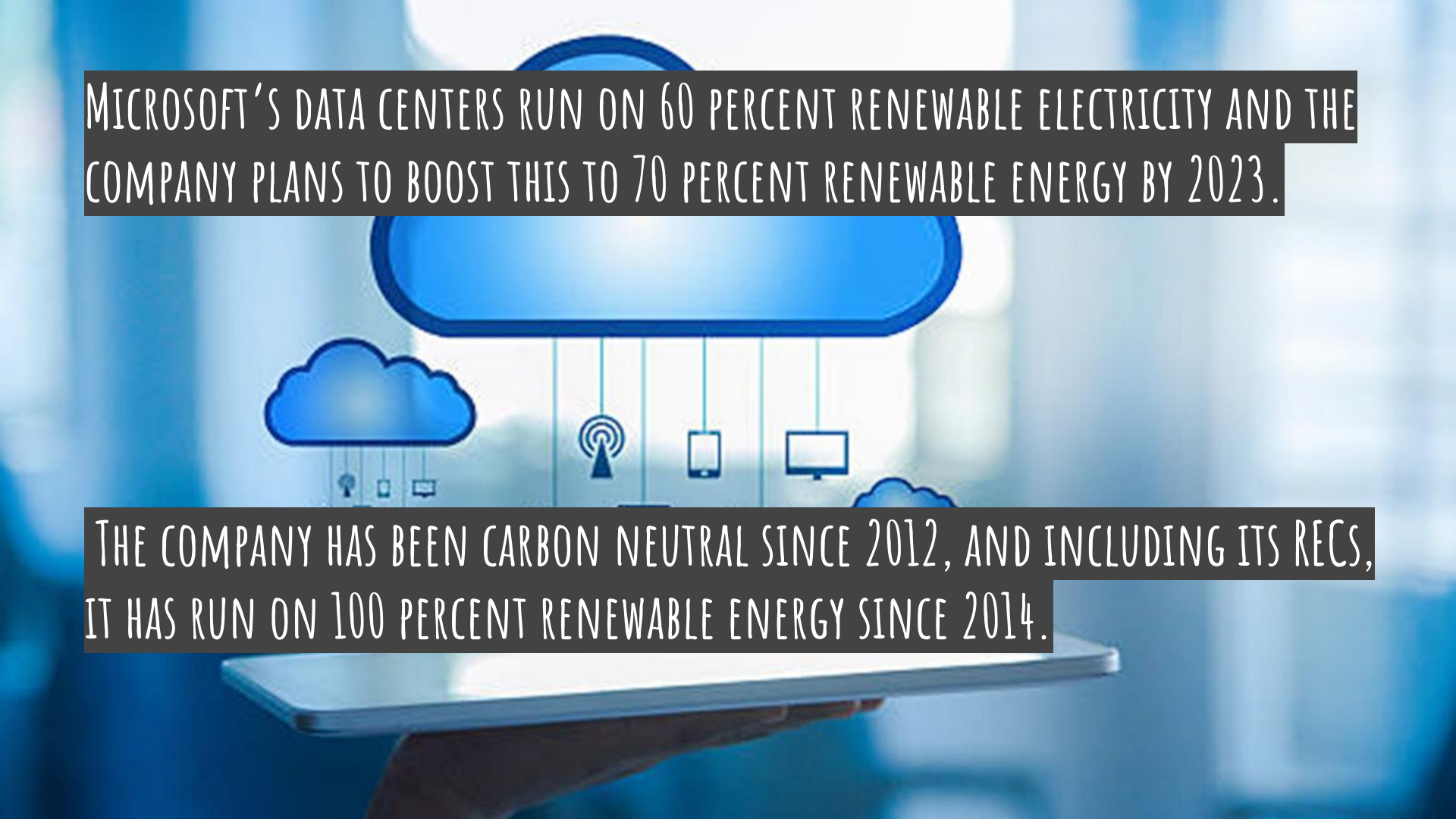
MITIGATION

EFFICIENCY

ELECTRICITY FROM RENEWABLES

CARBON CREDITS





MICROSOFT'S DATA CENTERS RUN ON 60 PERCENT RENEWABLE ELECTRICITY AND THE COMPANY PLANS TO BOOST THIS TO 70 PERCENT RENEWABLE ENERGY BY 2023.

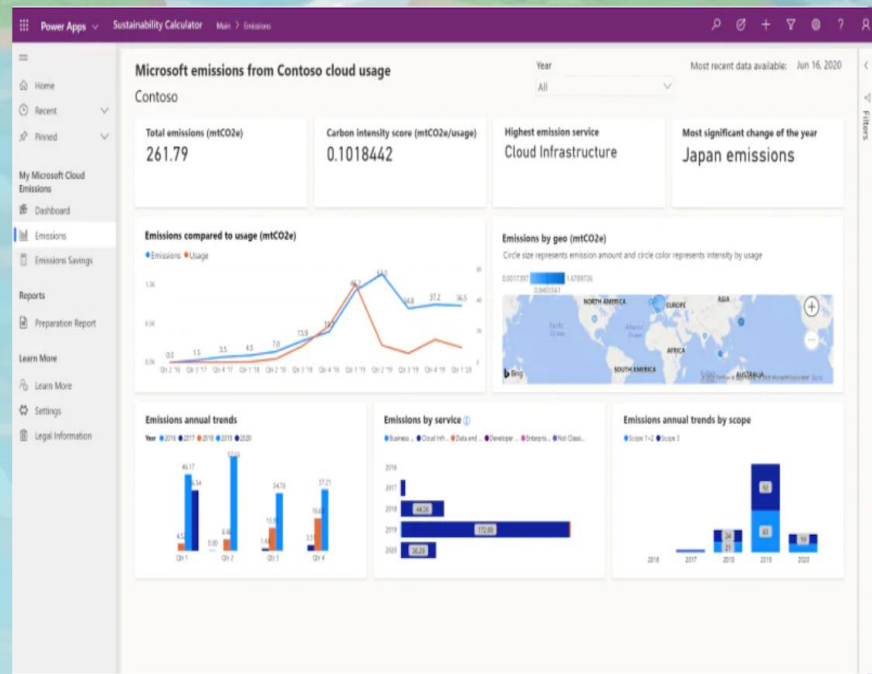
THE COMPANY HAS BEEN CARBON NEUTRAL SINCE 2012, AND INCLUDING ITS RECS, IT HAS RUN ON 100 PERCENT RENEWABLE ENERGY SINCE 2014.

# UNIQUE EMISSIONS REPORTING CAPABILITIES

## Better understand the impact of cloud usage on your emissions

Get insights into your organization's carbon emissions related to Microsoft cloud services with this sustainability transparency solution.

- Gain visibility using a sustainability dashboard to understand greenhouse gas emissions associated with Dynamics 365 and Azure cloud usage.
- Learn the root cause of emissions changes by tracking actual and avoided emissions over time.
- Measure the environmental impact of Microsoft cloud services on your carbon footprint with consistent and accurate carbon accounting.
- Calculate how to further reduce emissions by moving additional applications and services to the cloud.





# TEAM STRUCTURE

Internal Stakeholders/Clients



Logistics



Business



VP

External Stakeholders/Clients



Client VP



Client Dev



PM



DevOps



Engineer



Developer



Developer



Lead Dev

Internal Stakeholders/Clients

External Stakeholders/Clients



Logistics



Business



VP



Client VP



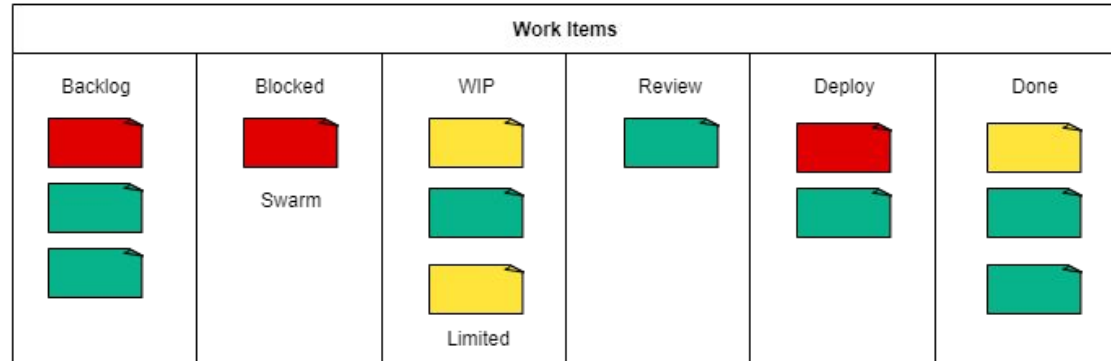
Client Dev

# SCRUMBAN:

- CONTINUOUS FLOW
- STANDUP
- SWARM BLOCKERS
- WIP LIMITS
- EVENT DRIVEN
- ON-DEMAND PRIORITIZATION



PM



Lead Dev



Developer



Developer

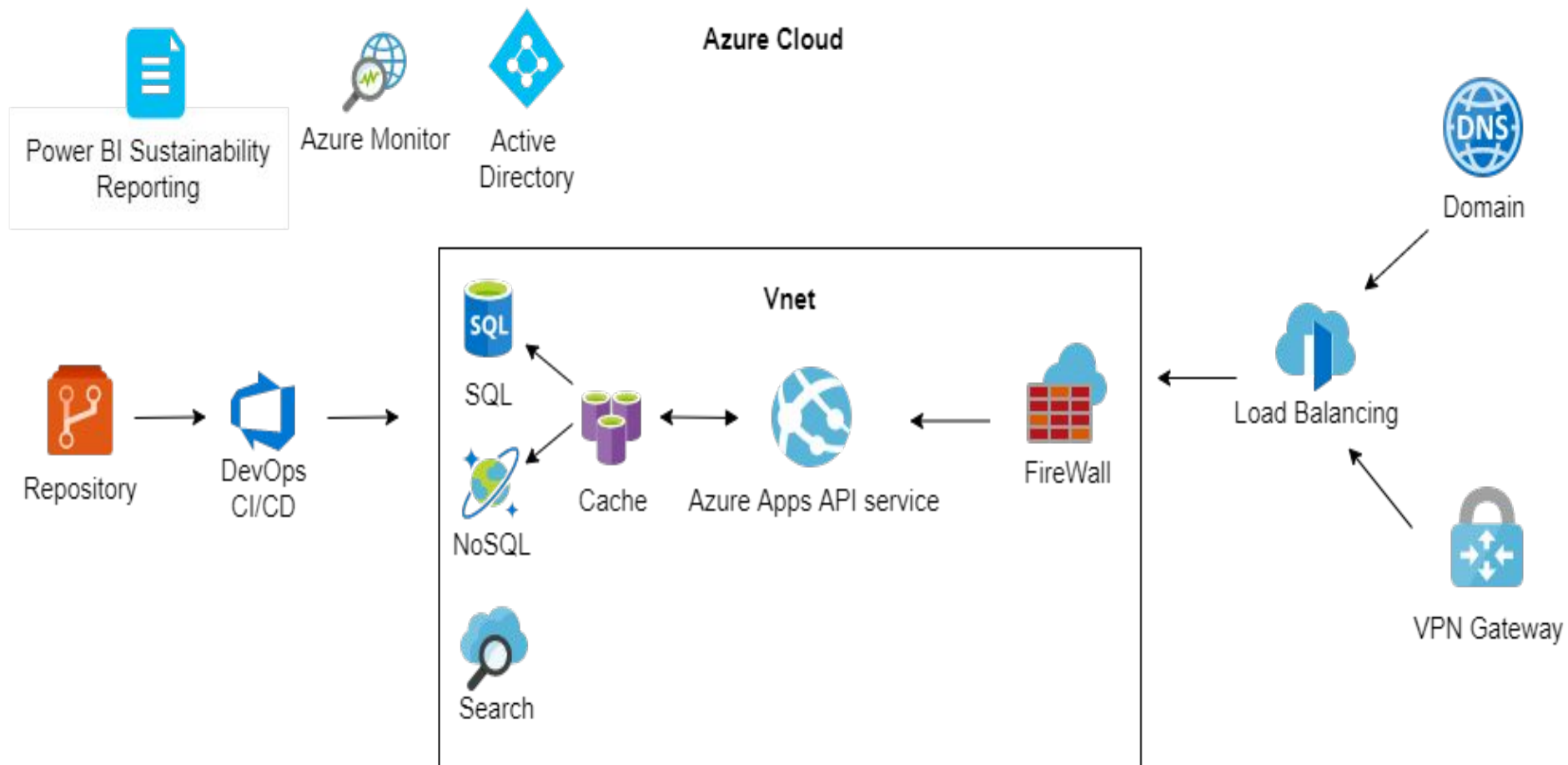


Engineer



DevOps

## Azure Cloud



# TOOLS AND TECHNOLOGIES:

- PYTHON & FASTAPI WITH SWAGGER
- TERRAFORM + AZURE DEVOPS FOR CI/CD
- LINUX DOCKER IMAGES DEPLOYED TO AZURE API APPS
- ABLE TO MOVE TO MANAGED KUBERNETES.
- POWER BI + SUSTAINABILITY CALCULATOR
- AZURE MONITORING
- FRONT DOOR LOAD BALANCING