

## HPE Competitive News Summary – September 6, 2019

Cisco

Dell EMC

IBM

Lenovo,  
Huawei

Pure,NetApp,  
Nutanix

Other

Seismic

Prev. editions

**Important note:** The HPE Competitive Weekly has migrated to the Seismic NewsCenter on the “Competitive Intelligence” Channel as the primary delivery mechanism. Visit [hpe.seismic.com](http://hpe.seismic.com) to read the “HPE Competitive Weekly” news summary in the Seismic NewsCenter, Competitive Intelligence Channel.

### Cisco

- **Cisco Patches Critical Bug in REST API Container**
  - <https://www.sdxcentral.com/articles/news/cisco-patches-critical-bug-in-rest-api-container/2019/08/>
  - Cisco REST API Container Vulnerability: Here's What You Need to Know  
<https://www.msspalert.com/cybersecurity-breaches-and-attacks/cisco-rest-api-container-vulnerability/>
- **Cisco introduces renewals automation for partners**
  - <https://www.crn.com.au/news/cisco-introduces-renewals-automation-for-partners-530506>
  - Power of alliances is key to Cisco's success  
<https://www.crn.in/features/power-of-alliances-is-key-to-ciscos-success/>
- **Q&A: HPE's networking chief opens up about intelligent edge, Cisco and micro data centers**
  - <https://www.itworld.com/article/3435206/qa-hpes-networking-chief-opens-up-about-intelligent-edge-cisco-and-micro-data-centers.html>
- **Cisco Sets Itself Up for Success**
  - <https://finance.yahoo.com/news/cisco-sets-itself-success-180800430.html>
- **Multiple networking options: Cisco brings cloud innovation on-premises**
  - <https://siliconangle.com/2019/09/05/multiple-networking-options-cisco-brings-cloud-innovation-on-premises-cubeconversations/>
- **Cisco's Acacia deal a key component of its core networking strategy**
  - <https://www.fiercetelecom.com/telecom/cisco-s-acacia-deal-a-key-component-its-core-networking-strategy>
- **DevOps Chat: DevOps and the Programmable Network with Cisco DevNet**
  - <https://devops.com/devops-chat-devops-and-the-programmable-network-with-cisco-devnet/>
- **Former Cisco CEO Says AI Will Have Bigger Impact Than The Internet**
  - <https://www.forbes.com/sites/richkarlgaard/2019/09/04/former-cisco-ceo-says-ai-will-have-bigger-impact-than-the-internet/#5cd33b0bf0e9>
- **Cisco releases guides for incident responders handling hacked Cisco gear**
  - <https://www.zdnet.com/article/cisco-releases-guides-for-incident-responders-handling-hacked-cisco-gear/>
- **If Cisco breaks this level, it'll be on a fast track to the December lows, analyst warns**
  - <https://www.cnbc.com/2019/09/03/cisco-could-be-on-a-fast-track-to-december-lows-analyst-warns.html>

[Back to Top](#)

### Dell EMC / VMware / Pivotal

- **HPE takes server market share from Dell**
  - <https://www.crn.com.au/news/hpe-takes-server-market-share-from-dell-530650>
  - HPE Gains Server Market Share In Heated Battle With Dell  
<https://www.crn.com/slide-shows/storage/hpe-gains-server-market-share-in-heated-battle-with-dell>
  - Dell lost server market share to HPE in second quarter  
<https://www.telecomlead.com/telecom-equipment/dell-lost-server-market-share-to-hpe-in-second-quarter-92068>
  - Dell and HPE tied as server market stumbles  
<https://www.arnnet.com.au/article/666050/dell-hpe-tied-server-market-stumbles/>
  - Worldwide Server Market Revenue Declined 11.6% Year Over Year in the Second Quarter of 2019, According to IDC

<https://www.idc.com/getdoc.jsp?containerId=prUS45482519>

- **Storage revenue share: HPE Gained, Dell, NetApp and IBM lost**
  - <https://www.telecomlead.com/telecom-equipment/storage-revenue-share-dell-netapp-and-ibm-lost-92107>
  - Storage suppliers Dell, HPE, NetApp and IBM in second quarter  
<https://infotechlead.com/networking/storage-suppliers-dell-hpe-netapp-and-ibm-in-second-quarter-59576>
  - IDC muddies Storage Tracker waters  
*"Looking at the vendor numbers we see HPE did very well..."*  
<https://blocksandfiles.com/2019/09/06/idc-muddies-storage-tracker-waters/>
  - Worldwide Enterprise External OEM Storage Systems Market Revenue Declined 0.8% During the Second Quarter of 2019, According to IDC  
<https://finance.yahoo.com/news/worldwide-enterprise-external-oem-storage-000000198.html>
- **Dell announces software designed networking advancements**
  - <http://www.digitaljournal.com/tech-and-science/technology/dell-announces-software-designed-networking-advancements/article/557113>
  - Dell EMC Unveils New SD-WAN Offerings  
<https://virtualizationreview.com/articles/2019/09/03/dell-emc-sdwan.aspx>
  - Dell Technologies Introduces New Enhancements in Software-defined Networking to Lower the Cost of Networking  
<https://it.toolbox.com/blogs/shrutiumathe/dell-technologies-introduces-new-enhancements-in-software-defined-networking-to-lower-the-cost-of-networking-090319>
- **Dell Appoints New Chief Digital Officer To Become 'Like A Software Organization'**
  - <https://www.crn.com/dell-appoints-new-chief-digital-officer-to-become-like-a-software-organization->
- **Dell EMC: Expect big changes as software eats networking**
  - <https://siliconangle.com/2019/09/04/dell-emc-expect-big-changes-as-software-eats-networking-vmworld/>
- **Dell Technologies Dives Deeper Into Managed Services With 'ProManage For End Users'**
  - <https://www.forbes.com/sites/patrickmoorhead/2019/09/04/dell-technologies-dives-deeper-into-managed-services-with-promanage-for-end-users/#428512ef5a66>
- **Dell EMC Federal's Steve Harris on Multicloud Approach, Cloud Smart Strategy**
  - <https://www.govconwire.com/2019/09/dell-emc-federals-steve-harris-on-multicloud-approach-cloud-smart-strategy/>
- **Dell EMC Q&A: Orgs adopting 'public cloud in droves' seek hybrid solutions**
  - <https://siliconangle.com/2019/09/05/qa-orgs-adopting-public-cloud-droves-seek-hybrid-cloud-solution-vmworld/>
- **Dell credits VMware for beating analyst expectations**
  - <https://www.crn.com.au/news/dell-credits-vmware-for-beating-analyst-expectations-530425>
- **Q&A: As the enterprise embraces GPUs, VDI, Nvidia and Dell respond**
  - <https://siliconangle.com/2019/09/05/qa-enterprise-embraces-gpus-vdi-nvidia-dell-respond-vmworld/>
- **3 Numbers From Dell's Latest Earnings That Should Excite Investors**
  - <https://finance.yahoo.com/news/3-numbers-dell-apos-latest-233923913.html>
- **Which partner has become the first to deploy Dell EMC's elastic cloud storage in the UK?**
  - <https://www.channelweb.co.uk/crn-uk/news/3081177/which-partner-has-become-the-first-to-deploy-dell-emcs-elastic-cloud-storage-in-the-uk>
- **Introducing Project Magna – Artificial Intelligence and Machine Learning for vSphere self-driving operations**
  - <https://cormachogan.com/2019/09/02/introducing-project-magna-artificial-intelligence-and-machine-learning-for-vmware/>
  - VirtualWisdom gets closer to self-driving app vision  
<https://blocksandfiles.com/2019/09/04/virtualwisdom-gets-closer-to-self-driving-app-vision/>
  - VMware's Project Magna applies machine learning to automate the data centre  
<https://blocksandfiles.com/2019/09/02/vmware-project-magna/>
  - Tech Preview Announcement: Project Magna for vSAN Continuous Optimization  
<https://blogs.vmware.com/management/2019/08/tech-preview-project-magna.html>
- **VMware Returns To Its Roots At VMworld 2019**
  - <https://www.forbes.com/sites/justinwarren/2019/09/03/vmware-returns-to-its-roots-at-vmworld-2019/#72b5dfd5798e>
  - What We Took Away from VMworld 2019  
<https://www.eweek.com/cloud/what-we-took-away-from-vmworld-2019>

- For VMware, It's All About the Edge  
<https://www.lightreading.com/the-edge/for-vmware-its-all-about-the-edge/d/d-id/753805>
- **VMware Drops \$2.1B on Carbon Black. Now What?**
  - <https://www.sdxcentral.com/articles/news/vmware-drops-2-1b-on-carbon-black-now-what/2019/09/>
  - Through Pivotal and Carbon Black, VMware enters new territory  
<https://sg.channelasia.tech/article/666014/through-pivotal-carbon-black-vmware-enters-new-territory/>
- **Veeam joins in on VMware's Kubernetes play**
  - <https://siliconangle.com/2019/09/04/veeam-joins-in-on-vmwares-kubernetes-play-vmworld/>
  - How VMware Leveraged Kubernetes For Its Cloud-Native And Multi-Cloud Strategy  
<https://www.forbes.com/sites/janakirammsv/2019/09/03/how-vmware-leveraged-kubernetes-for-its-cloud-native-and-multi-cloud-strategy/>
  - Is Kubernetes eating VMware's lunch?  
<https://www.verdict.co.uk/cloud-technology/>
  - VMware's Positioned for Success in Crowded Container Market  
<https://www.itprotoday.com/containers/vmwares-positioned-success-crowded-container-market>
  - 10 Important Acquisitions Fueling VMware's Multi-Cloud, Container Comeback  
<https://www.crn.com/slide-shows/virtualization/10-important-acquisitions-fueling-vmware-s-multi-cloud-container-comeback>
  - From compute to Kubernetes, VMware brings virtualization into the multicloud future  
<https://siliconangle.com/2019/09/03/from-compute-to-kubernetes-vmware-brings-virtualization-into-the-multicloud-future-vmworld-womenintech/>
- **How Liquid Solves Hardware Issues for VMware HCI Deployments**
  - <https://www.eweek.com/enterprise-apps/how-liquid-solves-hardware-issues-for-vmware-hci-deployments>
  - VMware Entering the IT Infrastructure Composability Game  
<https://gigaom.com/2019/09/05/vmware-entering-the-it-infrastructure-composability-game/>
- **How NVIDIA, VMware Are Bringing GPUs to the Masses**
  - <https://www.eweek.com/pc-hardware/how-nvidia-vmware-are-bringing-gpus-to-masses>
  - NVIDIA and VMware to Accelerate Machine Learning, Data Science and AI Workloads on VMware Cloud on AWS Accelerated by NVIDIA GPUs  
<https://aithority.com/machine-learning/nvidia-and-vmware-to-accelerate-machine-learning-data-science-and-ai-workloads-on-vmware-cloud-on-aws-accelerated-by-nvidia-gpus/>
  - Accelerating AI With GPU Virtualization In The Cloud  
<https://www.nextplatform.com/2019/09/03/accelerating-ai-with-gpu-virtualization-in-the-cloud/>
- **VMware Everywhere—But AWS Still Key**
  - <https://www.crn.com/news/cloud/vmware-everywhere-but-aws-still-key>
- **Origin Energy pilots VMware Cloud on AWS**
  - <https://www.itnews.com.au/news/origin-energy-pilots-vmware-cloud-on-aws-530560>
- **Ahead of joining VMware, Pivotal reports strong earnings growth**
  - <https://siliconangle.com/2019/09/04/pivotal-reports-strong-revenue-earnings-growth-prepares-become-part-vmware/>
- **VMware, Bitfusion tackle AI infrastructure and alternative processors**
  - <https://siliconangle.com/2019/09/04/qa-vmware-bitfusion-tackle-ai-infrastructure-alternative-processors/>
- **VMware vSAN HCI: Complete stack or 'vaporware'?**
  - <https://searchconvergedinfrastructure.techtarget.com/news/252470169/VMware-vSAN-HCI-Complete-stack-or-vaporware>
- **Equinix, VMware team-up tackles enterprise hybrid-cloud demands**
  - <https://siliconangle.com/2019/09/03/qa-equinix-vmware-team-tackles-enterprise-hybrid-cloud-demands-vmworld/>
- **Jenni Flinders Confirms VMware Partner Connect Launch For Feb. 29**
  - <https://www.crn.com/slide-shows/cloud/jenni-flinders-confirms-vmware-partner-connect-launch-for-feb-29>
- **Fortinet extends support for VMware NSX-T Data Center**
  - <https://techobserver.in/2019/09/03/fortinet-extends-support-for-vmware-nsx-t-data-center/>
- **Infrastructure has entered the developer realm, and VMware knows it**
  - <https://siliconangle.com/2019/09/03/infrastructure-entered-developer-realm-vmware-knows-vmworld/>

## IBM

- **IBM's Power play is no sure thing, but open source gives reason for hope**
  - <https://www.techrepublic.com/article/ibms-power-play-is-no-sure-thing-but-open-source-gives-reason-for-hope/>
- **IBM Continues To Invest Big In High-Performance Computing**
  - <https://www.forbes.com/sites/patrickmoorhead/2019/09/06/ibm-continues-invest-big-in-high-performance-computing/#20ac97096c36>
- **IBM is a force to reckon with**
  - <https://www.crn.in/editorials/ibm-is-a-force-to-reckon-with/>
- **Red Hat rules the roost for container software market revenue, for now**
  - <https://www.fiercetelecom.com/telecom/red-hat-rules-roost-for-container-software-market-revenue-for-now-report>
  - Red Hat, Docker Lead Early Container Race  
<https://www.enterpriseai.news/2019/09/05/red-hat-docker-lead-early-container-race/>
- **Why Red Hat sees Knative as the answer to Kubernetes orchestration**
  - <https://www.techrepublic.com/article/why-red-hat-sees-knative-as-the-answer-to-kubernetes-orchestration/>
- **Home Office inks £45m border tech extension with IBM**
  - [https://www.theregister.co.uk/2019/09/04/home\\_office\\_inks\\_45m\\_border\\_tech\\_extension\\_with\\_ibm/](https://www.theregister.co.uk/2019/09/04/home_office_inks_45m_border_tech_extension_with_ibm/)
- **IBM plans Brazil cloud expansion**
  - <https://www.datacenterdynamics.com/news/ibm-plans-brazil-cloud-expansion/>
- **Optimize Your Cloud Storage Strategy for HPC**
  - [https://www.hpcwire.com/solution\\_content/ibm/cross-industry/optimize-your-cloud-storage-strategy-for-hpc/](https://www.hpcwire.com/solution_content/ibm/cross-industry/optimize-your-cloud-storage-strategy-for-hpc/)

Back to Top

## Lenovo / Huawei

- **Lenovo turns attention to IoT**
  - <https://www.itwire.com/hardware-and-storage/lenovo-turns-attention-to-iot.html>
- **Q&A: Claire Carter, Lenovo's Marketing Director for MEA**
  - <https://www.emeoutlookmag.com/news/qa-claire-carter-lenovos-marketing-director-for-mea>
- **Huawei may give Microsoft to something to worry about**
  - <https://timesofindia.indiatimes.com/gadgets-news/after-google-huawei-may-give-microsoft-to-something-to-worry-about/articleshow/70994499.cms>
- **Huawei ready to work with foreign nations to ease security concerns**
  - <https://english.kyodonews.net/news/2019/09/679347544628-huawei-ready-to-work-with-foreign-nations-to-ease-security-concerns.html>
- **Huawei touts more than 50 contracts for 5G as US pressure continues to mount**
  - <https://www.cnn.com/2019/09/03/huawei-touts-more-than-50-contracts-for-5g-as-us-pressure-mounts.html>
- **Huawei Accuses US of Cyberattacks, 'Menacing' Its Employees**
  - <https://www.sdxcentral.com/articles/news/huawei-accuses-us-of-cyberattacks-menacing-its-employees/2019/09/>
- **US networking equipment maker Ciena continues to thrive during Huawei ban**
  - <https://www.cnn.com/2019/09/05/investing/ciena-earnings-huawei/index.html>
- **Qualcomm says it's waiting to hear from the US on its license to sell technology to Huawei**
  - <https://www.cnn.com/2019/09/06/qualcomm-says-its-waiting-to-hear-from-the-us-on-its-license-to-sell-technology-to-huawei.html>
- **Huawei's Huge New Google Gamble Risks Losing Millions Of Users**
  - <https://www.forbes.com/sites/zakdoffman/2019/09/02/huaweis-huge-new-google-gamble-risks-losing-millions-of-users/#259ee9441b5f>

Back to Top

## Pure / NetApp / Nutanix

- **Tech spending intentions survey delivers good news for Pure Storage**

- o <https://siliconangle.com/2019/09/03/tech-spending-intentions-survey-delivers-good-news-for-pure-storage-cubeconversations/>
- **Google spends another \$100M with NetApp for Sunnyvale real estate**
  - o <https://www.bizjournals.com/sanjose/news/2019/09/03/google-sunnyvale-real-estate-netapp-purchases.html>
- **Google Could Acquire Nutanix For \$9 Billion To Further Its Cloud Ambitions**
  - o <https://www.trefis.com/stock/goog/articles/471959/how-much-could-google-pay-to-acquire-nutanix/2019-09-04>
  - o Nutanix's Dheeraj Pandey On Google 'Speculation' And 'Unprecedented' Transformation  
<https://www.crn.com/slide-shows/cloud/nutanix-s-dheeraj-pandey-on-google-speculation-and-unprecedented-transformation>
- **Nutanix: Turning A New Leaf**
  - o <https://seekingalpha.com/article/4289327-nutanix-turning-new-leaf>
- **GSCCO taps Nutanix as container volumes at Saudi ports rise**
  - o <http://saudigazette.com.sa/article/576005/BUSINESS/GSCCO-taps-Nutanix-as-container-volumes-at-Saudi-ports-rise>

[Back to Top](#)

## Other

- **Global vendor server revenue market contracts for first time in nine quarters**
  - o <https://www.channelweb.co.uk/crn-uk/news/3081288/global-vendor-server-revenue-market-contracts-for-first-time-in-nine-quarters>
- **Commvault To Acquire Hedvig In \$225M Deal, Speeding Up Software-Defined Storage Vision**
  - o <https://www.crn.com/news/storage/commvault-to-acquire-hedvig-in-225m-deal-speeding-up-software-defined-storage-vision>
  - o Commvault to Buy Hedvig for \$225 Million to Jumpstart Growth  
<https://www.bloomberg.com/news/articles/2019-09-04/commvault-to-buy-hedvig-for-225-million-to-jumpstart-growth>
  - o Commvault Acquires Hedvig  
[https://www.storagereview.com/commvault\\_acquires\\_hedvig](https://www.storagereview.com/commvault_acquires_hedvig)
  - o Commvault buys Hedvig in storage and data management unification play  
<https://blocksandfiles.com/2019/09/04/commvault-buys-hedvig/>
  - o Owl in a day's work: Commvault picks up software-defined type Hedvig for \$225m  
[https://www.theregister.co.uk/2019/09/04/commvault\\_buys\\_hedvig/](https://www.theregister.co.uk/2019/09/04/commvault_buys_hedvig/)
  - o Commvault acquires Hedvig storage for \$225M, moves beyond backup  
<https://searchdatabackup.techtarget.com/news/252470213/Commvault-acquires-Hedvig-storage-for-225M-moves-beyond-backup>
- **Workday CEO: Oracle and SAP Can't Match Us in Fortune 100**
  - o <https://cloudwars.co/workday-ceo-oracle-sap-fortune-100/>
- **Zain to boost cloud offer with Oracle Cloud Infrastructure FastConnect**
  - o <https://www.capacitymedia.com/articles/3824187/zain-to-boost-cloud-offer-with-oracle-cloud-infrastructure-fastconnect>
- **Can Google Cloud Beat Microsoft? Could Salesforce + IBM? Or Amazon + SAP?**
  - o <https://cloudwars.co/can-google-cloud-beat-microsoft-salesforce-ibm/>
- **Microsoft Acquires Cloud Migration Specialist Movere**
  - o <https://www.crn.com/news/cloud/microsoft-acquires-cloud-migration-specialist-movere>
- **Intel unveils Frontera, the world's fastest academic supercomputer**
  - o <https://venturebeat.com/2019/09/03/intel-unveils-frontera-the-worlds-fastest-academic-supercomputer/>
- **NVIDIA Powers GRC Immersion Cooled System at TACC**
  - o <https://insidehpc.com/2019/09/nvidia-powers-grc-immersion-cooled-system-at-tacc/>
- **Why May You Be Looking at A Multi-Cloud Future**
  - o <https://www.cbronline.com/opinion/multi-cloud-future>
- **Multicloud vs. multiple clouds: Do your clouds have anything in common?**
  - o <https://siliconangle.com/2019/09/06/multicloud-vs-multiple-clouds-do-your-clouds-have-anything-in-common-vmworld/>
- **Why the non-hyperscale cloud ecosystem is thriving**



- <https://siliconangle.com/2019/09/05/why-the-non-hyperscale-cloud-ecosystem-is-thriving-vmworld/>
- **AWS reduces file storage cost for Amazon EFS Infrequent Access**
  - <https://www.zdnet.com/article/aws-reduces-file-storage-cost-for-amazon-efs-infrequent-access/>
  - Optimize Storage Cost with Reduced Pricing for Amazon EFS Infrequent Access  
<https://aws.amazon.com/blogs/aws/optimize-storage-cost-with-reduced-pricing-for-amazon-efs-infrequent-access/>
- **Scale Computing & Acronis Partner On Data Protection, Continuity, & DR**
  - <https://www.storagereview.com/scale-computing-acronis-partner-on-data-protection-continuity-dr>
- **How Agencies Can Get the Most Value Out of Their Data**
  - <https://fedtechmagazine.com/article/2019/09/how-agencies-can-get-most-value-out-their-data>
- **Rackspace Unfurls Managed Kubernetes Service**
  - <https://containerjournal.com/topics/container-management/rackspace-unfurls-managed-kubernetes-service/>
- **Kaminario seeks to bridge on-premises and public cloud worlds**
  - <https://siliconangle.com/2019/09/03/kaminario-seeks-to-bridge-on-premises-and-public-cloud-worlds-vmworld/>
- **Enjoy the holiday weekend, America? Well-rested? Good. Supermicro server boards can be remotely hijacked**
  - [https://www.theregister.co.uk/2019/09/03/supermicro\\_server\\_flaw/](https://www.theregister.co.uk/2019/09/03/supermicro_server_flaw/)
- **Microsoft Azure Stack HCI for the Edge (2-Node HCI)**
  - <https://www.storagereview.com/microsoft-azure-stack-hci-for-the-edge-2node-hci>
- **Scale adds Acronis backup to HCI set-up**
  - <https://blocksandfiles.com/2019/09/04/scale-becomes-hyper-hyperconverged-adding-acronis-backup/>
- **Scale-out NAS hits the spot for large datasets, AI and machine learning**
  - <https://www.computerweekly.com/feature/Scale-out-NAS-hits-the-spot-for-large-datasets-AI-and-machine-learning>
- **The 5 Best-Selling Hyper-Converged Infrastructure Vendors Of Q2 2019**
  - <https://www.crn.com/slide-shows/storage/the-5-best-selling-hyper-converged-infrastructure-vendors-of-q2-2019>
- **Do You Know What 'Hyper' In Hyperconverged Infrastructure Really Means?**
  - <https://www.datacenterknowledge.com/industry-perspectives/do-you-know-what-hyper-hyperconverged-infrastructure-really-means>
- **AIOps and the Kubernetes Revolution**
  - <https://www.datanami.com/2019/09/04/aiops-and-the-kubernetes-revolution/>
- **GTDC CEO Frank Vitagliano On The Value Of Modern Distribution And The Opportunity Ahead**
  - <https://www.crn.com/slide-shows/channel-programs/gtdc-ceo-frank-vitagliano-on-the-value-of-modern-distribution-and-the-opportunity-ahead>
- **Fastest academic supercomputer powers up**
  - <https://qcn.com/articles/2019/09/03/frontera-supercomputer-tacc.aspx>
- **Mellanox Rolls Out New LinkX 200G & 400G Cables & Transceivers**
  - <https://insidehpc.com/2019/09/mellanox-rolls-out-new-linkx-200g-400g-cables-transceivers/>
- **DevOps Chat: Hybrid, Multi-Cloud Management for DevOps With CloudBolt**
  - <https://devops.com/devops-chat-hybrid-multi-cloud-management-for-devops-with-cloudbolt/>
- **Toshiba Acquires LITE-ON's SSD Business**
  - <https://www.storagereview.com/toshiba-acquires-liteon-s-ssd-business>
- **Earnings announcements:**
  - IBM 3Q 2018 – Oct 16, 2019
- **HPE Competitive Intelligence published several new deliverables in the past week, and these are available here:**  
**[hpe.seismic.com](https://hpe.seismic.com)** in the “Competitive Intelligence” tile (internal portal)

[Back to Top](#)