

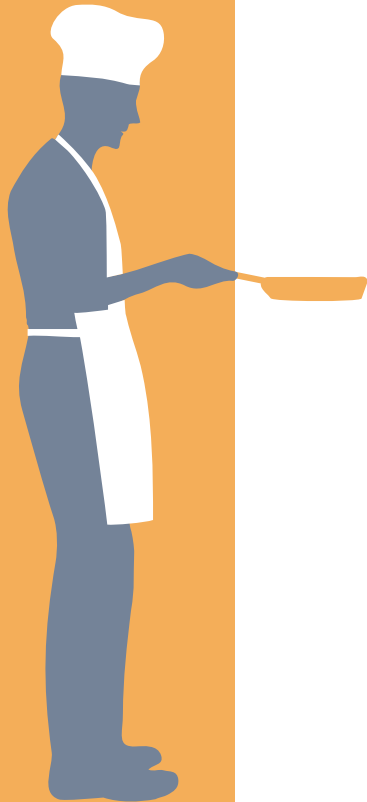
# The CIO's Cookbook

## Connectivity

# Leading Thoughts

- 1 Hybrid IT cloud architecture will require both traditional and software defined network designs to co-exist
- 2 Digital transformation needs new-age network, which necessitates mindset shift and significant re-skilling
- 3 The rigid, manual and cost prohibitive traditional network needs to be replaced by agile, automated and internet based network designs
- 4 Threat and performance management requires NOC and SOC orchestration

# Considerations



- 1 | Redesign network to support hybrid cloud and modernised virtual infrastructure with container-centric development
- 2 | Modernise monitoring to monitor services and assets on-prem as well as cloud
- 3 | Enable Zero Trust, Network Access Control, SDP & SD-Security to secure Infrastructure
- 4 | Replace MPLS with SDWAN technology to reduce cost for Hardware and Circuits and central management
- 5 | Enable Self-Service IT capabilities & evolve ITSM capabilities, for example IP Address provisioning
- 6 | Re-skill staff with certain skills like Python, Ansible, vRealize to automate Network Infrastructure & build Infrastructure-as-a-Code
- 7 | Implement a cloud enabled voice and tele-conferencing collaboration suite
- 8 | Asses and implement governance control mechanism over public cloud deployments

# Ingredients of a Hybrid DC Strategy

## Skills



- Develop scripting and automation skills
- Formal software development practices
- Protect legacy skill sets

## IT Management



- Integration of DC and Cloud management
- Service brokering
- Artificial Intelligence & Machine Learning

## WAN



- Cloud becomes “Center of Gravity”
- More bandwidth, less latency
- Higher reliability
- Dedicated cloud connections

## Infrastructure



- Software-Defined Infrastructure
- Converged/Hyperconverged Infrastructure
- Compostable Infrastructure
- Infrastructure APIs

## Automation



- Automation directly from applications via APIs
- Automation of application delivery
- Automation of management tasks
- Policy enforcement



Source Credit: Gartner