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The bridge to possible

Designing an agile and secure multi-tenant X-As-A-Service Data Center Infrastructure

Designing a Next Generation Services Platform

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Agenda

- The Challenge
- Start with a strong foundation!
- Dynamically expand as necessary.
- Automation and Analytics
- Conclusion

The Challenge



Customer Challenge

- Start with small Proof of Concept Deployment but consider explosive growth in first 24 months
- Need a secure, multi-tenant infrastructure scalable to grow to multiple rows of racks at primary datacenter, and across multiple sites.
 - Managed Security as a Service
 - Virtual Environments for Security Modeling
 - Application Developers working to deliver more solutions as business grows
- Must be agile platform able to host multiple hypervisors, workloads and applications.

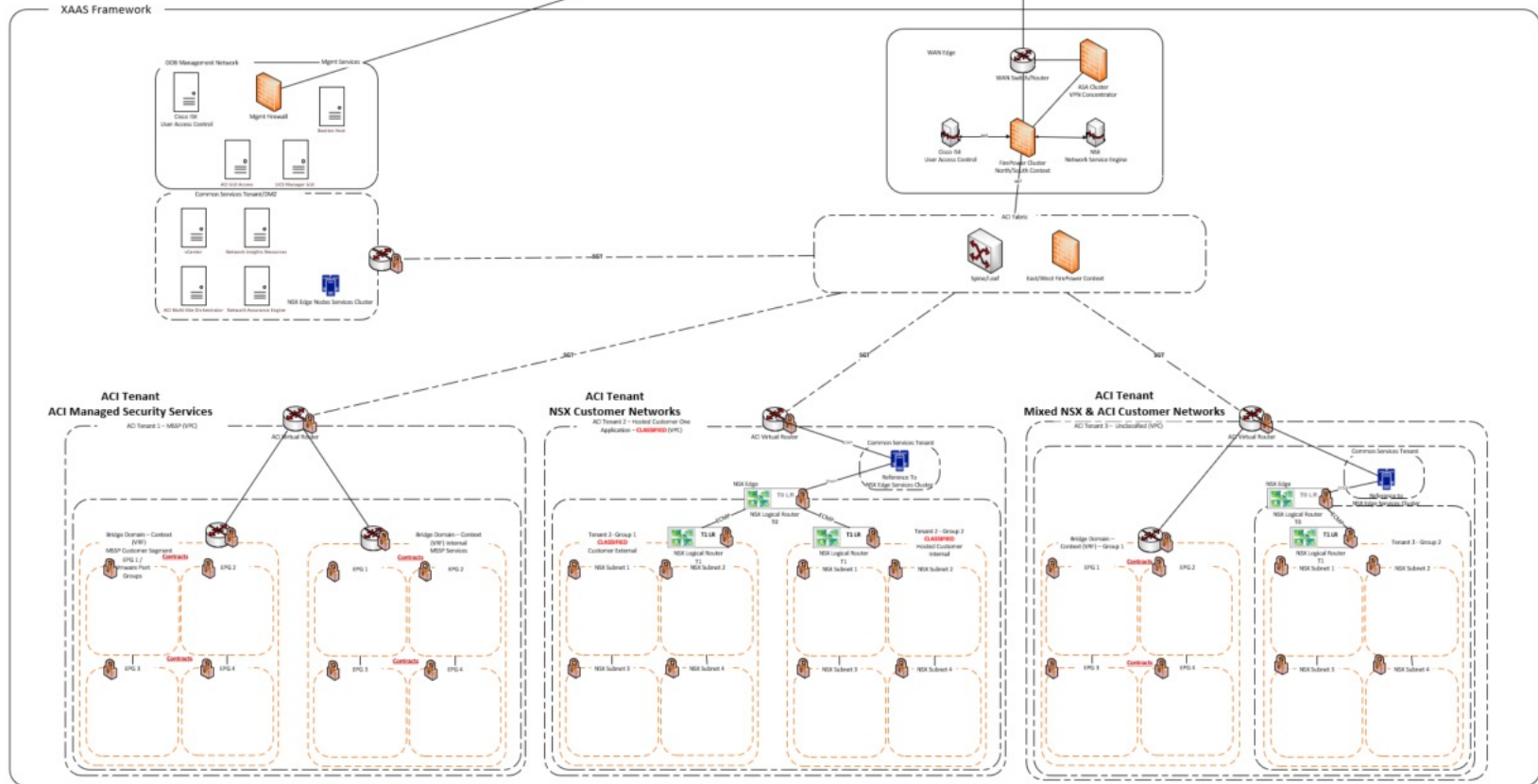
Start with a
strong
foundation!

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Data Center Foundation

Secure, Agile, Multi-tenancy



Dynamically
expand as
necessary.



Containers, Hypervisors, Bare Metal, Etc.

Let the Developers Develop

- Developers working in Containers supported by Cisco Container Platform
- Simple Integration with AWS, Azure, and Google
- Hyper-V, VMWare, Citrix, and Xen Virtualization
- OpenStack and NSX support for created nested virtual infrastructures



Automation and Analytics



Automation and Analytics

Work Smarter Not Harder

- Infrastructure Management
 - Nexus Dashboard
 - Network Assurance Engine – NAE
 - Network Insight Resource – NIR
 - Application Centric Infrastructure – ACI
 - UCS Intersight
- Workload Management
 - CloudCenter, AppDynamics, ISE
- Security Tools
 - Cisco Secure Workload Protection (Tetration)
 - Stealthwatch, NGFW
- API Integrations
 - Ansible, ServiceNow,



Conclusions

Conclusions

- The network was the foundation for a secure and agile service delivery platform.
- Let the business develop cutting edge technology while maintaining visibility and controls.
- Standardize and use available commercial tools to optimize productivity and maintain focus on keeping up with the new Business needs.



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Thank you

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