HELPING YOU SOLVE THE BIGGEST HYBRID CLOUD CHALLENGES

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SOLVING THE TOUGHEST HYBRID CLOUD CHALLENGES.

**Plan**
- Rationalize app portfolio
- Identify dependencies & transaction flows
- Analyze mainframe apps
- Develop move groups

**Execute**
- Load test for scalability
- Correct security vulnerabilities
- Offload mainframe workloads
- Move servers

**Operate**
- Monitor performance & automatically remediate issues
- Handle backup & recovery
- Protect sensitive data
- Streamline data compliance
THE BEST TOOLS FOR MAXIMIZING THE VALUE OF AZURE.

Plan

**MERCURY**
- PPM Center
- Universal Discovery
- Enterprise Analyzer

Execute

- LoadRunner
- Fortify
- Enterprise Manager
- PlateSpin

Operate

- Data Protector
- Operations Bridge
- Secure Content Manager
RATIONALIZATION AND PLANNING
IDENTIFYING MOVE GROUPS

In order to transform your data center, you need to understand it

- Typical Transformation Initiatives
  - Modernization
  - Workload migration to cloud
  - Consolidation
  - Outsourcing
  - Compliance programs
  - Cyber security programs
- What is at Risk?
  - Potential disruption of services
  - Delays in implementation
  - Unnecessary or prohibitive costs

Who knows about this application?
What will happen if I turn this off?
What is being used?
What is connected?
Where are my users?
What are the traffic patterns?
DEVELOP THE TRANSFORMATION ROADMAP

Assess applications to make smart choices about cloud transformation

1. **Understand**
   - Strategy and Scope
   - Business & IT Context

2. **Analyze**
   - Application baseline

3. **Recommend**
   - Gap Analysis and Future State Recommendations

4. **Plan**
   - Roadmap and business case

Application Portfolio Management” drives fact-based decisions and establish ongoing portfolio management

In Partnership With:

Project & Portfolio Management Center (PPM)
MICRO FOCUS APPLICATION PORTFOLIO MANAGEMENT (APM) TOOL
Provides Visibility within the Application Relationships & Processes

• Key capabilities
  • Model business processes and map to supporting applications
  • Access risk, technical and functional quality
  • Rationalize redundant applications
  • Manage and Govern your Cloud Transformation Roadmap

Understand cost, quality, redundancy, risk, and value
Visualize information flow and dependencies throughout the portfolio
Insight into usage and ownership by business process and organization
Identify TCO of the application environment
HOW OUR DISCOVERY SOLUTION WORKS

1. **Analyze network traffic**
   - P to IP network traffic.
   - Complement with CMS info.

2. **Remove the noise**
   - Remove admin communication (e.g. backup).

3. **Analyze & visualize**
   - Auto define migration clusters.
   - 2D & 3D server mapping.

Faster Discovery

Less Expensive

Less Risk
MICRO FOCUS “SMART DATA CENTER ANALYTICS” SOLUTION

Automated discovery of the relationships between end-users, applications and infrastructure services with customizable analytics & dashboards.

- **Key Value Points**
  - Fast Buildup of the Data Center topology maps without reliance on application / infrastructure owners.
  - Eliminate of risk associated with prevailing manual approaches.
  - **Enables application assessment to happen 85% faster, 50% cheaper with 90% less error(1).**
  - Use application interaction metadata to create maps of migration groups (move to Cloud or move data center).
  - Identify and decommission zombies(2) in the Data center and save money in support, licenses and energy.
  - Right-sizing analysis for cloud (AWS/Azure cost reduction)

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(1) Compared to an application assessment model which relies on availability of Application owners and questionnaires
(2) Servers and Applications that are being monitored, patched, and backed up, but that do nothing of business value
MOVING MAINFRAME APPLICATIONS

- Legacy applications have unique cloud transformation challenges
- **Make informed planning decisions by identifying key application dependencies**
- Restore lost knowledge
- Eliminate inefficiencies by removing redundancy and duplication
- Provide understanding at the point of change to reduce errors
- Facilitate rapid training / expertise
EXECUTING THE MIGRATION
CLOUD ADOPTION IS INCREASING RAPIDLY

Enterprise-class businesses whose migration strategy is lift and shift only 68%
SERVER “WORKLOAD” MIGRATION WITH:

What it is: moving an entire server “workload” from one platform to another:

- Physical to Cloud (P2C)
- Physical to Physical (P2P)
- Virtual to Virtual (V2V)
- Virtual to Cloud (V2C)
- Anywhere to anywhere (X2X)

What it is not: anything else, for example:

- Migrating applications to another OS
- Operating System upgrades
- Application upgrades
- Data migrations
- SAN migrations
- Hypervisor upgrades (in-situ)
Mainframe to Azure Workload Migration

- **Flexibility**: Parallel development at scale
- **Traceability**: on the 'package' level
- **Synchronization**: with mainframe for deployment to host
- **Application Analysis at point of change**
- **Impact Analysis and coding standards**
- **Efficient mainframe development with modern tooling**
- **Local compilation and testing for fast feedback**
- **Integrated into agile tool chain**

- **CI Process driving automated Build**
- **Spin up mainframe test instances on demand**
- **Automated testing and feedback to developers**

- **Proven Highly available Production Server**
- **Scale up instances and capacity on demand**
- **Multi-platform Linux, Windows, Docker**

**Applies to:** Rehost Strategy
VALIDATING PERFORMANCE
LOAD TESTING FOR SCALABILITY

• Performance testing is a must for workload migrations
  • Micro Focus has a rich portfolio of enterprise testing tools
  • FedRAMP compliance
  • Cloud or SaaS or On-Prem
LoadRunner Cloud is a cloud-based solution that makes it easy to plan, run, and scale performance tests without the need to schedule, deploy, and manage load generators.

simple | smart | scalable
HIGH SCALABILITY AT LOWEST TCO

- 5M+ virtual users
- Flexible license, pay as you go
- Private or public cloud load generators
- Real world locations via AWS or azure
- Automatic load generators upgrades and clean up
PREDICATIVE ANALYTICS FOR ROOT CAUSE ANALYSIS

- Real time results with anomaly detection
- Client, network and server side breakdown report
- Trends and compare merge, split, filter errors by code
- Integration with APM tools - site scope, new relic, Dynatrace and Appdynamics
- Offline results reporting. Export to word, pdf or csv
ADDRESSING SECURITY
**DYNAMIC APPLICATION SECURITY TESTING (DAST)**

**Benefits:**
- Provides a comprehensive view of application security by focusing on what’s exploitable and covering all components (server, custom code, open source, services)
- Enables a broader approach to manage portfolio risk (1000s of applications) and may scan legacy apps as part of risk management
- Tests functional app, so unlike SAST, is not language constrained and runtime and environment-related issues can be discovered

**What is Dynamic analysis?**
Simulating attacks on a running web application or service to identify exploitable vulnerabilities.
ENSURING RELIABILITY & PERFORMANCE
MICRO FOCUS HCM AND HPE PROLIANT FOR MICROSOFT AZURE STACK

The Hybrid Cloud Management product – enables customers to deploy either on public cloud (e.g. Azure) or on private cloud (Azure Stack) from a single pane of glass.

Hybrid Cloud Management

HCM integration plugin for HPE AzureStack helps provision Azure compatible workloads locally on AzureStack

- Azure IaaS services: Compute, Storage (blob, queue, table), Network (Load Balancer, Virtual Networks etc)
- Azure PaaS services: SQL, MySQL, App Service
- Azure Stack Marketplace Solutions
- OS Images: Windows, Linux
- ISV Solutions: Arista, Barracuda, F5 and others
- Cassandra, CommVault, Hadoop, Jenkins, ZeroDown

Workload Provisioning

DevOps Automation

Provide resources for DevOps teams

- Operate multiple Azure stack systems
- Create custom catalog with DevOps admins
- Create/design automated workflows designs for on-demand provisioning workload infrastructure environments
- Provision and control service offerings with resource quota
- Monitor, control consumption, utilization

Self Service Resources

Enable end users to self service resources

- Subscribe as needed
- Resource consumption monitoring

Full Stack Service for High Availability

Enabling workload high availability for Azure Stack implementations

- High availability within same or redundant instances of Azure Stack managed by an application load balancer layer.
- HCM keeps workload instances in sync
POST-MIGRATION PERFORMANCE MONITORING

Hybrid cloud services visualized and monitored with Operations Bridge

- Domain-specific customizable event roll-up to attract operators' attention
- Service tree automatically populated for Public and private Azure topologies
- KPI grouped into domain and customizable health indicators
- Context aware event browser showing root cause
- Customizable domain specific performance analytics dashboards group and visualize all data for the chosen domain

Screen Capture Source: Operations Bridge
MICRO FOCUS DATA PROTECTOR
Backup and disaster recovery for large, hybrid, distributed enterprises

- **Application-consistent backup** for fast recovery of mission-critical applications
- **Advanced virtual environment protection** for comprehensive support of virtual machines
- **Data security and enterprise class scalability** for standardized protection across complex environments
- **Best-in class platform and cloud integrations** for better infrastructure utilization and higher performance
- **Integrated disaster recovery** for a flexible, built-in centralized bare metal recovery
- **Analytics, automation and orchestration** for reducing manual tasks and improving insight into backup
SINGLE MANAGEMENT OF ENTIRE BACKUP ENVIRONMENT

Manage all clients, licenses and devices from a single dashboard

Get a quick status on the sessions and their success

See how much data is under protection and the typical transfer size

Check the backup session flows and statistics
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