

# PROTECT YOUR DATA FROM MALWARE AND ENSURE BUSINESS CONTINUITY ON THE CLOUD WITH NAVLINK MANAGED AMAZON WEB SERVICES

– MANAGED AWS

**Improved  
performance**

**Faster  
go-to-market**

**Better  
security**

In today's disruptive world, safekeeping and protecting data has become a top priority for businesses.

Data has always been one of the most important assets and companies are always striving to ensure their data is secure at all times.

To this end, the cloud presents itself as the perfect solution for data protection with its various features that companies can benefit from.

Cloud computing provides a simple way to access servers, storage, databases and a broad set of application services over the Internet. Amazon Web Services – AWS allows you to purchase what you need on-demand and does not require minimum commitments or upfront costs.



With AWS, your organization can immediately provision the compute, storage, network, and database resources needed for any project. These resources launch and are ready for use within minutes. The environment can be reconfigured easily, updated quickly, scaled up or down automatically to meet usage patterns and optimize spending, or shut down temporarily or permanently.

Security at AWS is job zero. All AWS Customers benefit from a data center and network architecture built to satisfy the requirements of the most security-sensitive organizations. AWS and NavLink offer hundreds of services and features to help organizations meet their security objectives for visibility, auditability, control, and agility. When using AWS services, you maintain complete control over your content and are responsible for managing critical content security requirements, including what content you choose to store on, which services are used with the content, in what country that content is stored, and who has access to that content and how those access rights are granted, managed and revoked.

As an AWS customer, you can be assured that you're building web architectures on top of some of the most secure computing infrastructure in the world.

NavLink, as Amazon Web Services' consulting partner and provider, plays a key role in helping you migrate your data and workload to the cloud, assisting you in every step of the way from planning, designing, building, data migration, applications management, and finally resources and costs optimizations. We complement Amazon Web Services, and provide you with a turnkey managed service, while maintaining security, availability, and control.

## Service benefits:

- Design using AWS building blocks: Benefit from native AWS services (like Snapshots, AMIs, Storage, Route 53, CloudFront, etc ...) and build a fully integrated platform on the cloud.



- Cloud Management and Cost Optimization: NavLink handles to day-to-day management of AWS components and ensures that all services are available and resources usage is optimized. We also handle OS and application security in the cloud, thus complementing AWS shared security model.
- Migration of on-Premise workloads to the cloud: NavLink adopts a phase-driven strategy to migrate on-premise workloads, starting with assets listing and assessment, to building proof of concepts, data and application migration and finally configuration and optimization.
- Data backup to AWS storage. (S3 or Glacier): Part of NavLink Managed Cloud Backup service. Protects customers' data on the cloud and meets business and regulatory requirements.
- Hot and warm Disaster Recovery to AWS: NavLink helps Customers build a virtual hosting space to act as a disaster recovery site. Our solutions include hot and warm setups taking into account business recovery time and recovery point objectives, while resources utilization and costs are optimized.



- Web Hosting and AWS Mail (AWS WorkMail): a secure, managed business email and calendar service with support for existing desktop and mobile email client applications.
- Managed Virtual Desktops (AWS WorkSpaces): a fully managed, secure Desktop-as-a-Service (DaaS) solution which runs on AWS. With Amazon WorkSpaces, you can easily provision virtual, cloud-based Microsoft Windows desktops for your users, providing them access to the documents, applications, and resources they need, anywhere, anytime, from any supported device.
- Security Processes: NavLink complements AWS physical and network security services and follows best practices to ensure protection of customers hosted infrastructure and applications by enabling identity and access management, log analysis, OS security fine tuning, data protection, designs for high availability and disaster recovery, and finally 24x7 service desk dedicated to incident response and focused to reduce harm from attacks, and restore operations during and after a security incident.

## How we migrated our website to AWS - A customer success story

One of our customers in France Data Center was hosting his company website on an old platform which was at its end of support life cycle. The setup was very complex and required special skills to manage the hardware and Solaris OS.

Due to the lack of hardware support, the customer was hesitant to touch the platform or patch the OS. This reflected in serious security threats, and inability to also upgrade the content management software. The website became old, and unmanageable. We approached the customer with our Managed AWS service as an alternative to physical colocation.



## 1. Create an AWS free tier account:

In order to get a feel of public cloud offering, NavLink offered a 1-month free tier VM (AWS EC2 Instance) with Wordpress content management. Customer deployed a sample website and started testing response time, and getting familiar with Wordpress.

## 2. Proof of Concept:

Since the AWS EC2 instance and Wordpress were both completely managed by NavLink, the Customer didn't have to worry about patching, security hot fixes, or change requests on the OS. Instead they focused on the website redesign and content. They were convinced to fully migrate to AWS, so NavLink upgraded the free-tier setup to a t2.small production EC2 VM, and configured elastic load balancing, and autoscaling.

## 3. Moving to production:

Since the platform was now ready, it was a matter of scheduling the DNS redirect, which happened overnight. NavLink pro-active monitoring service was closely monitoring the traffic, site availability and response time.

## 4. Platform optimization:

One month after migrating to AWS, NavLink started noticing some delays in database response due to increased traffic. So we moved the Wordpress database to an AWS RDS instance, and continued monitoring the platform. Since NavLink follows a proactive approach the problem was anticipated and a fix was provided without affecting site availability or end user experience. The Customer was only notified about the potential problem and the deployed fix. 3 to 4 months down the road once traffic was stable, we got a better idea about the sizing and advised the Customer to move to a reserved instance which helped him cut more than 30% of this AWS spend.

## 5. Innovative Security Services:

At AWS and NavLink we believe in reducing costs for Customers, which allows them to spend more on additional innovative products. Once this Customer got a feel of AWS agility and elasticity, they adopted additional security services like route53 and Cloud-Front to protect their website from DDoS attacks, and created Cloud Formation templates as an ultimate solution for major disasters, data corruption or malware infection.



## 6. Managed AWS Service:

NavLink Managed AWS Service includes setting up the environment and accounts, integrating AWS building blocks, enabling proactive monitoring, fault management, customer online dashboard, instances backup, security tightening and platform and cost optimization.

TCO analysis shows that the customer was paying for quarter rack, and 50% of his resource time (not redundant), HW/SW support and licenses, in addition to expensive bandwidth, while now they just pay an estimated monthly fee of 100\$ for a managed highly available website. This allowed their team to start working on new innovative services, like big data analysis, SEO fine tuning, additional website features, etc.



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