TAD

Business Requirements

Evaluation Considerations

- Needs to meet the performance requirements of our vendors, including monitoring and reporting of performance
- Needs to meet the security requirements of Information Security
- Needs to meet the availability requirements of the Firm, including DR verification twice a year
- Would like third party management for DR and offsite backup
- Would like to reduce complexity
- Would like to reduce CapEx costs into predictable OpEx costs
- Would like to easily scale both up AND down
- Would like to provide consumption reports for charge-back

Security Requirements

- Encryption at rest
- Micro-segmentation
- Audit logs
- Role-based authentication
- Lifecycle management plan

Availability Requirements

- No single point of failure
- Must have offsite DR
- Must have offsite backup
- DR and backups need to be verified at least twice a year

DR and Backup Requirements

- We currently have third parties who manage and monitor our backup as well as our DR infrastructure and testing
- We would like to extend those same capabilities into our cloud solution

Simplification Requirements

- Simplify network complexity by abstracting hardware acquisition, connectivity, and lifecycle maintenance via outsourcing
- Simplify server complexity by abstracting hardware acquisition and lifecycle maintenance via outsourcing
- Employ software defined networking for achieving micro-segmentation and DMZ zones
- Utilize “Infrastructure as Code” to provide executable documentation for change management, change tracking

Financial Management Requirements

- Avoid “depreciation debt” of 5 years for CapEx purchase
- Instead of the “5-year hit”, make the expenses predictable, consistent, and monthly

Scalability Requirements

- As new systems are brought online, the system should grow in scalable increments
- With SaaS being the Firm's preference, the solution should be able to "scale down" as more and more applications are moved out

Chargeback Requirements

- By providing detailed cost reports both before, during, and after a project, stakeholders and the Firm can make more informed decisions regarding project lifecycles
- Monthly use reports can make stakeholders more aware of those DEV systems they no longer need that have been maintained
- Depending on the solution, additional cost savings made be had through charge-back reports can assist in determining which systems do not need to remain online 24/7

Migration Prioritization

- Our current goal is to pursue SaaS first, PaaS second, IaaS as the last option to accommodate Firm-strategic plans
- For IaaS, our findings to date has shown that the infrastructure team should align ourselves with one of the major cloud providers (Amazon, Google, Microsoft) to future-proof the Firm
- We had performed a cloud economic assessment provided Microsoft that provided a proposed on-ramp
- We hoped to purse a 6 to 8 week POC to prove out the viability and then if successful that, if successful, would result in all net-new systems being deployed to public cloud and migrate existing workloads using one of our integration partners
- Challenge: how do we pay for building a parallel datacenter while carrying the overhead of the existing investments?

Migration Server Portfolio

- Using Azure Migrate statistics, Movere, Block64, etc.