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The Company

RAAD is an information technology (IT) software and service company that provides a unique solution for the automation of IT processes and tasks.

The Challenge

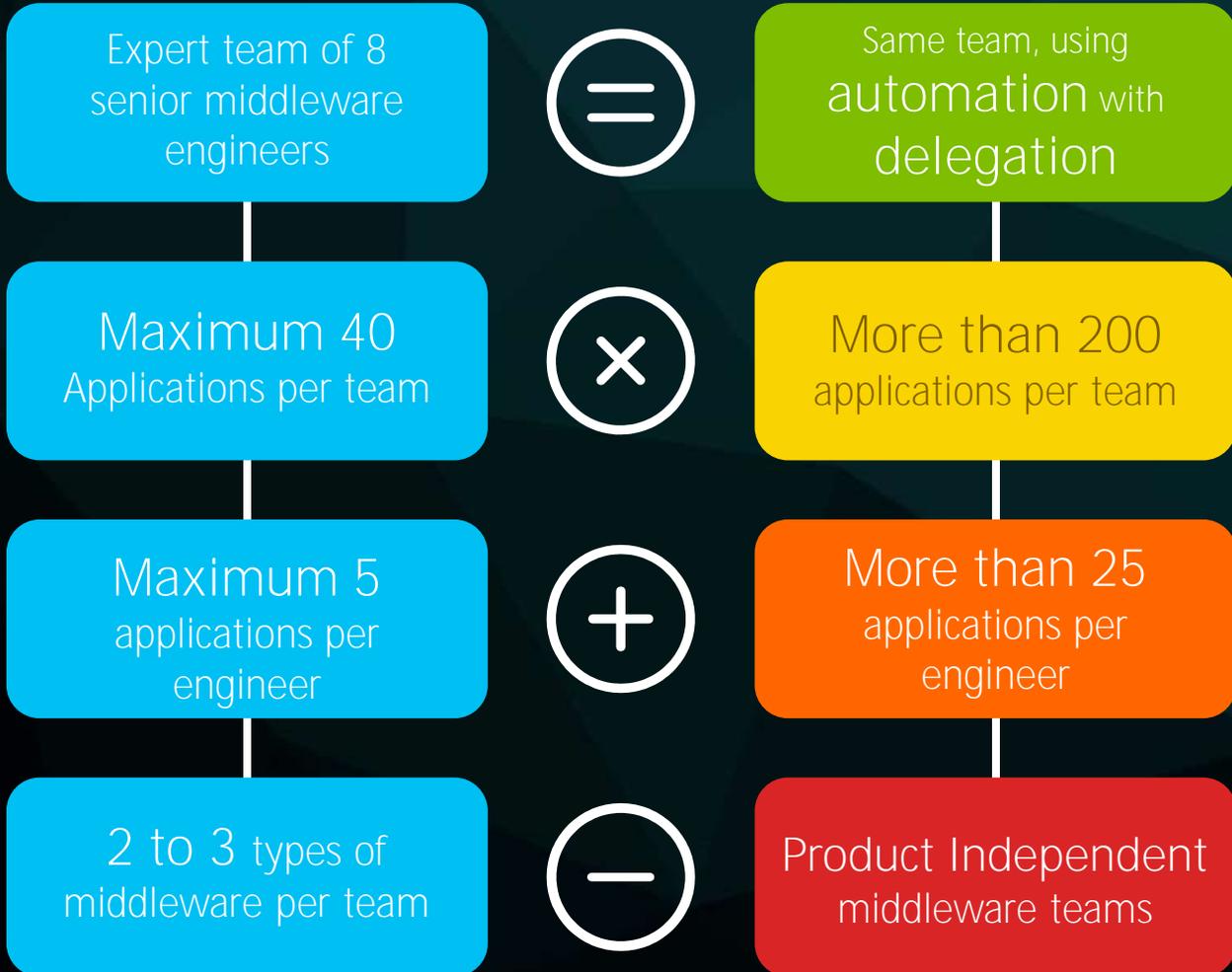
A True Automation Solution

The interdependence of IT personnel acts as a barrier to the full potential of DevOps+ and processes automation. Existing solutions in the global market don't resolve the interdependency problem and they can't deliver the full benefits of a true automation solution.

Only **“Automation with Delegation”** can eliminate interdependency, bring greater earnings, and deliver productivity superior to conventional solutions.



Our Inspiration Was A Success Story. "The Silent Automation Revolution..." (2005).



The Results

Automation with delegation made them 5x more productive and product independent, this team of 8 was performing the workload of 40 engineers.

The company saved \$3.2 Million USD a year.

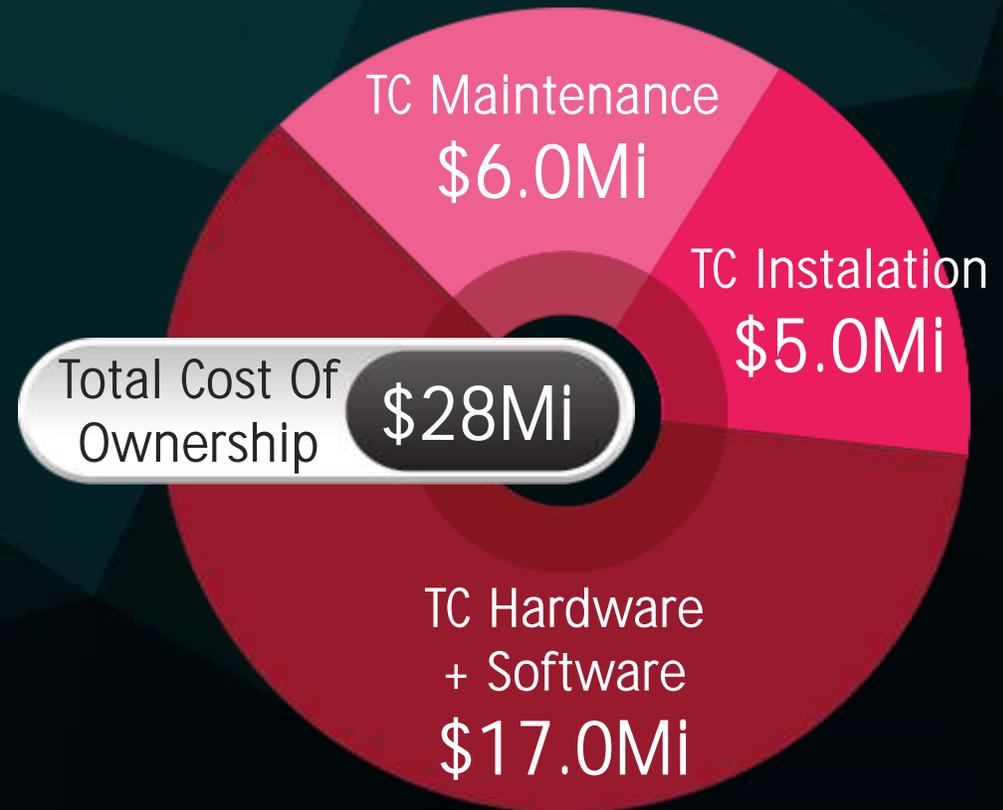
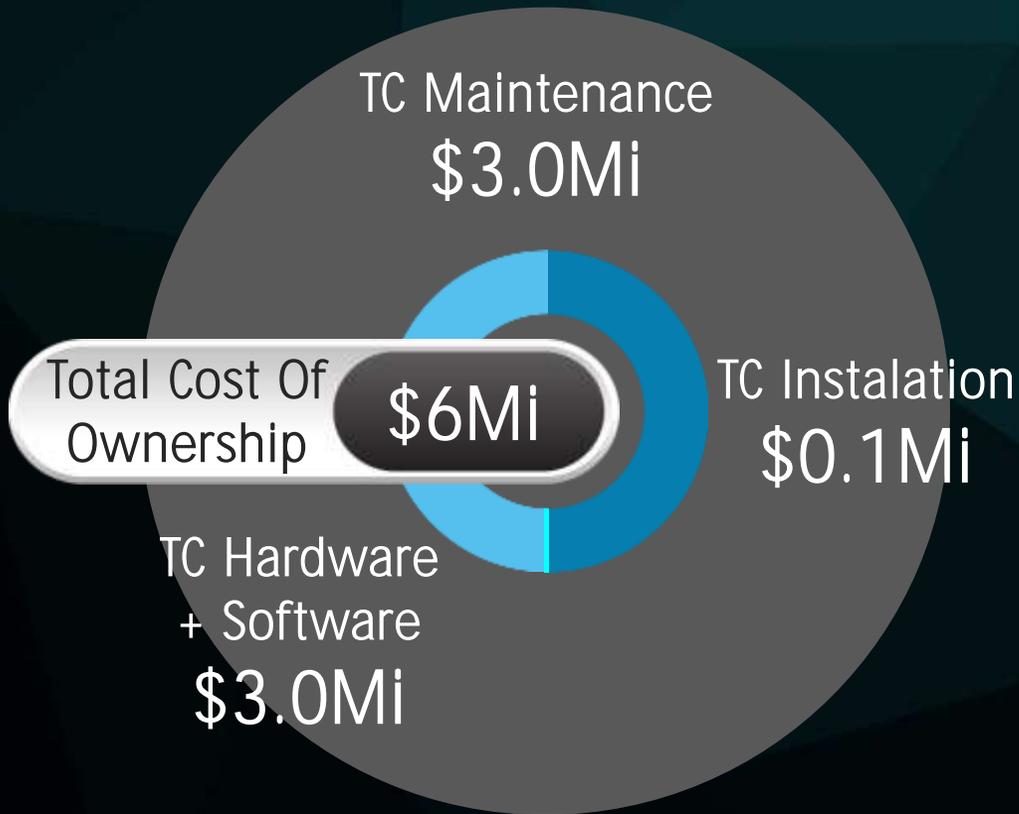
(Saved the company from hiring 32 additional engineers and the average cost of a Middleware Engineer is 100k/year per)



Our Inspiration Was A Success Story. "... Became An Automation Debacle" (2008)

RAAD

Current Market Solution



TC = Total Cost



A RAAD SOLUTION OF AUTOMATION WITH DELEGATION

A solution as simple and universal as the 4 operations



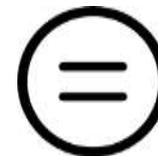
What is the **RAAD** solution?

Remote **A**ministration, **A**utomation, & **D**elegation

- + **RAAD** is a configurable set of modules able to administrate, automate, secure, and remotely execute IT tasks and services.



- + **RAAD** is an agentless/clientless web-based solution that enables IT tasks and processes to be “delegated” on-demand by designating individuals and/or groups without interfering with other systems.



Distribute tasks, multiply efficiency, add security, reduce costs and maximize IT performance.

The Equation For RAADical Results

Simplicity and Precision



DEVELOPMENT
Multiply the teams
productivity



OPERATIONS
Distribute tasks and
responsibilities

RAAD



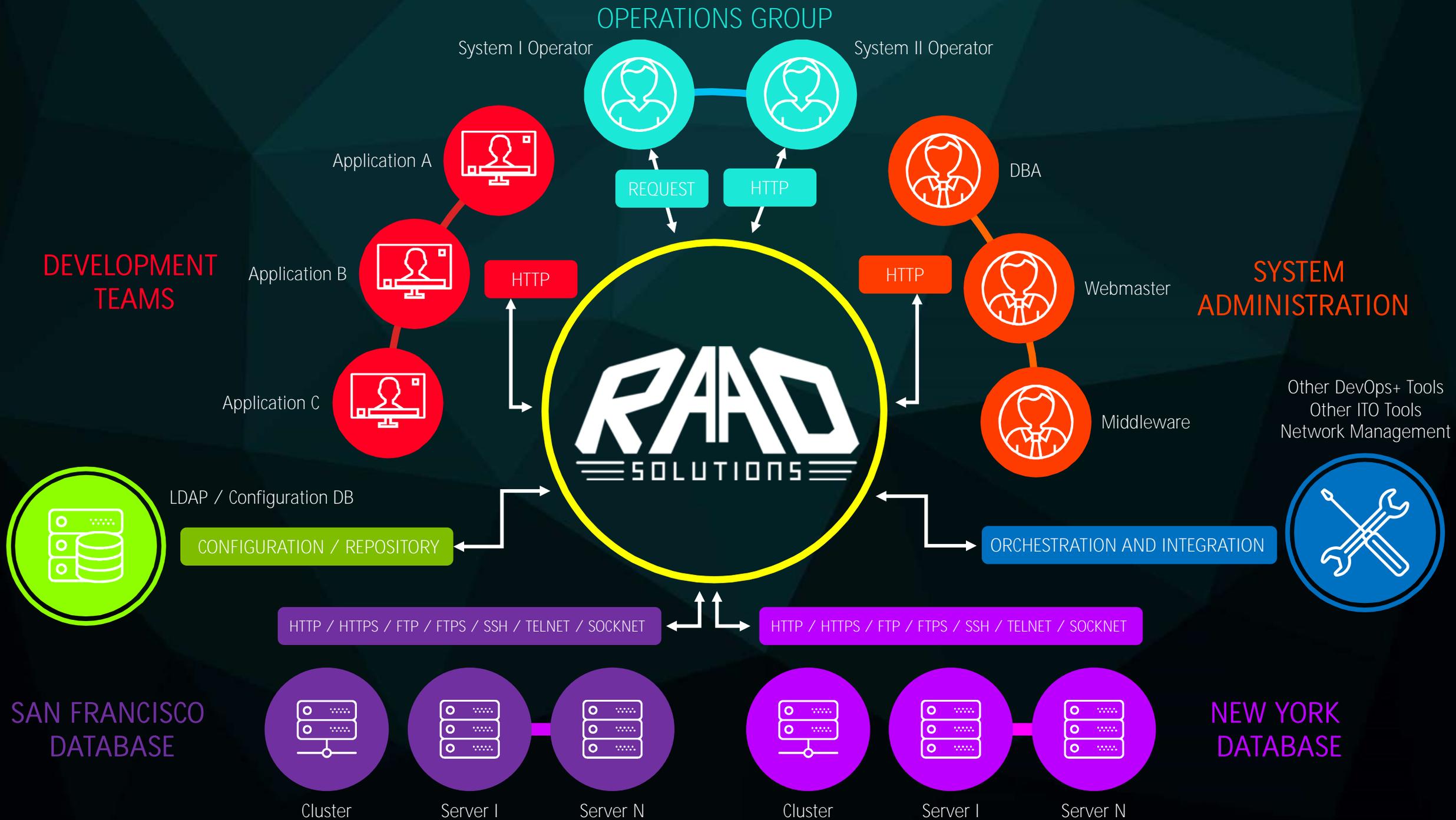
Automation with
Delegation



SYSTEM
ADMINISTRATION
Simplify solution
management



SECURITY
MANAGEMENT
Improve security controls





What Can RAAD Do For You?

Automate your IT processes without changing your existing processes.



Efficiency:

Get all DevOps+ and automation tools you need in a single product.



Expenditures:

Automate your company's existing IT processes without the need to modify them.

More Automation = Less Cost



Productivity:

Combine "Automation with Delegation" to multiply your teams productivity. Our solution is intuitive, adaptable, and has a fast implementation cycle for a quick return.



Tasks:

Divide and distribute the workload through automation and access controlled delegation.

- + Provisioning
- + Application Deployment
- + Code/Content Deployment
- + Customizable Approval Workflow
- + Remote Execution of Scripts/Programs
- + Remote File Managements
- + Auditing Trailing
- + E-mail Notification
- + Data Center Automation
- + Log/File Access
- + Web Access Control (Proxy)
- + Task & Process Scheduling



Automation With Delegation

The Equation That Brings Results

Subtract

- Eliminate IT team interdependence
- Reduce complexity of IT processes for end users
- Decrease priority conflicts that result in productivity deadlock
- Reduce IT workload and costs by automating time consuming processes

Add

- + Automation of tasks and IT processes
- + Greater productivity on the DevOps+ cycle
- + Greater simplicity and agility on processes
- + Happier and more effective IT teams

Automation with Delegation

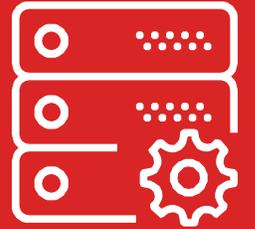
Understanding how the RAAD Solution works



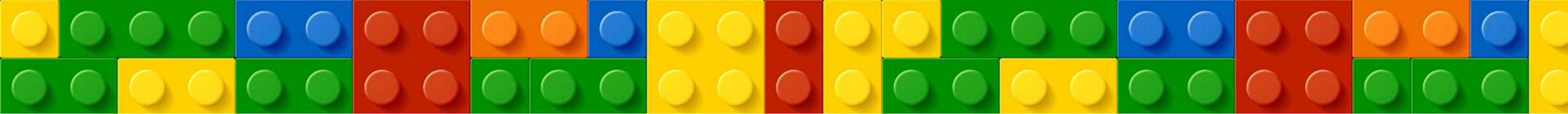
Admins create customizable user profiles within RAAD that implement the "Least Privilege" security model



A RAAD user, logs into the application in order to use the privileges assigned to their profile.

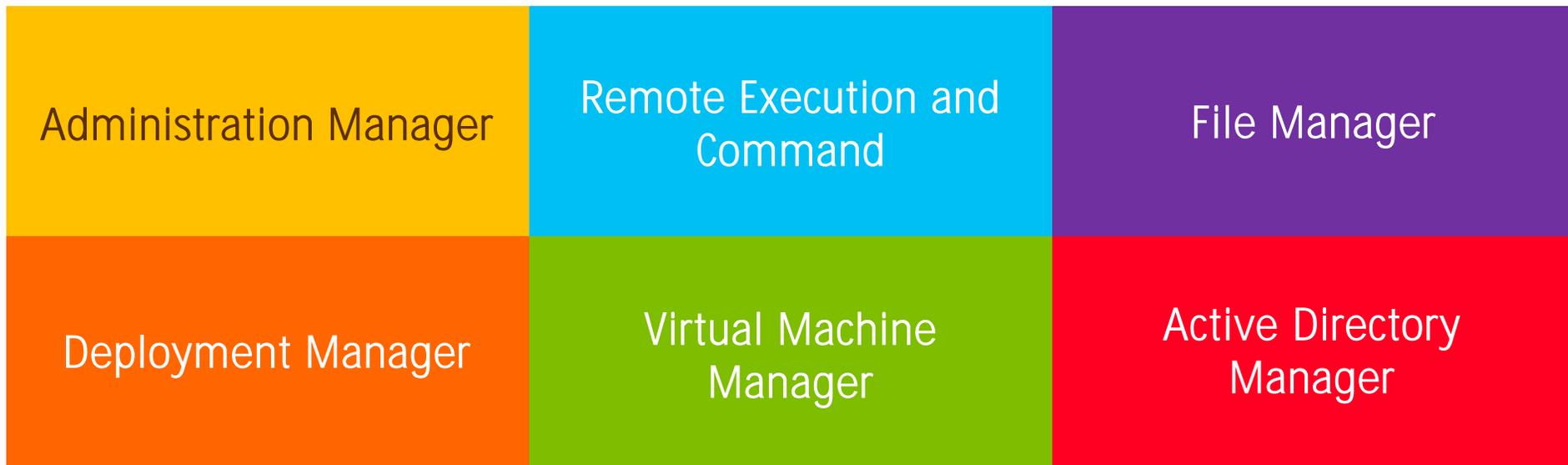


RAAD Delegates IT processes directly to the individuals authorized to use them, thereby Maintaining internal security protocols and compliance.



Pick The Modules You Want To Define The Range Of Automation

Use as few or as many of the modules you want to create your own custom RAAD Solution



Add modules, distribute tasks, multiply efficiency, and reduce costs





Rapid Implementation Cycle and Return

RAAD's small footprint consumes minimal hardware and network resources.

RAAD only requires a single application server to run: (Servlet Container) such as: JBOSS, Weblogic, Websphere, etc.

RAAD is intuitive to use, quick to implement, easy to integrate, and simple to maintain.

RAAD can be deployed on-site or in the cloud.



Less Complexity:

Unique Architecture

- + Delegation-centric system design.
- + Agentless and clientless architecture.
- + A modular solution that configures to your business.
- + Operating system agnostic.
- + Horizontal scalability for performance.
- + Tools for DevOps+ toolchain and process automation.
- + Executes scripts and codes in any language.
- + Native operating system security integration.
- + Uses “Least Privilege” access model.
- + Web-based application for mobility.
- + Automated reporting, logging, and email notifications.



Operator Profile (DevOps+)

- + Run processes sequentially and/or parallel on multiple servers.
- + Run similar processes (e.g. start/stop) for different products on multiple platforms
- + Monitor processes and services on multiple platforms.
- + Scheduled execution of programs, code, and content.



Operation Scenarios (DevOps+)

Ask the Operator how they feels when:

⊖ Without RAAD

As an operator, I need to execute a complicated script that requires me to manually enter many parameters on 20 different servers.

We have applications running on Oracle data base, MySQL and Sybase, and I have to remember a different command for booting and shutting down each of them.

I need to reboot every instances of an application, on each server, across all of our data centers.

Development personnel are constantly asking me to bounce their Web or Applications servers. This is hindering the Production Schedule (OPS).

⊕ With RAAD

RAAD provides tools to automate all of these tasks and many more.

E.G. The operator can create a single Script and use RAAD to execute it on all the servers in every data center at the same time.

RAAD is able to DELEGATE specific tasks to Development without giving elevated access or breaking any security rules.



Developer Scenarios (DevOps+)

- + Start the development server.
- + Stop the development server.
- + Bounce the development server.
- + Execute an automated test unit.
- + Promote a build to the quality assurance team.
- + Monitor the development server.
- + Pull a log file from the production server (without sensitive information).



Development Scenarios (DevOps+)

Ask the Developer how they feel when:

⊖ Without RAAD

I need to restart the test application server that only runs my application, but the OPERATOR is busy with a severity 1 issue.

I need to deploy my application to our test environment, but the ADMINISTRATOR has other priorities.

My Application is failing in production and I need to see the web, application, and database log to determine the root cause.

A problem in processing failed to remove the lock file of my application, and now it cannot run it's normal cycle

I need to see the application files in production to validate the version.

⊕ With RAAD

RAAD is able to DELEGATE all the necessary permissions for Developers to perform these tasks without giving them elevated access.

This removes the interdependency between Devs and Ops without breaking security rules.

(Function Delegation).



Administrator Profile (DevOps+)

- ⊕ Run installation scripts on multiple servers.
- ⊕ Implement deployment and provisioning workflow
- ⊕ Create, store, and restore snapshots of infrastructure configurations.
- ⊕ Run distributed processes.
- ⊕ Grant access to unstructured data (e.g. log files, applications properties, etc.).



Administrator Scenarios (DevOps+)

Ask the Administrator how they feel when:

⊖ Without RAAD

Everyday I need to make application deployments that are executed on various servers, in each of our three DataCenters, for many different environments.

The Development team is asking me to rebuild the test environment.

The Developers are always asking me to download Log files from properties, reports, etc.

I need to install ten instances of this software on each of the 60 servers distributed across three Datacenters.

I need to check this parameter on all instances that run an application, on every servers, in each datacenter.

⊕ With RAAD

The Admin can use RAAD to delegate all these tasks directly to the Developers without breaking compliance or security rules.

RAAD can automate these tasks, so they can be executed quickly and easily.



Security Features (DevOps+)

- + Mandatory access control.
- + Customizable role based permissions.
- + Individualized profile views.
- + Use your own authentication.
- + Single sign on.
- + Multi-Tier.
- + Doesn't require elevated access (root).
- + Leverage your underlying security.



Security Scenarios (DevOps+)

Ask Security how they feel when:

⊖ Without RAAD

Administrators require root access to setup systems, but Security needs to keep a controlled environment.

Developers need to access the production logs on the servers that run their applications, so security has to tie over permissions.

We need to control, track, and audit who has access to each function in every system.

We need to implement Sarbanes/Oxley (SOX) compliance and still ensure personnel productivity.

⊕ With RAAD

RAAD implements a mechanisms that allows these functions to be delegated in a secure and **controlled way that doesn't break compliance or** security rules.

These are resources natively implemented in the RAAD tool.



Remote File Managing

- + Platform agnostic.
- + Distributed access.
- + Non-blocking access.
- + Virtual access via web.
- + Customized access control.
- + Email notifications.
- + Audit trails/logging



Remote Files Management Scenarios

⊖ Without RAAD

Access to production log files for debugging purposes.

Access to configuration files in Production for validation and/or troubleshooting.

Access to reports and/or application related files required by the end user.

Access control can be filtered by profile to select which files a user can see and how they can interact with them.

+ With RAAD

RAAD provides a clear way to address all of these requirements with a graphical interface that is agnostic to the underlying system.

Requirements are audited by the Administration module.



Remote Execution

- ⊕ Execute files, scripts, & programs remotely.
- ⊕ Simple and agile administration.
- ⊕ Ad-hoc and scheduled execution.
- ⊕ Run sequentially or in parallel.
- ⊕ Online and batch execution.



Remote Execution Scenarios

⊖ Without RAAD

A command needs to be run to reset a flag in a file on an application that runs on a remote server (e.g "del my_flag_file").

A service that runs on multiple servers needs to be re-started sequentially (one server at a time).

Information needs to be analyzed and action taken on a large number of servers. (e.g. certificate expiration and renewal).

Files need to be extracted from multiple servers and consolidated into a single location for analysis.

⊕ With RAAD

The Commands and Scripts that you already use to execute these functions can be transferred to RAAD and remotely executed whenever needed.



Deployment

- ⊕ Customizable deployment execution
- ⊕ Define multiple environments and deploy them independently
- ⊕ Set authorization requirements for each environment.
- ⊕ Ad-hoc and scheduled deployment.
- ⊕ Promote between environments
- ⊕ Version backups.
- ⊕ Email notification.
- ⊕ Audit trails/logging.

 | Deployment Scenarios Without RAAD

I need to deploy my application in our test environment, but the system administrator has another priority.

The deployment of my application needs to be done on the application server and the web server.

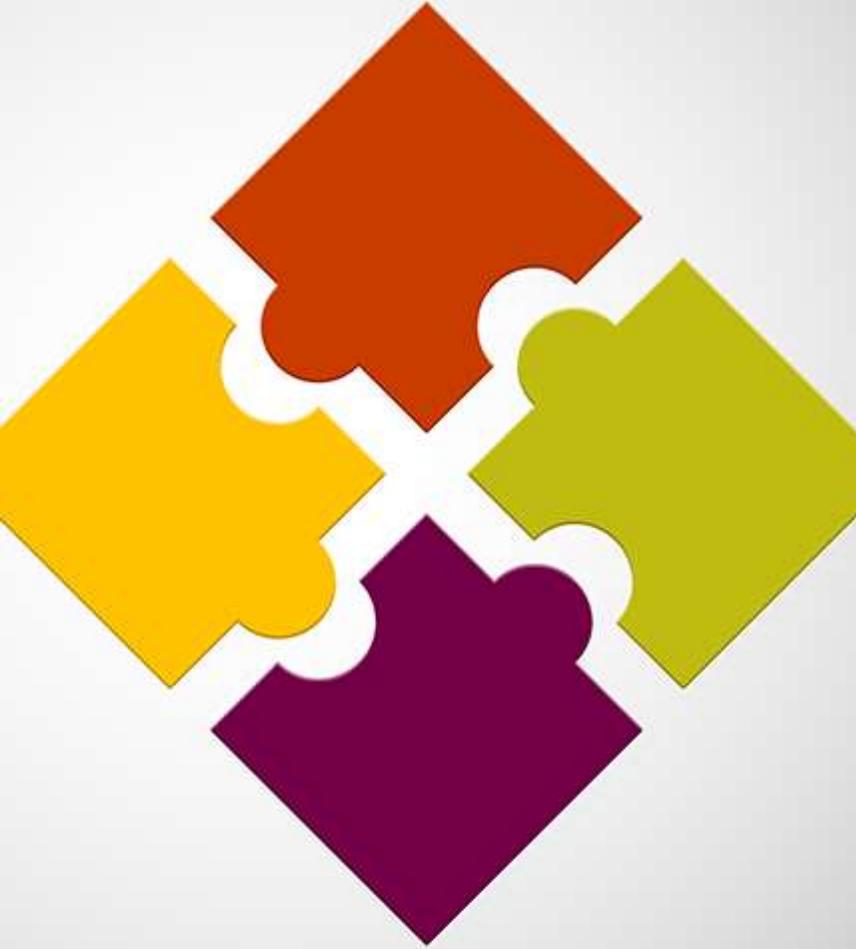
My code deployment requires another resource to be deployed at the same time. (e.g. a table created in a database)

This application runs on 6 servers inside of 3 Datacenters. So each time I have to deploy a new update, it takes 18 deployments

 With RAAD

The deployment module can implement an authorization/promotion workflow and use the remote execution to allow RAAD to address all these scenarios in a very flexible way

All those functions can be delegated to different people that performing different roles.



Orchestration and Integration

- + We need to orchestrate and integrate different products, technologies, and functionalities that do not natively work with each other.



Orchestration and Integration Scenarios

⊖ Without RAAD

Investment has already been made in a series of tools, but these tools need to be integrated and/or automated.

Products on the market require either a “fat” client or significant virtualization infrastructure to run in a browser.

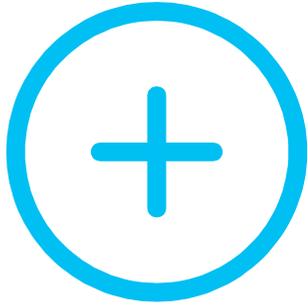
Existing products only partially automate the DevOps+ cycle, we need our existing tools to work together in an orchestrated way to implement a complete solution.

⊕ With RAAD

RAAD can orchestrate the usage/operation of different products that do not naturally integrate with one another.

The integration, automation, and orchestration of different products is a central concept of RAAD. We take all your existing/deployed solutions and make them **accessible in RAAD’s unified web desktop graphic interface.**

As an additional benefit, RAAD adds it’s functionality to any integrated tools our clients already own.



Add Resources:

Other Modules and Functionalities



Job Scheduler

- ⊕ Scheduled execution of scripts and commands.
- ⊕ Web-based URL execution.
- ⊕ Supports job parameters.



URL Access Control

- ⊕ Create content filters and limit user access to predefined URLs.
- ⊕ Control access to micro-services
- ⊕ Audit URL access of users.



Chat Room

- ⊕ Predefined and dynamic room support.
- ⊕ Supports direct chat.
- ⊕ Simplifies communication.



Less Complexity:

Unique Architecture

- + Delegation-centric system design.
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- + A modular solution that configures to your business.
- + Operating system agnostic.
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Fábio Rodrigues – CTO
30 Years of DevOps+ Pain



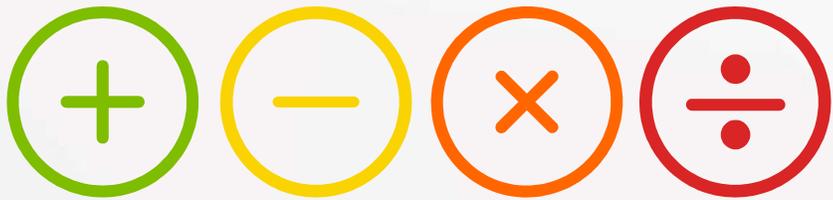
Antonio Candal - CEO
30 Years of IT Management Pain



Brent Ahem – CCO
12 Years User Interface Design



Together, we can turn your IT team into an army.



As solution as simple and universal
as the 4 basic operations

Let us make a Proof of Concept (PoC)?

Together, we can turn your IT
team into *an army!*

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