



**Hewlett Packard  
Enterprise**



Intel Inside®.  
Leistungsstarke Produktivität Outside.

# HPE Edgeline EL4000 Intelligent Edge Workspace

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**BECHTLE STEFFEN**

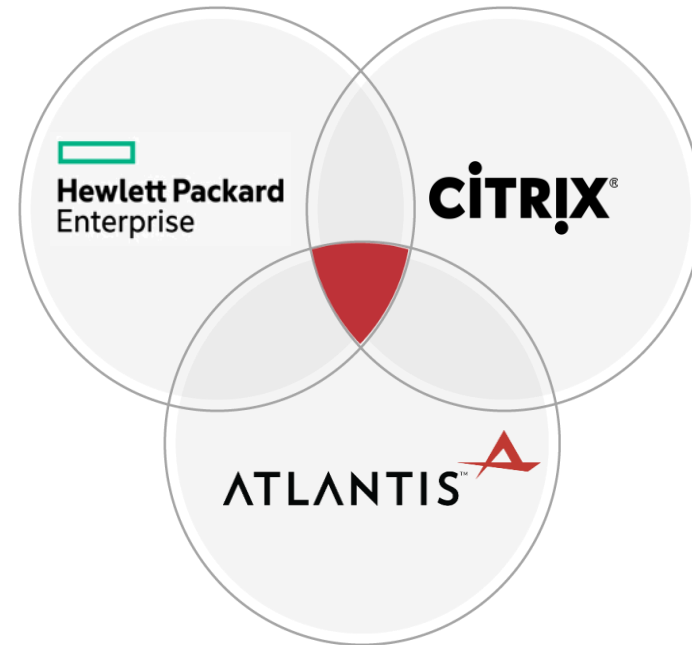
# Introducing the HPE Edgeline EL4000 Intelligent Edge Workspace

The first purpose-built virtual workspace appliance

Avail  
Jun  
'17

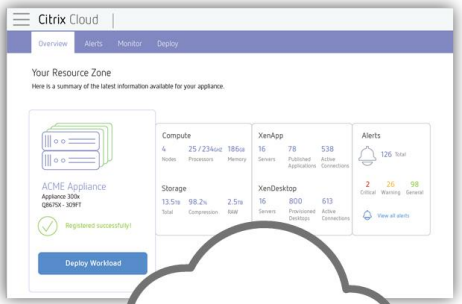


- Co-Developed by HPE, Atlantis, Citrix
- Available via Distribution
- Single SKU
- Shipped and bundled as a 'turnkey', integrated appliance
- Available June 2017





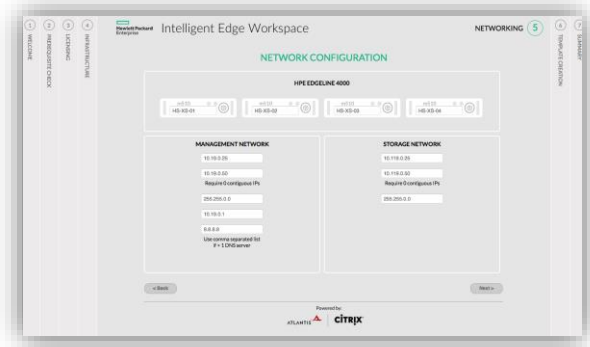
Only From Atlantis, Citrix and HPE Edgeline



Citrix Cloud and Go



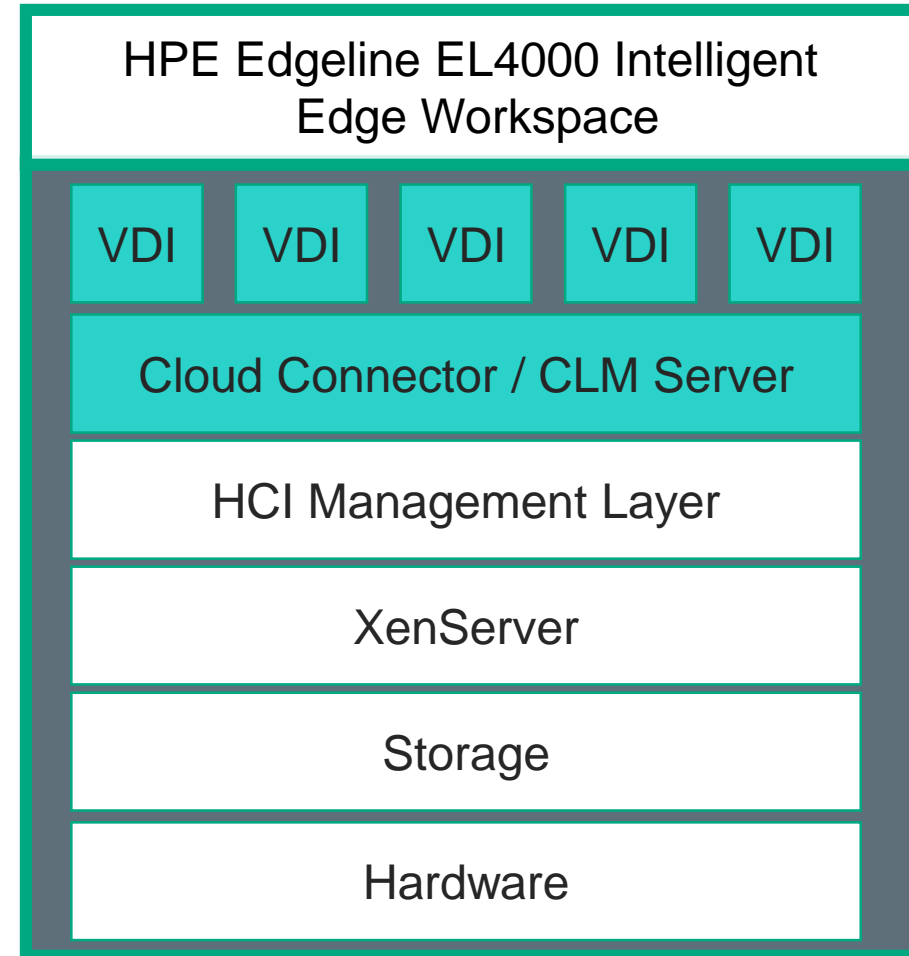
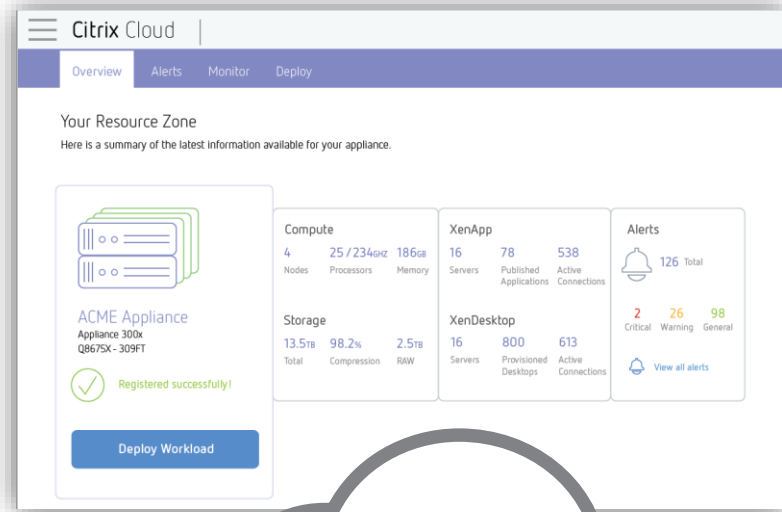
HPE Edgeline EL4000



Atlantis USX

# Connecting HCI to Citrix Cloud Management

Cloud-based management, local resources – less to deploy, simpler, faster



# Intelligent Edge Workspace Appliance

## Benefits



**Implement a Citrix Workspace Solution in hours, not weeks**

*factory install and one click deploy leveraging Citrix Cloud*



**Best in class performance & zero touch install**

*fastest desktop experience in the market and cloud installation*



**Designed for the Edge**

*wall or rack mount, ruggedized, dense form factor.*



**Low cost per desktop; CAPEX/OPEX pricing models**

*\*XenApp \$222/seat  
\* XenDesktop \$475/seat*

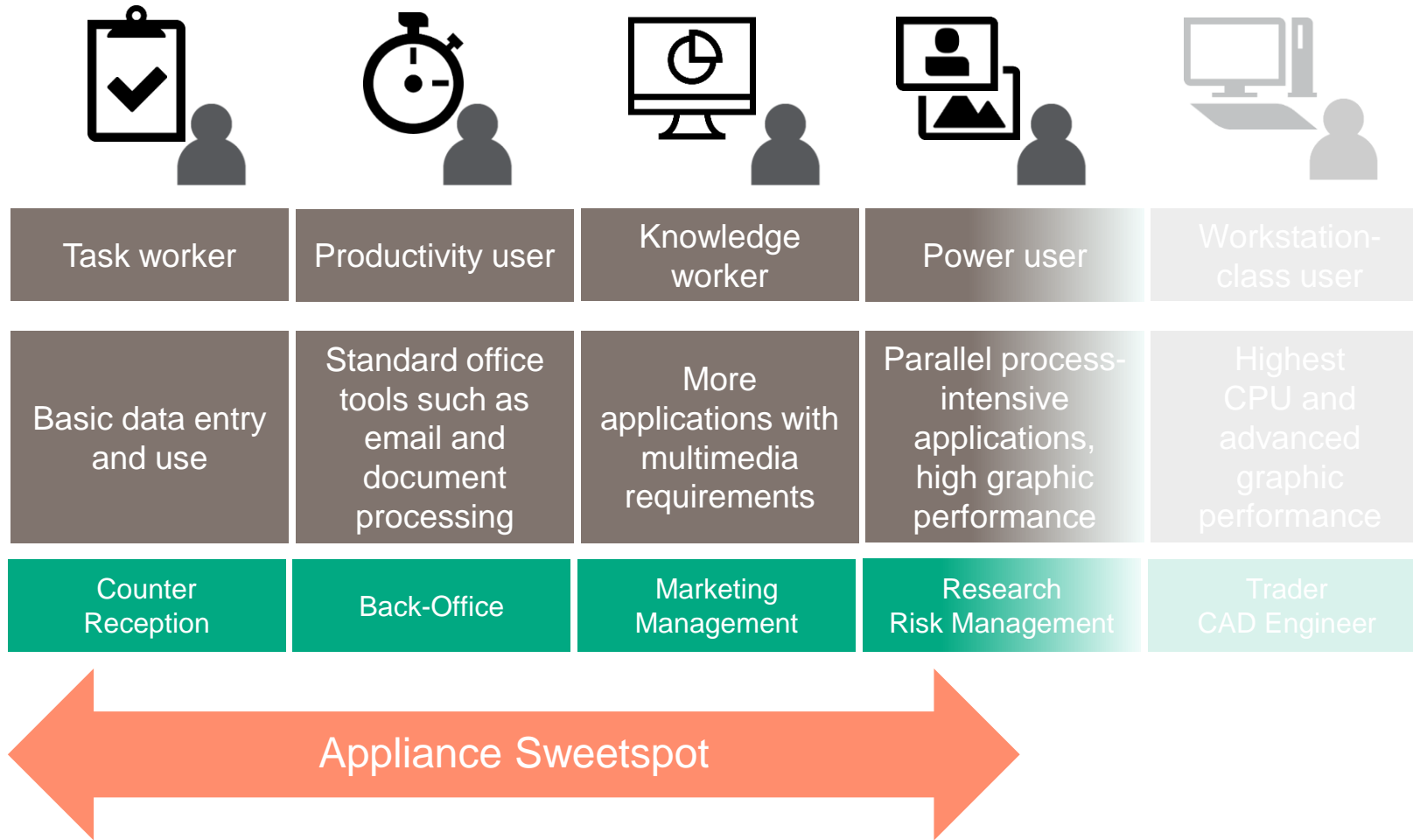


**Eliminate vendor risk**

*Citrix, HPE and Atlantis power the worlds largest Workspace deployments*

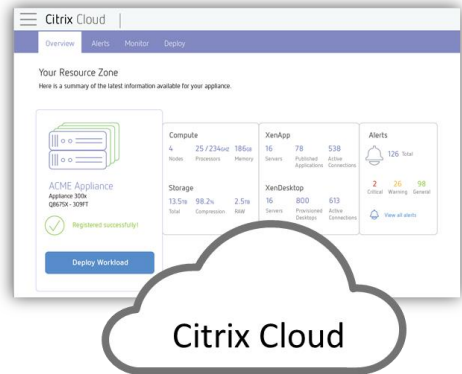
# HPE Edgeline EL4000 Intelligent Edge Workspace

Optimised for task - knowledge workers



# What's in it....

## Best in Class Technology



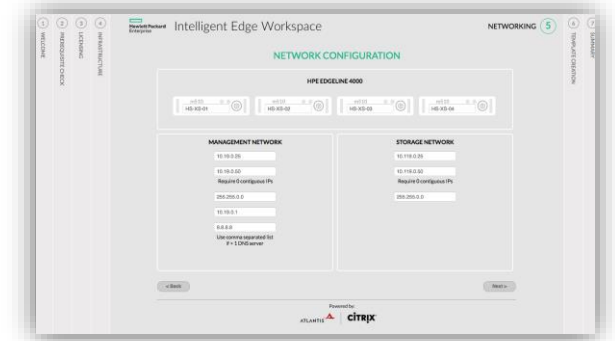
### Citrix Cloud and Go

- XenApp & XenDesktop Service
- XenMobile Premium Service
- ShareFile Service
- Smart Tools
- NetScaler Gateway Service



### HPE Edgeline EL4000

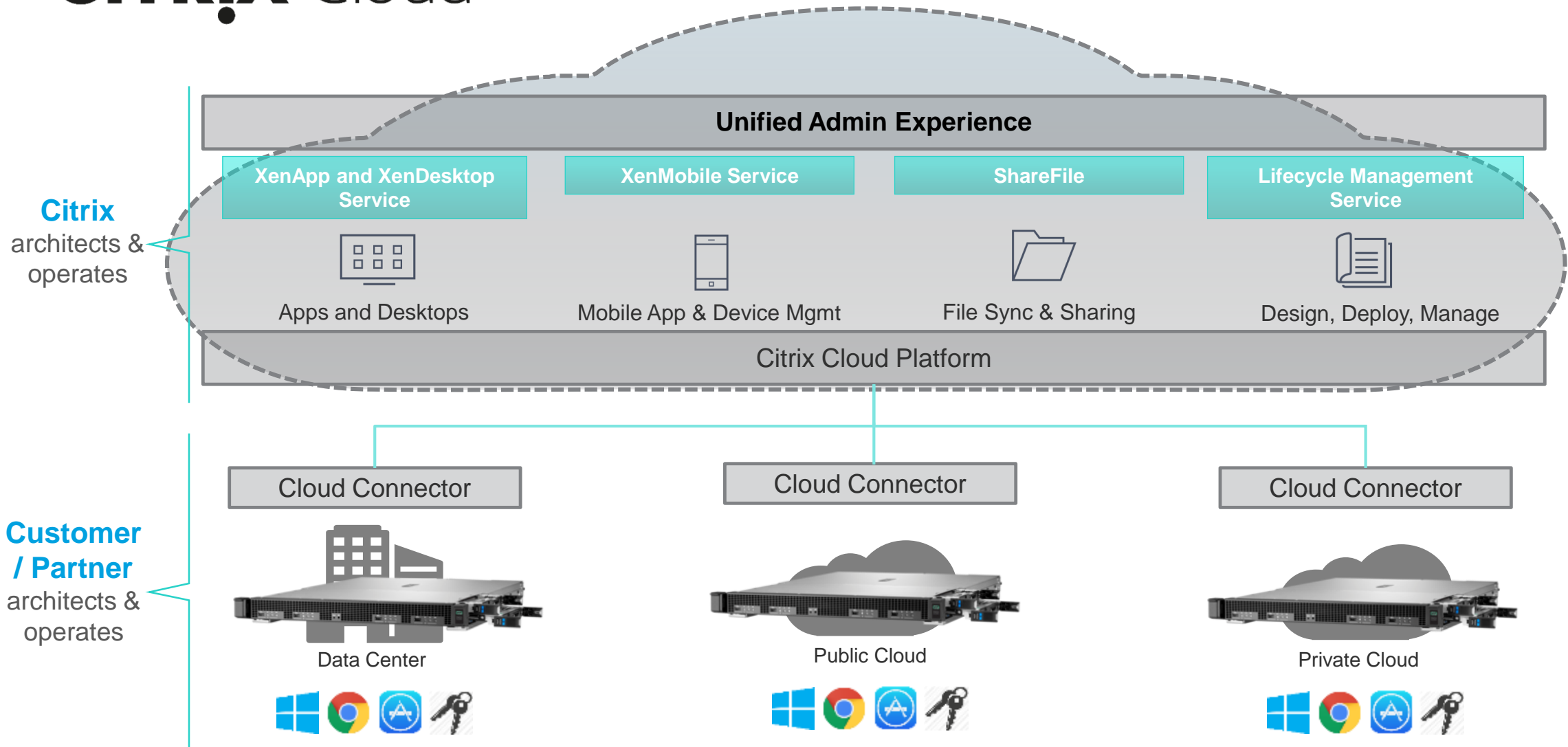
- EL4000
  - Integrated Power/Cooling/Comms
- 4x M510 Moonshot Cartridges
  - Intel Xeon D “Broadwell-DE” 1.7GHz – 16 cores
  - 128GB RAM
  - Equipped with NVMe
  - 4TB Effective Storage Capacity
  - HPE iLO Advanced
- 3yr, 24x7 Support (HW & SW)



### Atlantis USX

- In memory storage optimisation
  - 3x-12x faster disk performance than PCs with SSD
  - Up to 92% faster launch time for large app vs. traditional VDI
  - Up to 92% faster login time vs. traditional VDI
- Data services
  - Dedupe, Replication and Snapshotting
- Automation

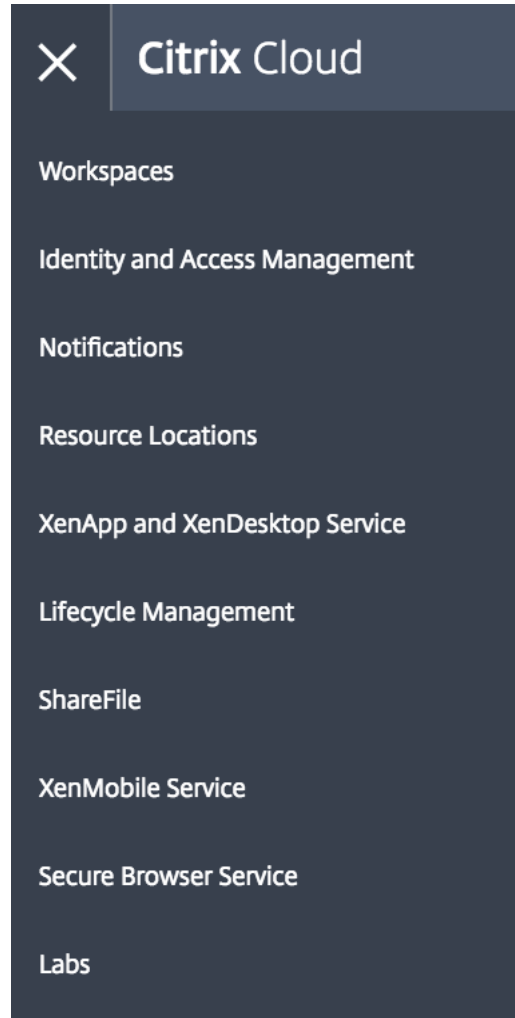
# CITRIX® Cloud™





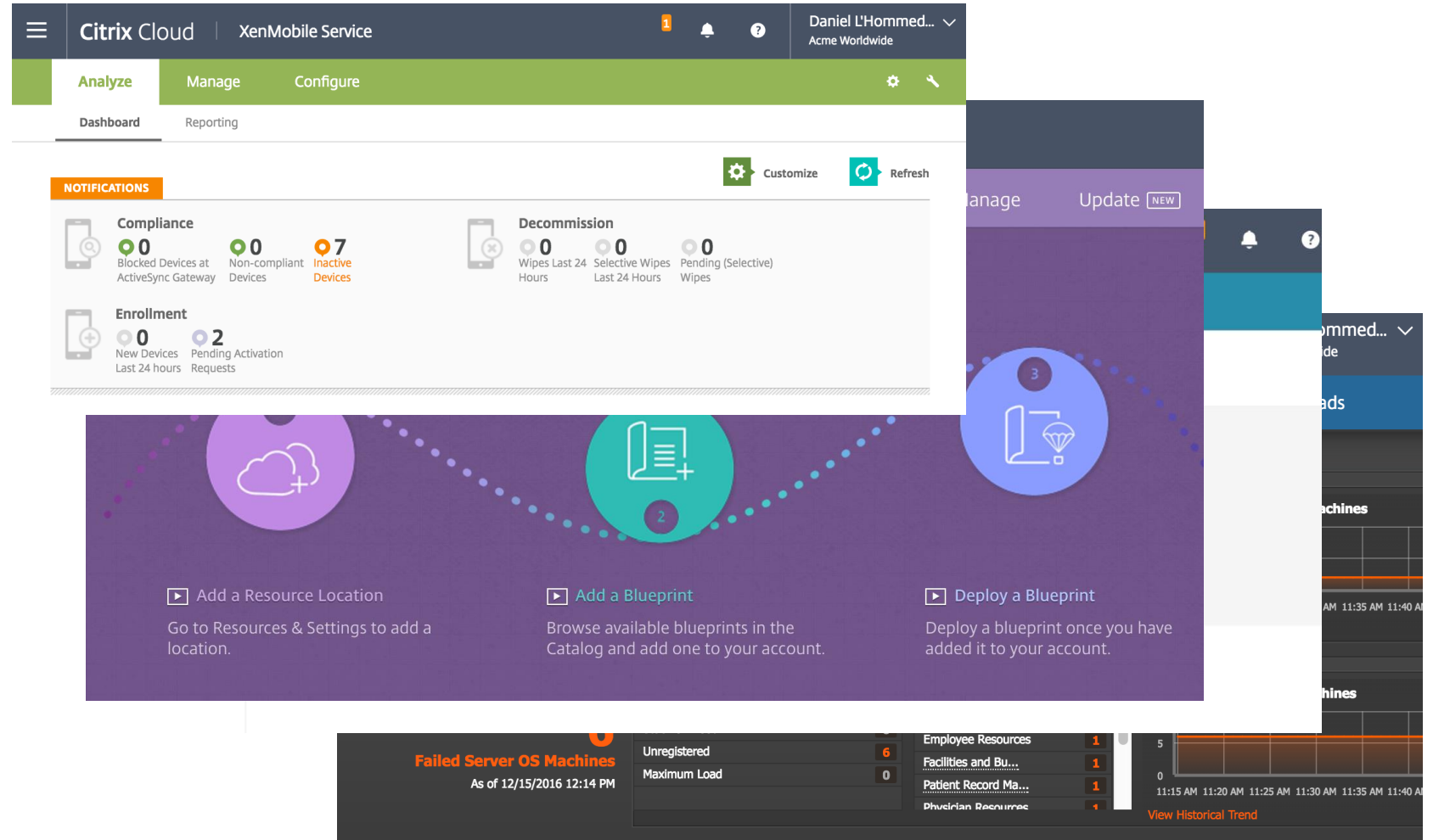
# Unified Admin Experience

– Single Sign on across all services in the control plane



**Citrix Cloud**

- Workspaces
- Identity and Access Management
- Notifications
- Resource Locations
- XenApp and XenDesktop Service
- Lifecycle Management
- ShareFile
- XenMobile Service
- Secure Browser Service
- Labs



**Citrix Cloud | XenMobile Service**

Dashboard | Reporting

NOTIFICATIONS

**Compliance**

- Blocked Devices at ActiveSync Gateway: 0
- Non-compliant Devices: 0
- Inactive Devices: 7

**Decommission**

- Wipes Last 24 Hours: 0
- Selective Wipes Last 24 Hours: 0
- Pending (Selective) Wipes: 0

**Enrollment**

- New Devices Last 24 hours: 0
- Pending Activation Requests: 2

**Actions:**

- Add a Resource Location: Go to Resources & Settings to add a location.
- Add a Blueprint: Browse available blueprints in the Catalog and add one to your account.
- Deploy a Blueprint: Deploy a blueprint once you have added it to your account.

**Failed Server OS Machines**  
As of 12/15/2016 12:14 PM

Unregistered	6
Maximum Load	0

**Employee Resources**: 1  
**Facilities and Bu...**: 1  
**Patient Record Ma...**: 1  
**Physician Resources**: 1

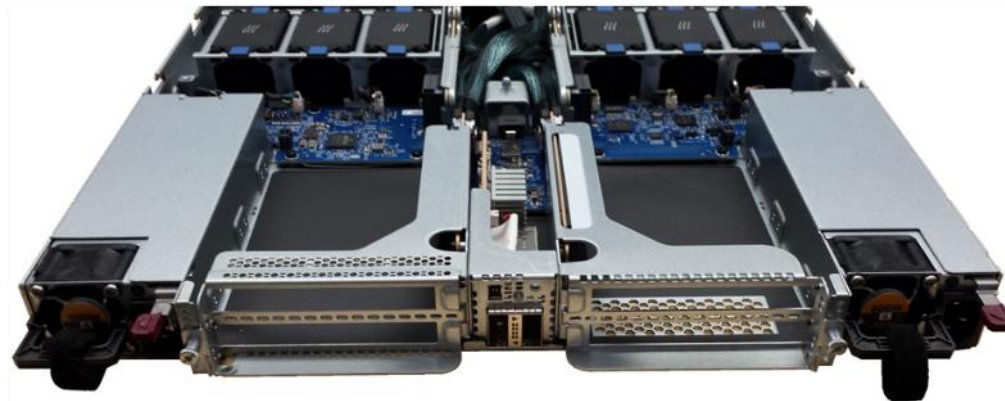
View Historical Trend

# HPE Edgeline EL4000

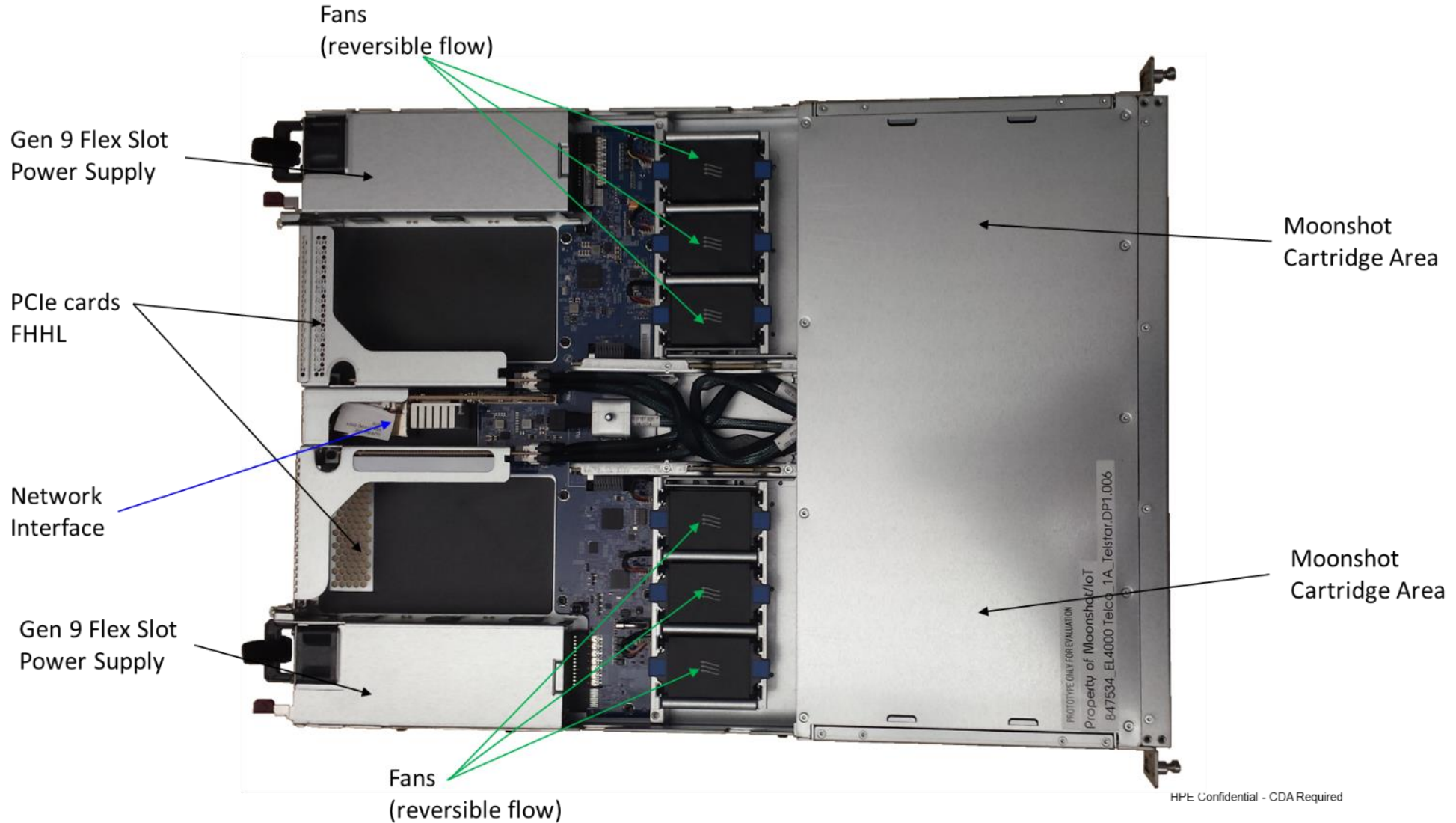
Cartridges are serviced from the sides



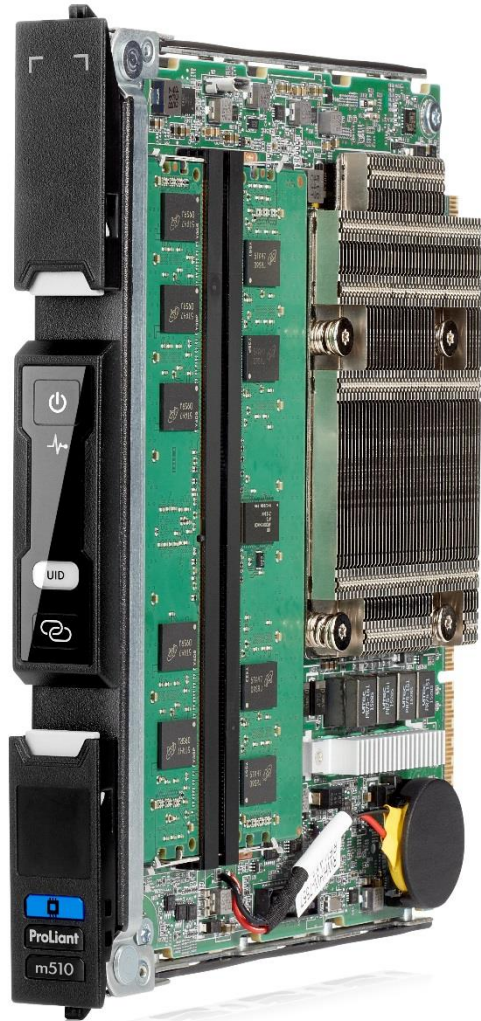
PCIe bays and network connections



# HPE Edgeline EL4000



# M510



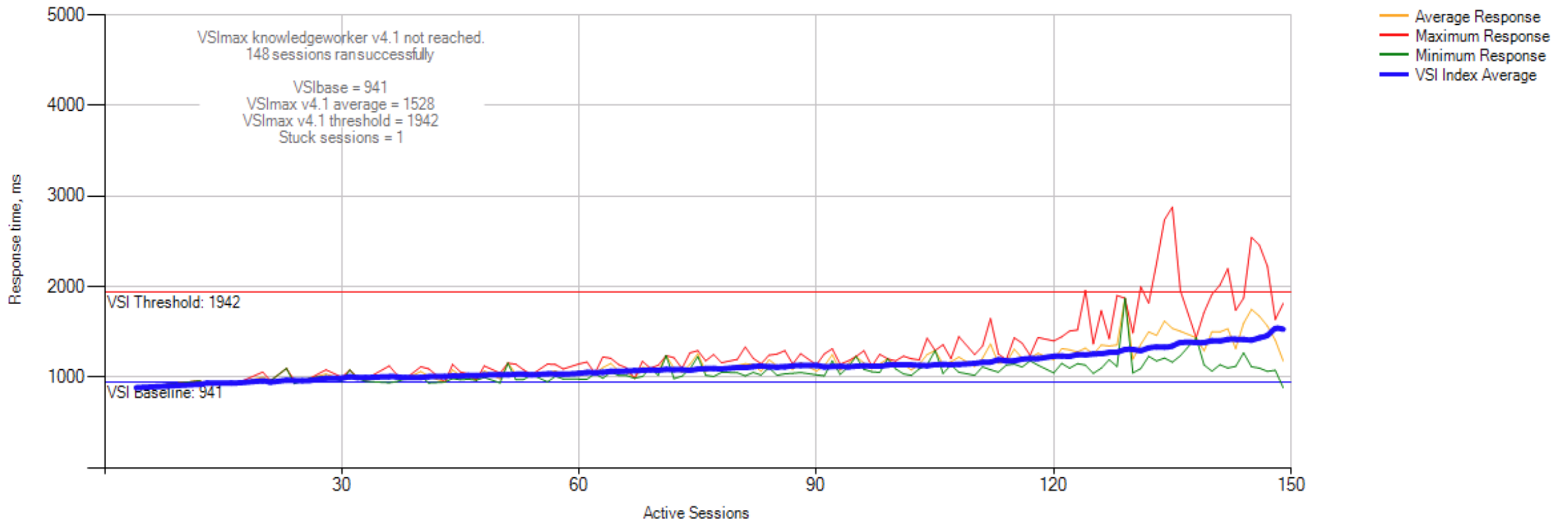
## HPE ProLiant m510

<b>Workload</b>	General Compute Workhorse, Big Data, Media Processing and more!
<b>SoC</b>	Intel® Xeon® D “Broadwell-DE” - D-1548: 8 core, 2.0 GHz base/2.3 GHz all-core turbo & - D-1587 <sup>1</sup> : 16 core, 1.7 GHz base/2.1 GHz all-core turbo
<b>Graphics</b>	iLO4 Remote Console. No integrated GPU.
<b>Memory</b>	(4) DDR4 ECC RDIMMs (2133/2400 MHz) (8 GB, 16 GB, 32 GB) Maximum Configuration 128 GB (4x32 GB). Dual channel.
<b>Network Controller</b>	Mellanox ConnectX-3 PRO, Dual-port 10GbE NIC with RoCE
<b>Onboard Storage</b>	Three (3) M.2 Modules, ~2TB NVMe capacity (1) – x1 SATA-3 M.2 (2242) – 64 GB, 120 GB (future: 240 GB) (2) – x4 Gen3 NVMe M.2 (2280 or 22110): 1 TB each.
<b>Management</b>	HPE iLO 4 (Remote Console with vKVM and vMedia) HPE Trusted Platform Module (TPM) embedded
<b>Power</b>	Cartridge Max: TBD, Typical: 90W - (8C, Includes system overhead)
<b>OS</b>	Windows Server 2012/2012 R2/2016 RHEL/CentOS 6.7/ 7.2, Ubuntu 15.04/14.04.3 LTS SLES 12 (factory only), VMware ESXi 6.0

<sup>1</sup> High wattage (65W) SoC. Maximum allowable servers in a chassis may be reduced due to thermal reasons.

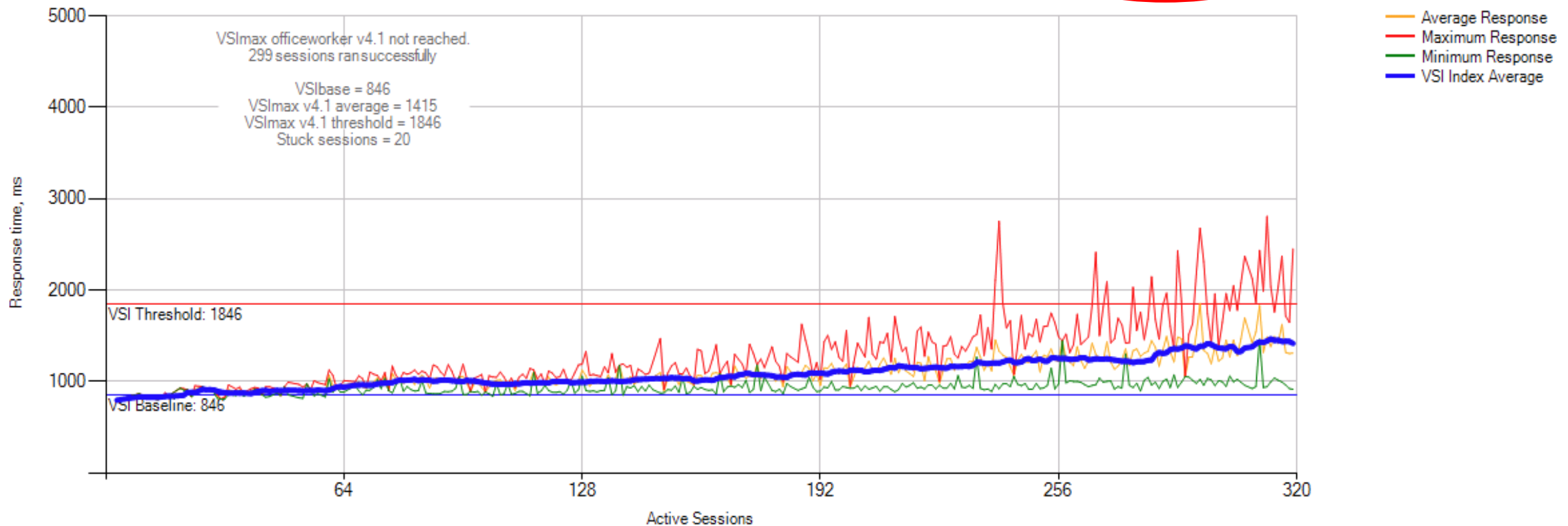
# Benchmark Testing: XenDesktop VDI

Form Factor	VSI base	XenDesktop VMS
1U	831 - Excellent	150



# Benchmark Testing: XenApp Published Desktop

Form Factor	VSI base	XenApp Sessions
1U	846 - Excellent	320



# HPE Edgeline EL4000

## EL4000

Compute	Up to (4) Intel based m510 [4x16c] or m710x [4c+GPU] high density servers
Dimensions	1U , 23" Deep, 17" wide, reversible rack mount with slide rails
I/O	One x8 PCI-E slot per server (four total) - Or - Four assignable x8 PXI-E slots
Network	2 port 10GbE pass through per cartridge (dual, combined QSFP) - Or – Aggregated 2 port 10GbE SFP+ uplinks (Layer 2 switch)
Storage	Onboard server cartridge storage up to 4x 4TB total External storage via PCI-E or iSCSI
Cooling	N+1 redundant fans
Environmental	Extended operating temp 0-55 deg C 95% non-condensing Humidity
Power Input	95-265 VAC or -48 VDC input, 1+1 redundant power, high efficiency
Management	HPE iLO4 enterprise-class aggregated to single management RJ45




- Unprecedented Edge Compute
- Datacenter-Class Security and Management
- Engineered to fit into Harsh Edge Environments

# HPE Edgeline EL4000 Intelligent Edge Workspace

## Simple Setup

**Hewlett Packard Enterprise** Intelligent Edge Workspace WELCOME **1**

**CONFIGURATION SETUP**



This setup wizard will guide you through the steps to configure and deploy the HPE Edgeline EL4000 Intelligent Edge Workspace Appliance providing users with access to Citrix XenDesktop or XenApp sessions

- Set XenServer names and networks
- Configure Atlantis USX storage
- Create VM Templates from ISO
- Deploy Citrix Smart Tools Blueprint for XenDesktop or XenApp

[Next >](#)

Powered by:

**ATLANTIS** | **CITRIX**

**2** PREREQUISITE CHECK  
**3** LICENSING  
**4** INFRASTRUCTURE  
**5** NETWORKING  
**6** TEMPLATE CREATION  
**7** SUMMARY



## WELCOME



This setup wizard will guide you through the steps to configure and deploy the HPE Edgeline EL4000 Intelligent Edge Workspace Appliance providing users with access to Citrix XenDesktop or XenApp sessions

- Set XenServer names and networks
  - Configure Atlantis USX storage
  - Create VM Templates from ISO
  - Deploy Citrix Smart Tools Blueprint for XenDesktop or XenApp
- 
- Add to existing appliance ⓘ
  - Create VM templates ⓘ
  - Deploy XenDesktop Cloud ⓘ

Start

DEPLOYMENTS

# XA\_Deploy\_HPE\_ATL\_CTX\_v3

- Deployment Details
- Alerts
- Monitoring
- Operations
- Scale & Redundancy
- Failover
- Failback
- Tear Down

Running... 0%



Cancel Pause

Show blueprint sub-step numbers

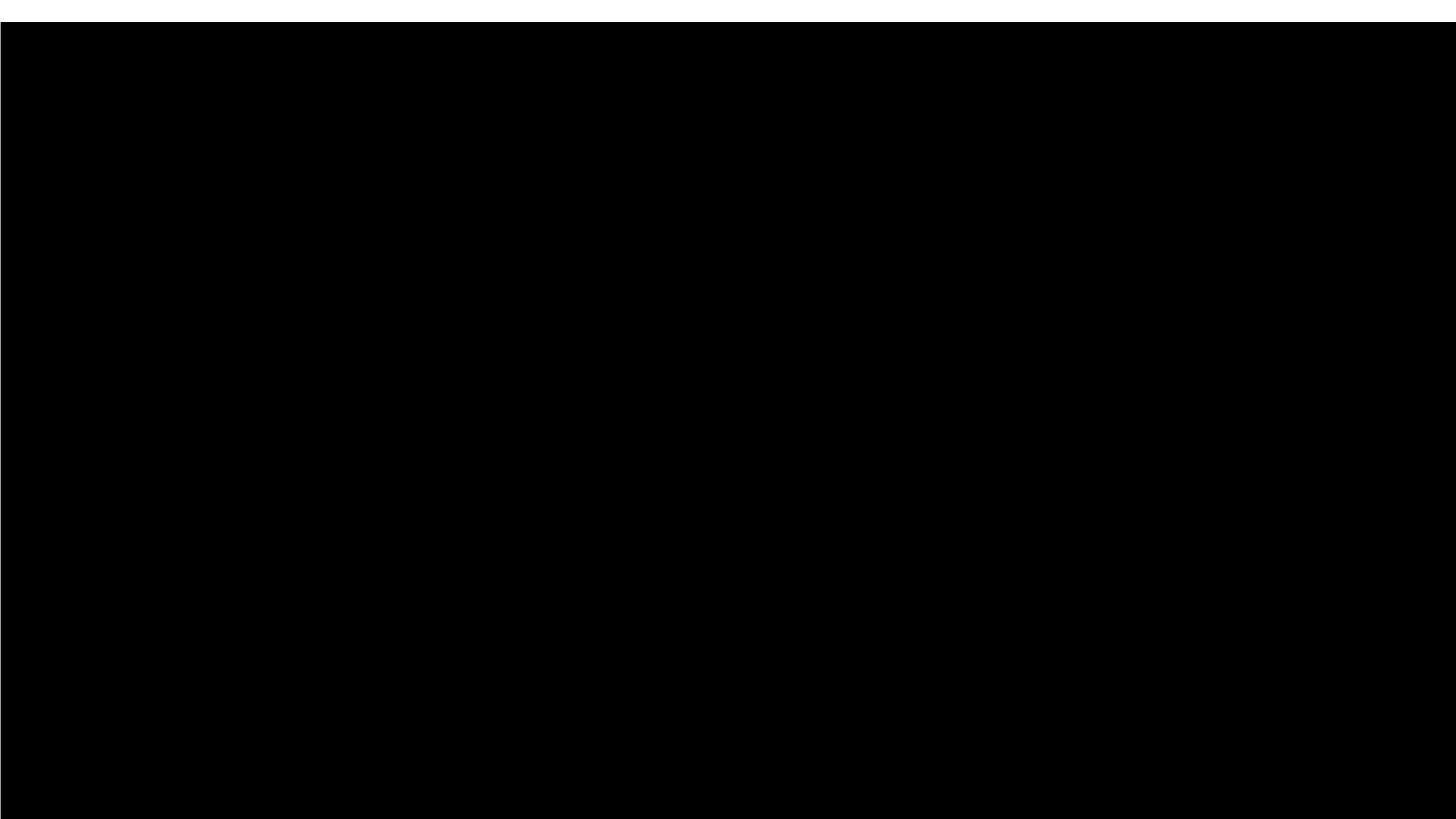
- 1 **Cloud Connector** 🕒
- 2 **Existing Domain Details**
  - Copy Domain Details (VTL Expression) 🕒
- 3 **Create Cloud Connector**
  - Create Domain Member
  - RenameComputer 🕒
  - Reboot Step 🕒
  - SetDnsServer 🕒
  - JoinDomain 🕒
  - Reboot Step 🕒
  - RegisterDns 🕒
  - Get Download Url 🕒
  - Download CWC Connector 🕒
  - Install CWC Connector 🕒
  - Reboot Step 🕒
- 4 **If Storefront selected** 🕒

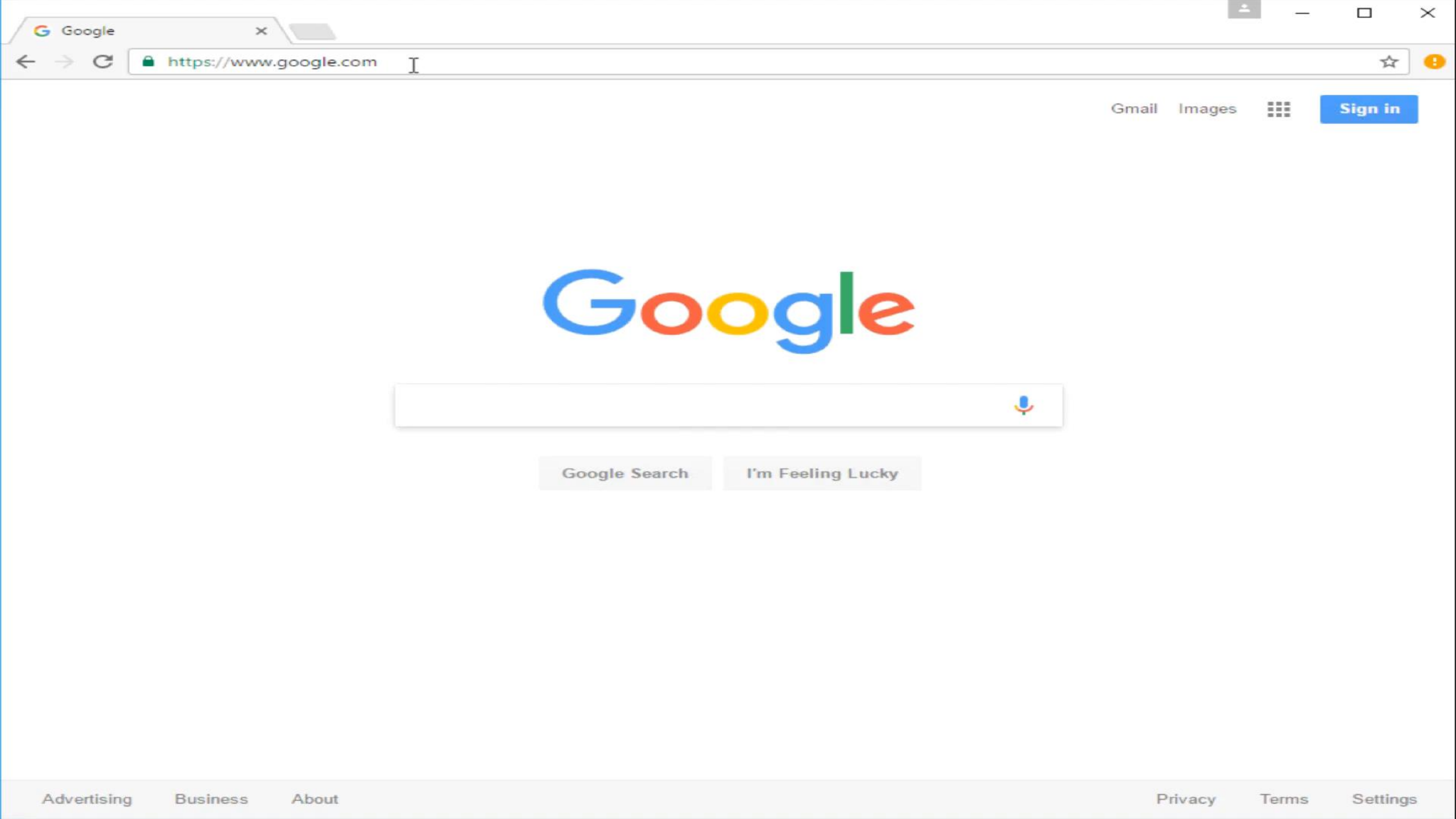
## Cloud Connector

Started processing task: Cloud Connector at: Jan 07, 2017 08:30PM

Step Details		Step Output	
Machine		Result	
⌚	Launching	Waiting for instance to be ready..	
⌚	Launching		







Google



Google Search

I'm Feeling Lucky

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# Global support

## Citrix Workspace Support Made Easy

- Single contact point for HW/SW
  - Atlantis
  - HPE
  - CITRIX
- 3 Year, 24x7 Support Included with Appliance
  - Hardware & Software

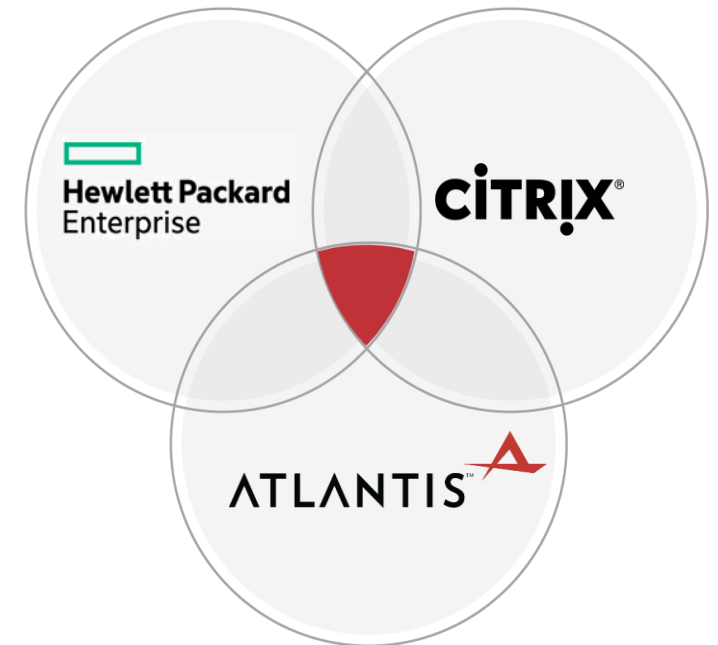


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# Summary

## Why choose this appliance?

- Low Risk Workspace Solution
  - Leverages proven success with established brands - HPE / Atlantis / Citrix
- Simplicity throughout the lifecycle
  - Procure – Fixed SKU
    - CAPEX/OPEX pricing models available
  - Install
    - HPE Factory Installation removes risk
    - One touch infrastructure from Citrix Cloud
  - Support
    - 24x7 Single Point of Contact
- Best in class performance
  - Fastest Desktop Experience in the market via In memory optimisation
  - Linear Scalability Reference Architecture



# Thank You!

