REBOOT

Hyper-V Replica

Ravikanth Chaganti
MVP, Windows PowerShell
Founder, PowerShell Magazine
Founder, PowerShell Learning
@Ravikanth

MVP Microsoft Most Valuable Professional

Agenda

- Introduction
- Architecture and Components
- Demo
- Capacity Planner for Hyper-V Replica
- Hyper-V Recovery Manager (Azure)
- Key Takeaways

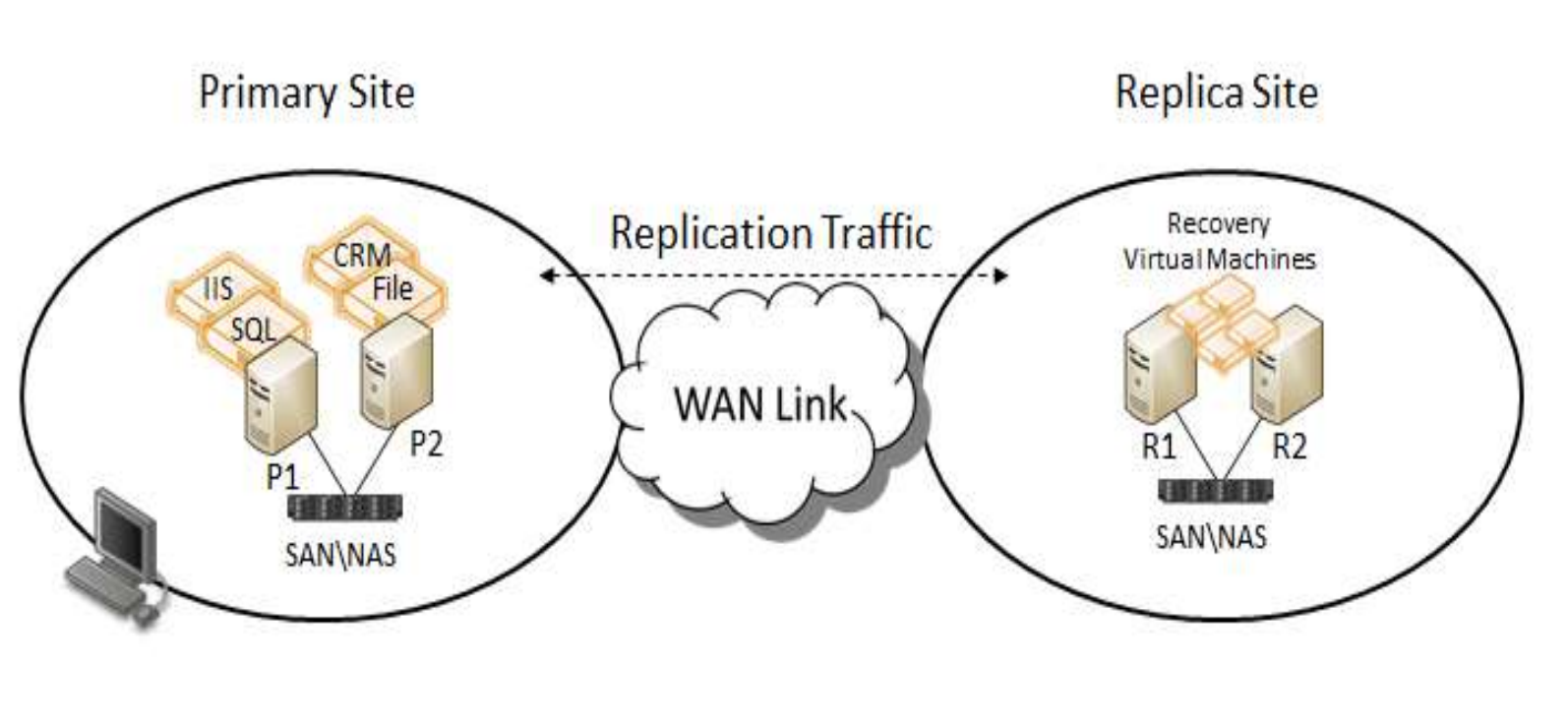
MVP
Microsoft Most Valuable Professional

Before We Get Started …

- High Availability vs Disaster Recovery
- RPO and RTO
- Synchronous vs Asynchronous replication

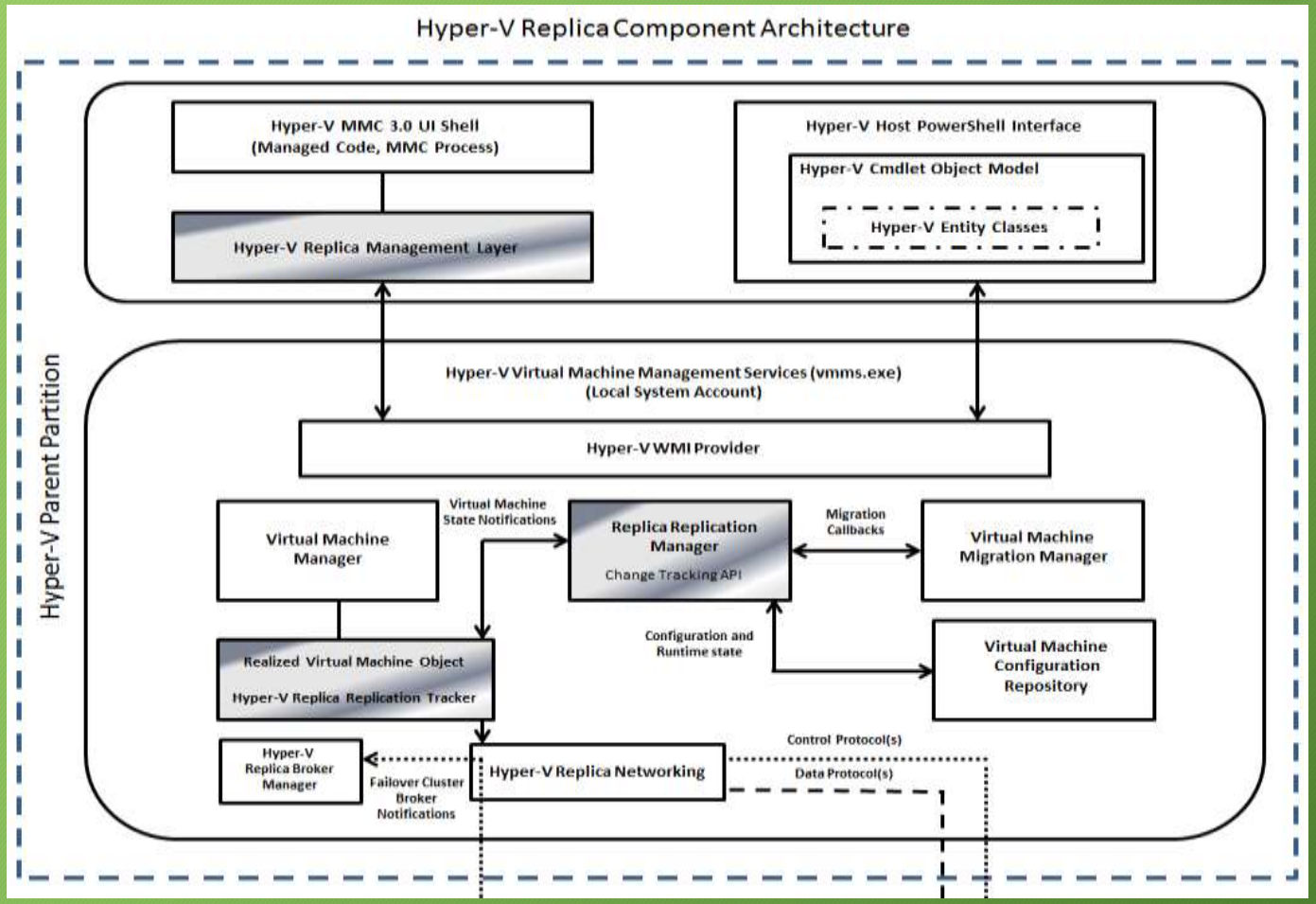
MVP
Microsoft Most Valuable Professional

Introduction



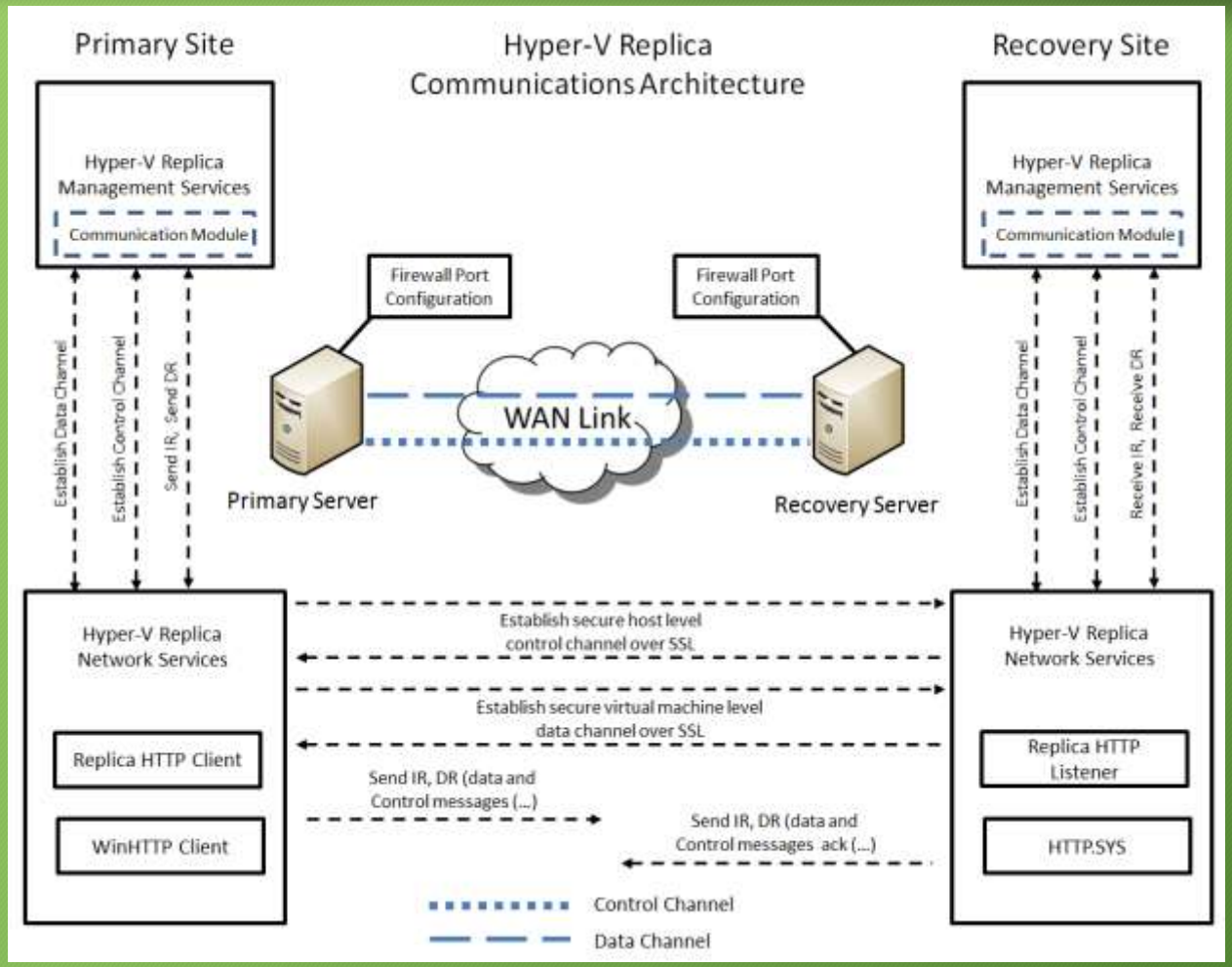
MVP
Microsoft
Most Valuable
Professional

Component Architecture



MVP
Microsoft Most Valuable Professional

Communication Architecture



MVP
Microsoft
Most Valuable
Professional

Terminology

- Primary and Replica Servers
- Planned Failover
- Test Failover
- Failover
- Standard Replica
- Application-Consistent Replica
- Extended Replica
- Hyper-V Replica Broker

MVP Microsoft Most Valuable Professional

REBOOT

Demo

Replica Configuration, Planned Failover, and Replica Monitoring

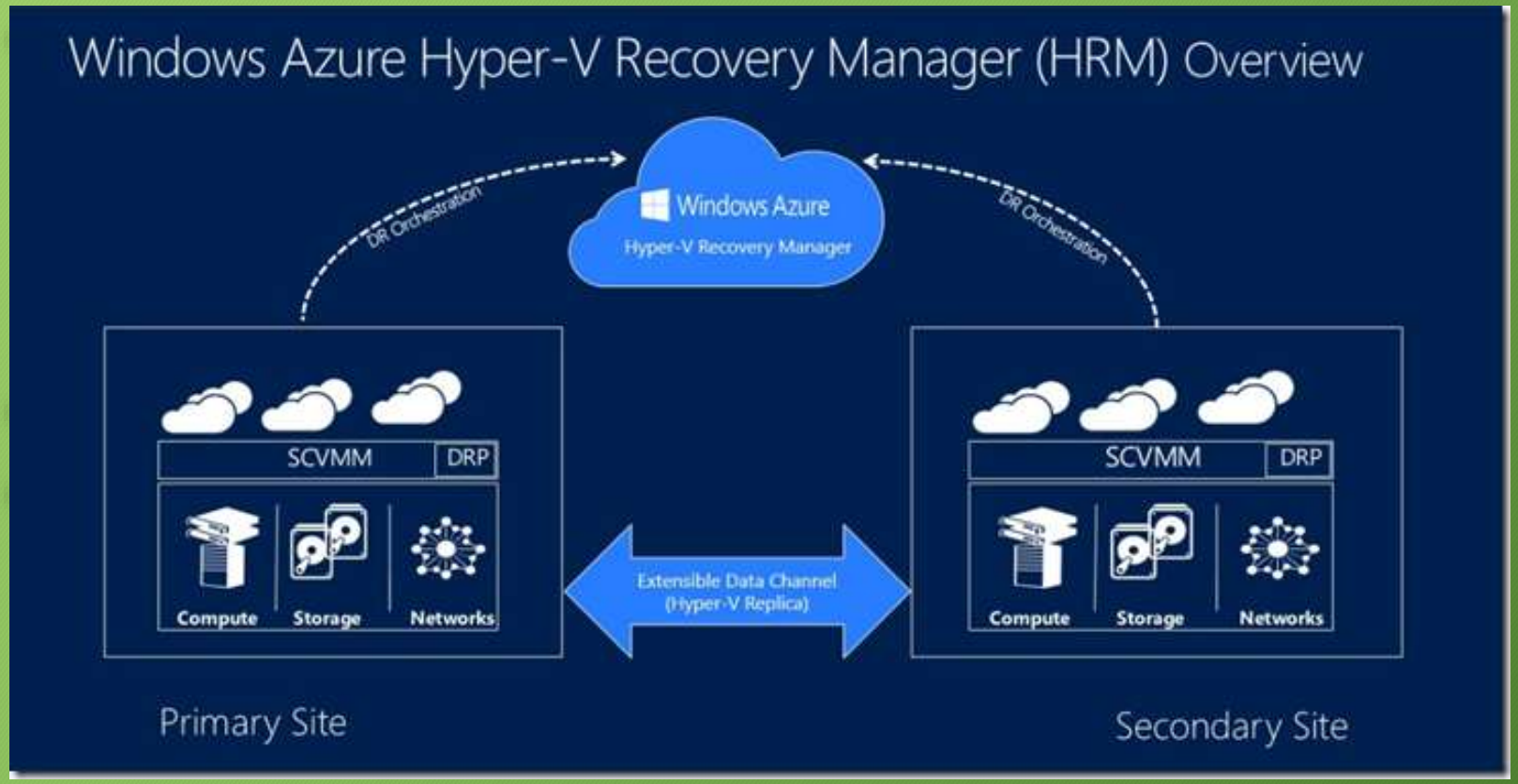
MVP Microsoft Most Valuable Professional

Capacity Planner

- Free tool to design Server, Storage, and Network Infrastructure
- Monitors actual production environment
  - Very less overhead (~2%)

MVP
Microsoft Most Valuable Professional

Hyper-V Recovery Manager



MVP
Microsoft
Most Valuable
Professional

Takeaways

- Plan Replica deployment
- Not all applications support replica
- Evaluate Azure HRM

MVP
Microsoft Most Valuable Professional