Cloud Virtual Datacenter

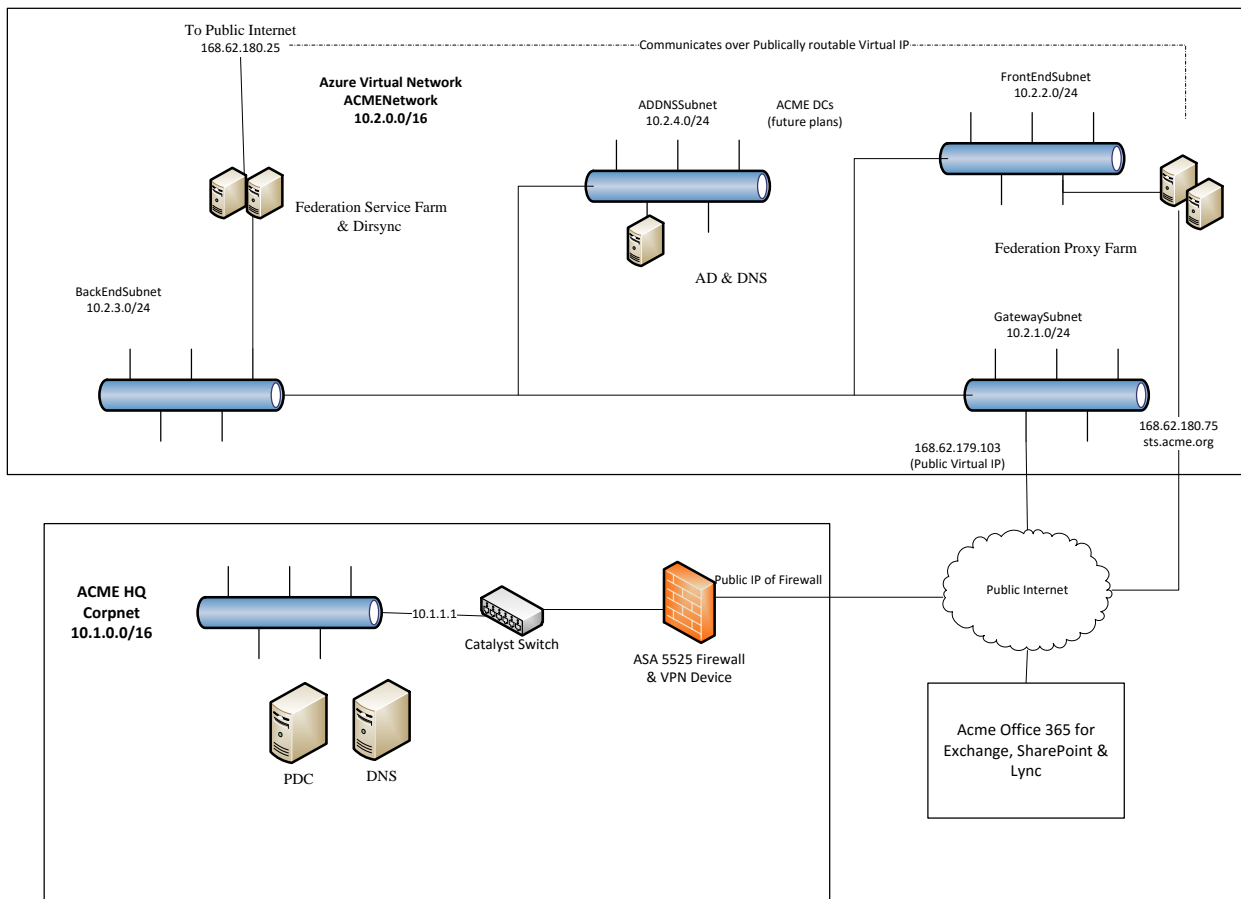## Stratus Innovations Group, LLC

Ron Savoia, Managing Partner

Virtual Datacenter Solution Offering

As part of our continued innovation in developing Cloud-related IT service offerings, we have recently brought to market an offering that will allow organizations to quickly scale their IT infrastructure safely and securely in a Cloud-based model.   This solution allows organizations to provide various high-availability and disaster recovery IT infrastructure services such as Active Directory, DNS, File Services, SQL-based applications, Web server applications, and Active Directory Federation Services (ADFS v2.0, for Single Sign-on support for other Cloud Services such as Office 365).

This can be valuable to organizations in providing HA/DR solutions for core IT infrastructure as well as providing IT services for remote locations to eliminate hardware purchases and hardware maintenance activities and costs.

Virtual Datacenter IT Architecture

To Public Internet
168.62.180.25

Communicates over Publically routable Virtual IP

**Azure Virtual Network
ACMENetwork
10.2.0.0/16**

ADDNSSubnet
10.2.4.0/24

ACME DCs
(future plans)

FrontEndSubnet
10.2.2.0/24

Federation Service Farm
& Dirsync

AD & DNS

Federation Proxy Farm

BackEndSubnet
10.2.3.0/24

GatewaySubnet
10.2.1.0/24

168.62.179.103
(Public Virtual IP)

168.62.180.75
sts.acme.org

**ACME HQ
Corpnet
10.1.0.0/16**

10.1.1.1

Catalyst Switch

ASA 5525 Firewall
& VPN Device

Public IP of Firewall

Public Internet

PDC

DNS

Acme Office 365 for
Exchange, SharePoint &
Lync

Azure Virtual Network

The Azure Virtual Network acts to create a virtual private network so you can extend any of your IT infrastructure services to be hosted in Windows Azure. The key to making this happen is the configuration of the Azure Virtual Network Gateway, in which you provide the IP address of your on-premise firewall and configure this firewall with a script provided by Azure.   Once this IPsec VPN connection is in place between your on-premise network and Windows Azure via this Gateway, any IT services in Azure can reach your corporate network IT services (and vice versa) without opening ports on your firewall. This allows a safe, secure, and private connection to your Cloud-based resources.

Implementation Timeline

We have developed "templates" for provisioning a Virtual Datacenter environment, which provides us the ability to have a custom Virtual Datacenter environment into production for customers in as little as one to two weeks. Finally, once this environment is setup, deploying additional IT services and IT infrastructure can be completed in the matter of minutes.

Solution Investment

This solution involves investment in the two areas:

- Fixed fee professional services contract for our services to design, develop and deploy your Virtual Datacenter. This included knowledge transfer to your IT staff for your organization to become self-sufficient on this environment. We do offer retainer contracts if needed for on-going support
- Monthly "pay as you consume" service fee to Microsoft Windows Azure for their Cloud services (VMs, disk space, and bandwidth).