Today’s IT business applications are complex and deployed across hybrid infrastructure. They can span multiple clouds at hyperscale making it impossible for human minds to contextualize and correlate all the potential causes of application slowdowns.

Infrastructure issues must be resolved in near real-time to avoid impacting the business and its customers. This is where Artificial Intelligence for IT Operations (AIOps) helps teams deal with the exponentially increasing scale of infrastructure related big data.

**WisdomAI: The Brains Behind VirtualWisdom**

WisdomAI is the AI-powered intelligence that underpins the industry leading VirtualWisdom AIOps engine. It empowers you to take a proactive approach to analyzing health, performance and capacity data within the context of the applications it serves.

WisdomAI enables you to avert infrastructure issues by providing actionable recommendations that assure SLAs, capacity utilization and enable optimal balancing of infrastructure workloads before they impact business-critical applications.
VirtualWisdom delivers the critical management capabilities, based on WisdomAI, that you need to proactively manage your hybrid infrastructure in service of your applications regardless of where they are deployed.

### Key Features

**Discovery & Mapping**

- Understands where the applications are deployed, their business importance, how they utilize infrastructure, real-time service levels, and changes.

**Agentless Monitoring**

- Plan future application workload deployment. Proactively measure capacity usage, and predict when your servers, storage and SAN will reach exhaustion.

**Performance Metrics**

- Proactively and continuously balance workloads across your virtualized servers, HBAs and storage ports. Analyze workloads and perform what-if analysis in the lab.

**Capacity Metrics**

- Automatically eliminates noisy alarms, correlates and ranks potential root causes, tracks resolution status, and makes actionable recommendations for problem resolution.

### Key Features

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<tr>
<th><strong>Discovery &amp; Mapping</strong></th>
<th><strong>Agentless Monitoring</strong></th>
<th><strong>Performance Metrics</strong></th>
<th><strong>Capacity Metrics</strong></th>
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<tr>
<td>- Proactive app and infrastructure dashboards</td>
<td>- Capacity and utilization dashboards</td>
<td>- Proactive workload balancing recommendations</td>
<td>- Automatic alarm noise reduction</td>
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<td>- Application impact Seasonal behavior analysis</td>
<td>- Capacity forecasting for compute, network and storage</td>
<td>- Workload analysis</td>
<td>- Anomaly detection</td>
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<td>- Application path optimization</td>
<td>- Predictive time-to-zero analysis for existing capacity</td>
<td>- VM coordination and placement</td>
<td>- Trend and pattern matching</td>
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<td>- Application-tier based policies</td>
<td>- Plan future application workload deployments based on existing workload profiles</td>
<td>- Network path &amp; queue optimization</td>
<td>- Cross-domain correlation</td>
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<td>- Application discovery and mapping</td>
<td>- APM and CMDB integration</td>
<td>- Storage Array front-end port balancing</td>
<td>- Automated and guided analytic runbook-based investigations</td>
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<td>- Collaborative discussions and status tracking</td>
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<td><strong>Application Assurance</strong></td>
<td><strong>Optimize Application Paths with Balance Finder</strong></td>
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</table>
| Analyze Seasonal Behavior and Season Trends | Analyzes workload behavior to identify seasonal behavior  
Identifies abnormal trends in workload behavior  
Predicts resource needs over time for a user-selected entity and metrics based on historical patterns  
Alerts based on deviation from the observed behavior | Analyzes data traffic and throughput of selected hosts to determine if the traffic is balanced  
Assures and optimizes host data multi-pathing  
Verifies HBA settings and recommends changes to multipath configurations |

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<th><strong>Predictive Capacity Management</strong></th>
<th><strong>Predict Capacity needs with the Capacity Forecaster</strong></th>
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</table>
| Predict Capacity needs with the Capacity Forecaster | Predicts time to capacity exhaustion for servers, VMs, networks and storage  
Reviews historical data to calibrate long-term and short-term usage trends to account for dynamic infrastructures |

<table>
<thead>
<tr>
<th><strong>Plan App Workloads with VM Deployment Advisor</strong></th>
<th><strong>Optimize Placement with VM Coordinator</strong></th>
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</table>
| Plan App Workloads with VM Deployment Advisor | Identifies the optimal cluster deployment for your new VMs for VMware, IBM or Microsoft  
Allows new application workloads to be templated against existing similar workloads |

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<th><strong>Workload Infrastructure Balancing</strong></th>
<th><strong>Balance Load Across Storage Ports with Storage Port Balancer</strong></th>
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| Optimize Placement with VM Coordinator | Proactively assesses your virtualized environment resource balancing  
Analyzes long term historical data to identify optimal moves of VMs in a cluster across CPU, memory and storage  
Avoids vMotion sickness by optimally re-balancing clusters using a revolutionary approach that tests every permutation and its impact |

| | Balance Load Across Storage Ports with Storage Port Balancer |
| | Assesses your storage array front-end ports and provides optimal re-balancing based on application workload importance and workload attributes such as block size  
Identifies overloaded storage ports & makes rebalancing recommendations, using intelligent decision-making to maintain parity, redundancy, & data groups |
## Application Assurance

**Recreate Workloads in the Lab with Workload Analysis**
- Analyzes and captures an application or host storage workloads for replay in the lab using Virtana WorkloadWisdom
- Provides realistic workload simulations to replay in a lab to assess and resolve issues or to test new configurations

## Predictive Capacity Management

**Optimize HBA Queues with Queue Solver**
- Analyzes your HBA interfaces and workloads read/write latency, to determine and recommend the optimal queue depth

**Detect and Prevent Anomalies with Event Advisor**
- Analyzes and structures events for accelerated problem remediation. Provides a prioritized list of events that impact infrastructure

**Correlate Across Domains with Trend Matcher**
- Correlates performance issues to the infrastructure responsible using trend analysis, pattern matching and app-centric topology
- Looks for specific issues in the infrastructure based on predefined or user created scenarios

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### Why you should be using VirtualWisdom to power AIOps in your organization

- Industry leading proactive and app-centric Hybrid IT Infrastructure management
- Proactive, Real-time monitoring and analytics from the data center to the cloud
- WisdomAI provides the machine intelligence and expert systems needed to make your AIOps initiatives successful

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