Right Sizing your Digital Transformation Strategy

Essentials

Right-Size Your Software-defined Data Centers:

- Understand the state of your production applications today
- Learn how application workloads stress your infrastructure across compute, network, and storage
- Optimize infrastructure to best balance performance and cost
- Know the scale out and scale up ceilings of your infrastructure
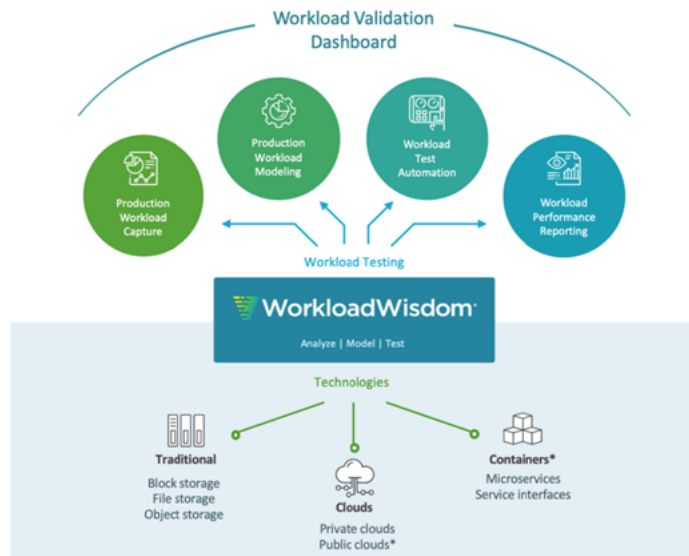- Find breakpoints for underlying application infrastructure

Assure The Performance Of Mission-critical Application Workloads:

- A proven methodology for capturing production applications, and modeling application operation with changes in workload and infrastructure.
- Analyze your production applications' workload profiles
- Create realistic temporal workload models based on your workload profiles
- Run tests iteratively by scaling up and scaling out workload models
- Compare test results across hundreds of what-if scenario simulations
- Make critical decisions with real performance results

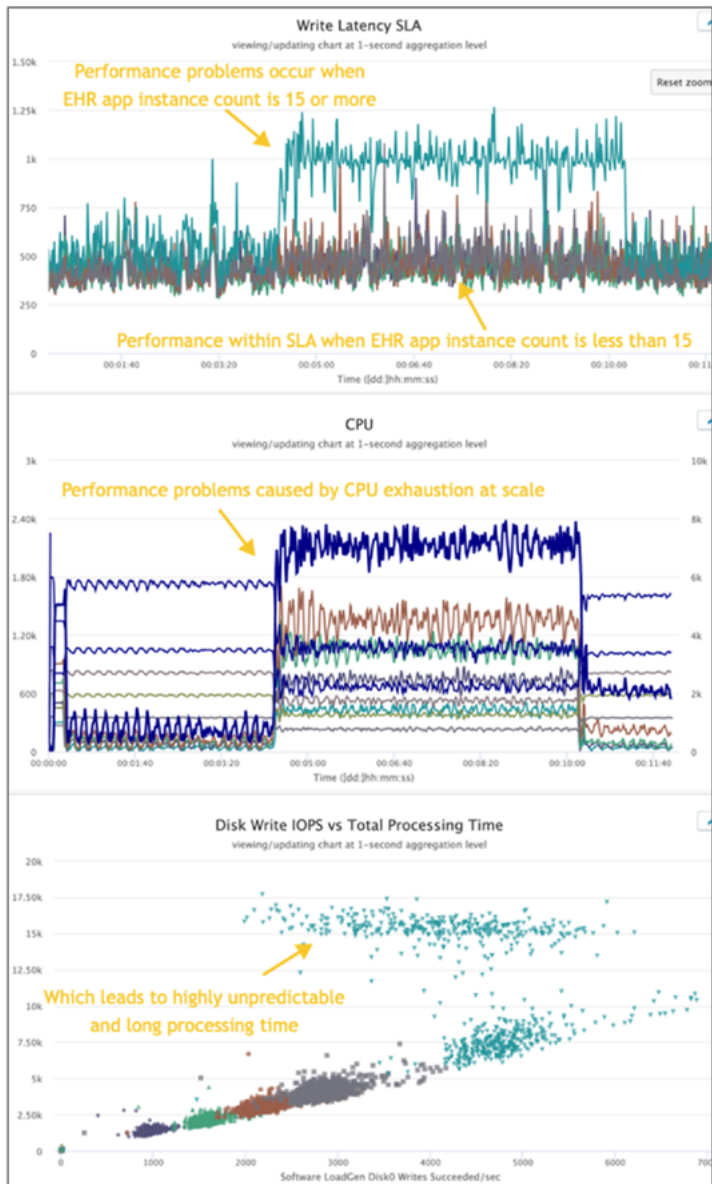## The Challenges Of Digital Transformation

Infrastructure teams have evolved their digital infrastructures across public and private clouds to deliver the on-demand scale, performance, and capacity needed to support digital transformation and innovation.

The software-defined data center offers application owners unprecedented benefits as applications can scale up and out on the fly as demands rise. However, the new layers of software abstractions embedded between the applications and the underlying infrastructure pose unfamiliar challenges for infrastructure teams when migration decisions are made with basic calculations on paper. A new method of pre-deployment assurance must be adopted to de-risk all new deployments and all workload migrations from the start, so that you can confidently make high impact decisions without overspend.

All-in-One Platform For Your Digital Transformation

WorkloadWisdom was designed from the ground up as a lifecycle workload management platform to analyze your production workloads, ingest them to create temporal and composite workload models, and then perform what-if analysis simulations from traditional infrastructures to cutting edge technologies to give organizations the data needed to make the best workload placement and migration decisions.

Write Latency SLA
viewing/updating chart at 1-second aggregation level

Performance problems occur when EHR app instance count is 15 or more

Performance within SLA when EHR app instance count is less than 15

CPU
viewing/updating chart at 1-second aggregation level

Performance problems caused by CPU exhaustion at scale

Disk Write IOPS vs Total Processing Time
viewing/updating chart at 1-second aggregation level

Which leads to highly unpredictable and long processing time

Assure performance of your workloads:

Every organization's workloads are different, even if it is the same application. The WorkloadWisdom platform ingests application workload profiles from your production environments, and creates realistic application workload models across compute, network, and storage to perform what-if analysis simulations in a pre-deployment environment. By methodically characterizing applications and empirically measuring an infrastructure's ability to support the applications, infrastructure teams can assure their infrastructure can meet application growth projections and workload variations.

Proactively manage the digital infrastructure lifecycle:

When integrated with an organization's change process, WorkloadWisdom enables infrastructure teams to manage both expected and unexpected changes that inevitably occur in the data center over time. With expected changes such as workload migrations and new technology deployments, or with unexpected changes such as gradual performance degradations or workload behavior changes, WorkloadWisdom enables teams to quickly control the situation by validating major change requests with your workloads in a safe environment before committing them to production, thus ensuring a successful outcome.

- Capture the workload profile of your applications and infrastructure sets
- Ingest the application workload profiles into Workload Wisdom to create realistic workload models
- Run realistic workload tests in a safe environment to validate change requests or new technologies
- Make decisions with data driven reports based on your workloads and your requirements

Learn more about WorkloadWisdom

Contact a Virtana Expert

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