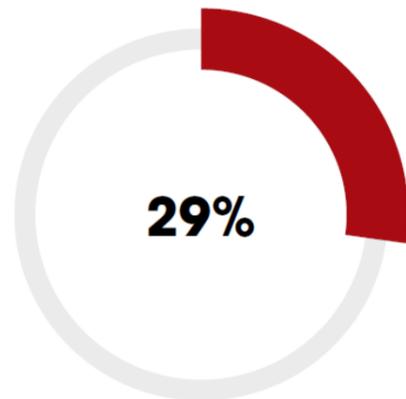


Capacity Planning as a Service (CPaaS)

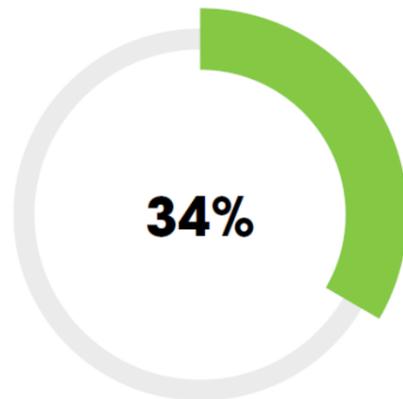
Why Capacity Planning is firmly back on the IT agenda

In a recent survey undertaken, planning a change to their IT infrastructure 34% admit they find it difficult accessing the necessary capacity information required to support major IT change. As a result, enterprises are putting their IT service capability at significant risk, with those surveyed acknowledging that capacity issues still account for nearly 30% of all critical outages.

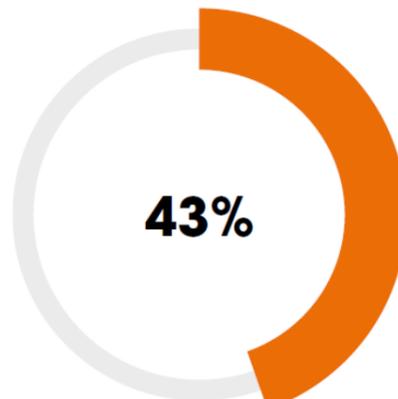
The lack of readily available capacity insight might not be so surprising given other key findings from the survey: although 55% of businesses are using capacity planning tooling, 45% say this is simply a spreadsheet, and although a majority believe that capacity planning is becoming increasingly important, nearly 40% perceive a shortage of skills and gap in their current capacity planning capabilities.



29% of critical outages are capacity related



34% of businesses don't have the vital capacity insight they need to de-risk change



43% of companies are increasing their investment in capacity planning

Easy accessibility to timely capacity planning information remains a huge barrier, with the time taken to collect, aggregate and present data often negating its currency and relevance. While new types of technology create more complexity in IT infrastructure, and business-driven change, along with the impact of methodologies like DevOps, continues to gain pace, even the task of collecting the necessary data to fuel an effective capacity planning capability is a major obstacle.

The emergence of cloud, which for the last few years has dominated IT discussions, has resulted in hybrid environments becoming the norm. While this allows organizations to have the best of both worlds—combining physical onsite infrastructure with both public and private-hosted cloud services—it significantly increases capacity planning complexity requiring a new breed of tooling and techniques.

Businesses need to be careful they don't just sit back and rely on vendor guidance, but maintain a level of independent control. Maintaining an effective capacity planning capability is key to this, ensuring the right platform choices and most cost effective provisioning are aligned to support changing business demand.

Establishing a strong capacity planning is the key to improving so many things, it is not only about reacting to problems and incidents; it's about helping enterprises put proactive measures in place that can help de-risk change, optimize IT investment and look at behaviors and trends that can help protect future business performance.

Capacity Planning as a Service (CPaaS) — a fresh approach

In today's complex, dynamic and heavily virtualized IT environments, it is increasingly difficult to maintain an accurate picture of your infrastructure capacity, and keep it aligned and optimized to changing business needs. Achieving visibility across your estate of resource demand and capacity headroom is a challenge—without it, it's impossible to accurately predict how much more or less infrastructure you are going to need for the future.

Whether you need to work out how best to support a growth in demand, or you're planning a technology refresh, consolidation or physical to virtual migration. You may even be ready for your first V2V platform migration.

Plan - derisk change

- Physical to virtual
- Technology refresh
- DC migration/consolidation
- Server consolidation
- Hardware comparison
- Onboarding new customers/demand

Run - baseline capacity

- Ongoing capacity reporting
- Understand current utilization
- Understand headroom for growth
- Predict potential future capacity
- DR assessment
- Chargeback/Showback

Optimize - rightsize capacity

- Rightsize for cloud
- Rightsize infrastructure
- Consolidate, optimize, decommission

Extend your planning horizon

In 3 simple steps our capacity planning solution with its advanced predictive modeling and powerful 'sunburst' visualization lets you quickly and accurately:

- Baseline your current estate and assess what you have today
- Scenario model all the options and evaluate the impact of change
- Decide your optimal plan for action and export as a report

Giving you unprecedented confidence to ensure the right resources will be deployed at the right time and the right cost.

To find out more about MentPro CPaaS Forward Thinking predictive capacity planning and using MentPro Capacity Planner, drop an email to info@mentpro.com or register for our CPaaS trial at our website at cpaas.mentpro.com, alternatively contact Alan Foley +27 82 852 6904



Capacity Planning as a Service (CPaaS)

MentPro Capacity Planner has transformed the way customers plan, run and optimize their IT Infrastructure, here are some of the benefits of CPaaS and why you should love it:

A step change in visibility of potential capacity issues

Most tools tell you what happened yesterday or what is happening now, a few even forecast imminent issues. MentPro Capacity Planner lets you see much further ahead.

Using sophisticated machine learning and pattern matching techniques, MentPro Capacity Planner extrapolates utilization data from across your infrastructure and forecasts when server and storage capacity issues will occur. Time series charts give you a detailed view onto both the relevant historic data and the forecast utilization profile, and provide a confidence level in that forecast.

This means you have days, sometimes weeks, of advance warning of potential problems letting you take mitigating actions rather than rely on urgent, and often disruptive, incident response.

An extended planning horizon into your IT future

MentPro Capacity Planner is the only product on the market that lets you accurately assess your future IT options and select the right way forward with confidence. Its powerful Forward Thinking scenario modeling lets you create as many 'what if' models as you like.

This means you can model strategic programs such as moving to the cloud, physical to virtual transformations, changing hypervisors or different platform options. You can play out commissioning new datacenters or decommissioning hardware. The list is endless.

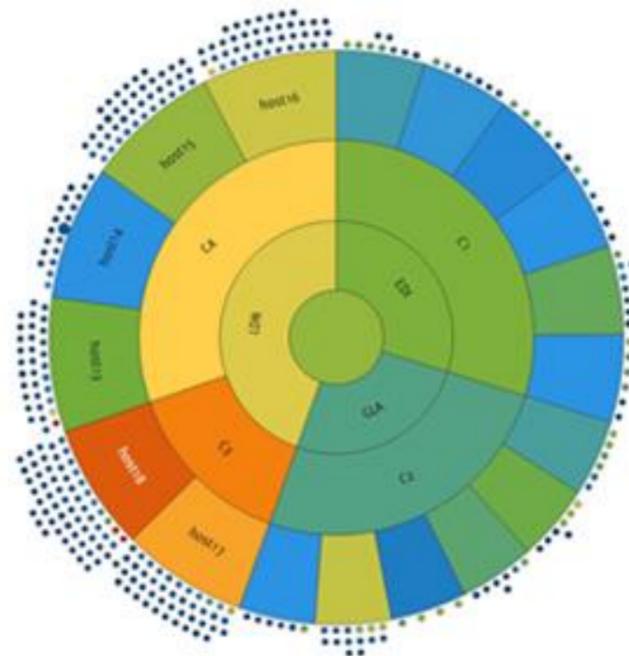
And because the modeling is based on real data from your environment, our proven statistical techniques provide accurate, quantified evidence you need to support any investment business case.

Disaster recovery planning

Every now and again you will have an audit. Inevitably this means you need to demonstrate to the Business Continuity guys what your Disaster Recovery (DR) plan is and prove whether it will work not an easy thing to do. With MentPro Capacity Planner's advanced modeling, you can conduct an Infrastructure walk through of a DR event. You can simulate a datacenter failure or a hardware failure, and demonstrate the impact.

Determine what can and cannot be recovered, then export all information to a report ideal for a Business Continuity audit.

Four weeks work now done in an hour!



The accuracy of our predictive analytics and modeling

We have been working with customers applying analytics to help them with IT infrastructure planning and transformation programs for years so we really know how this stuff works and the best techniques to apply. All that know-how and real world experience is distilled into MentPro Capacity Planner.

MentPro Capacity Planner's predictions and forecasts are all grounded in the granular data captured from your existing hardware estate. You can click right through to all the underlying data at any time. It knows how to deal with the complexities of volatile capacity metrics such as Memory and CPU, and apply hardware and hypervisor recommendations in terms of capacity constraints.

It applies statistics to deal with different workloads peaking at different times. It applies industry benchmarks to model different CPU architectures. This means statistically accurate insight that you can rely on to inform your plans and decisions about your future IT.

Full coverage and vendor independence

We are not trying to sell hardware nor do we have any restrictions on the technology we work with. It doesn't matter whether you use VMware, HyperV or RedHat, physical servers or the cloud—we can cover it all. This means you get a new level of comprehensive insight across your entire environment.

New insight in hours

Because we use data that already exists, from your server logs and tooling, and because MentPro Capacity Planner is available as a SaaS, we can have you up and running in a matter of hours. No big upfront investment or lengthy rollout required.

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Capacity Planning as a Service (CPaaS)

Baseline your estate and manage its capacity

Server performance scaling

Using Industry benchmarks, CPaaS' Baseline takes into account the relative performance of your different server architectures – letting you visualize the advantages of modern hardware.

Powerful single view

Your entire estate (datacenters, platforms, clusters, hosts and virtual machines) are presented in a clear hierarchy giving you instant visibility into how your current infrastructure – both physical and virtual – is distributed, how heavily it is loaded and where you are over and under provisioned.

Save multiple views

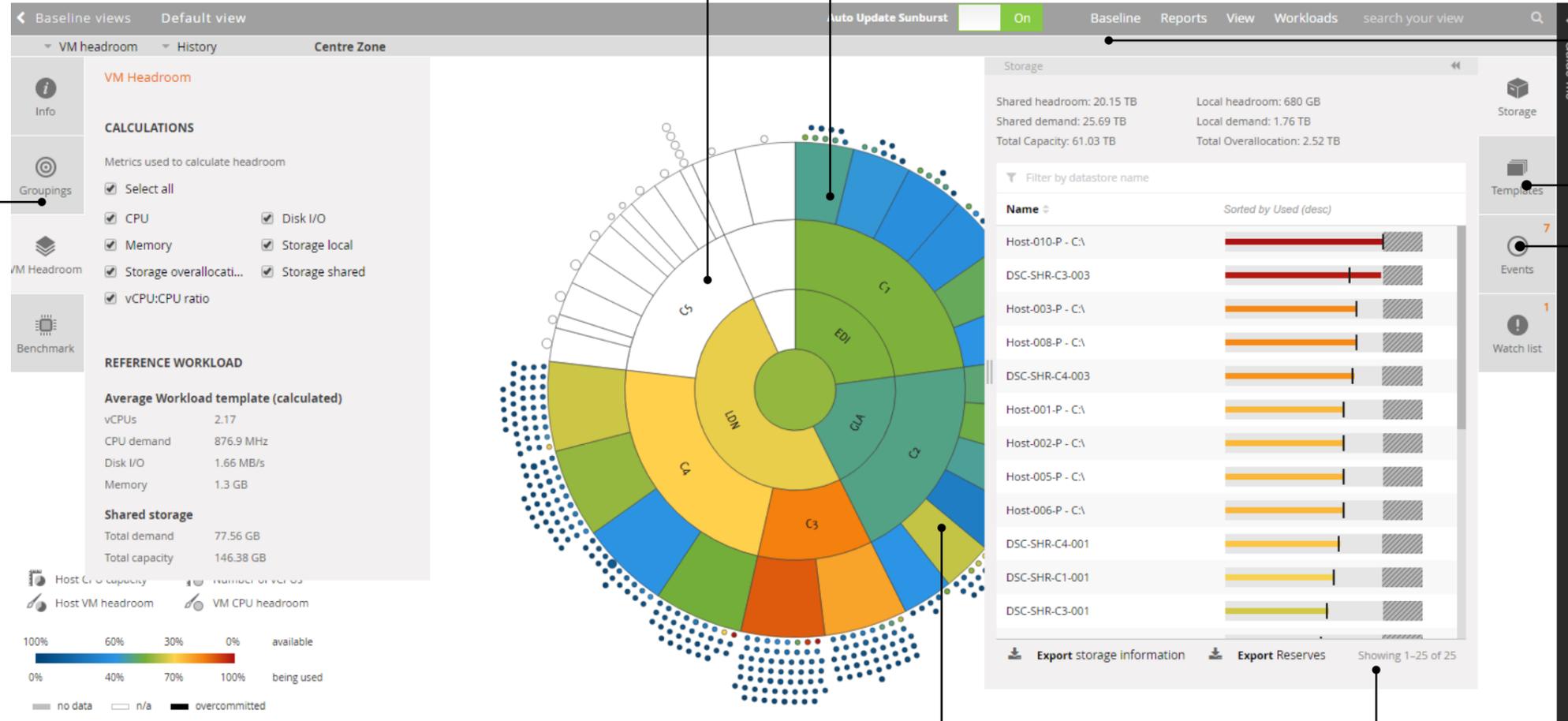
Once you have configured the specific Baseline views that give you the insight you're looking for, you can save them to use again for regular review and reporting.

Application and business level perspective

View your Baseline from a business perspective. For example by application, service or function.

Create your own profiles

You can configure your own capacity constraints to apply to the Baseline – both logical and physical – changing physical memory and CPU limits, vCPU to Host CPU ratios and more.



Create high impact reports

Generate high impact capacity reports covering your estate and publish them as PDF for easy sharing across your organisation.

Accurately visualize headroom

View headroom across a service, application or platform and identify the servers and datastores that will constrain your ability to grow.

Pre-empt capacity issues

See accurate predictions of when utilization will begin to constrain capacity for growth. Based on Capacity Planner's sophisticated machine learning and pattern matching technology.

Detailed drill through

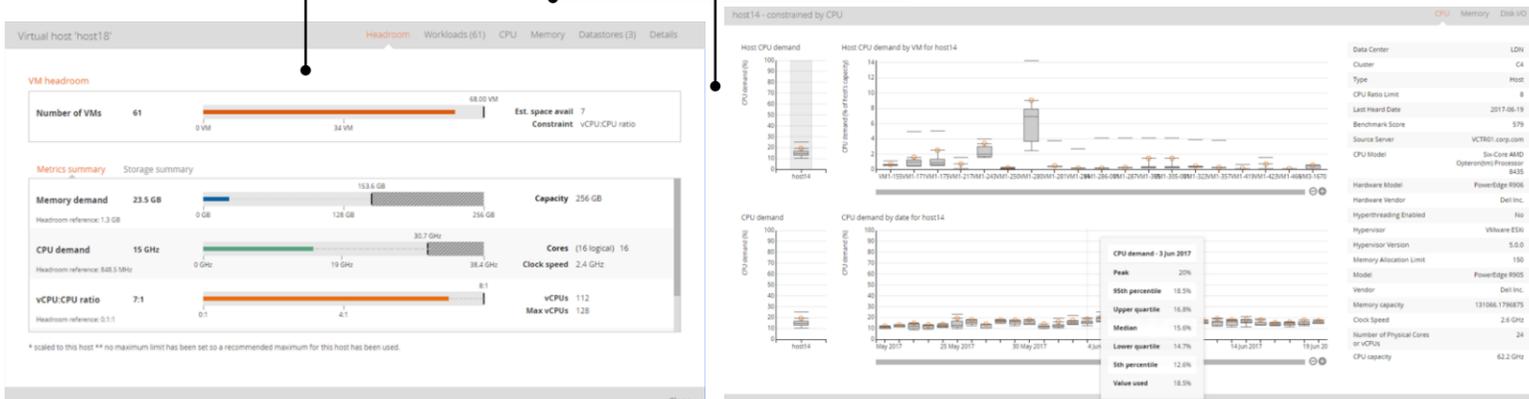
The easy to interpret color scale and detailed metric drill through mean you can see all the underlying detail you want at any time, so you're confident you have the complete picture.

Instant visibility

Each segment's size and colour lets you see the relative capacity and headroom of your different infrastructure components.

Sophisticated storage modeling

Easily see which datastores are used by each VM, and how each VM contributes to overall storage demand. Understand which datastores are close to capacity or over allocated.



Contact us NOW to learn more about CPaaS – info@mentpro.com



Mentpro.com

Capacity Planning as a Service (CPaaS)

Forward Thinking scenario modeling

Try out as many scenarios as you like

Whether you're planning to outsource, perform a datacenter migration, P2V, hardware refresh or make a hardware vendor selection – model a whole range of different 'what if' change scenarios, and run them as many times as you like to try out all the different permutations. Then compare and save them for future reference.

Automated overcommit reporting

If a destination cluster doesn't have the capacity to support the new workloads you're trying to allocate, CPaaS will indicate that cluster as 'Overcommit' and show you details of the amount of capacity that will need to be added across compute and storage in order for that cluster to support the new demand. You can then try modelling more changes to make space available – upgrading servers, adding storage capacity or introducing entirely new hardware.

Change tracking

Details of all your changes are automatically logged in CPaaS' Operations List. CPaaS will sort your changes into a logical running order for display in the Operations List ready for you to review, and if you decide there's a change that doesn't make sense you can simply delete it.

VM optimization

CPaaS can automatically rightsize your VMs to accommodate the workload from your old servers based on the relative performance of old and new hardware. VMs will automatically be configured based on the demand each places on its host, enabling you to maximize your consolidation ratios and cost savings.

Fully interactive and easy to use

Simply drag and drop to simulate migrations. The sunburst immediately changes to show you the new capacity and headroom for growth for each part of your estate.

Create plans and reports

Once you've finalized your plans you can generate a report capturing your plan and publish it as PDF for easy sharing across your organization. The report includes before and after visualizations of your estate and a detailed list of the change actions that you are planning to take.

Storage impact

Instantly see the storage impact of any proposed transformation, including P2V. Accurately determine your future storage requirements.

Model growth

Accurately model growth by adding reference VMs based on existing workload demand profiles, or upload your own standard workload configurations. Also, model the increase in application volumes using 'Demand Templates', correlating application volumes with infrastructure utilization. You can then determine when capacity constraints will prevent further growth.

Add new hardware

Make sure you invest in the right hardware to meet your growth requirements by comparing different hardware options with Host Templates, based on industry benchmark data.

Plan out a timeline for action

Once you've tried out your ideas for change, you might want to start planning them over a timeline. CPaaS' intuitive Timeline feature lets you plan out which changes you'll make when, and see the impact of changing the running order so you can refine your plans ready for action.

