



# Automating Check Point Operations

---

Profile-Based Monitoring and Time Efficient Versioning



# Profile Based Monitoring Challenges

## Environment

How do we differentiate between different environment?

## Peaks and Anomalies

How do we set the right thresholds?

## Sizing

How do we take into account growth over time?

## Alerting

How do we eliminate false positives?

## Reporting

How do we gain visibility to the data?

# Profile Based Monitoring Solution

 Environment

Learn and Profile

 Peaks and Anomalies

Set deviation-based  
thresholds

 Sizing

Store data over time and  
adjust averages

 Alerting

Use time to your  
advantage

 Reporting

Report to show  
anomalies and growth

# Profile Based Monitoring Use-Case

## Environment

250 Gateways

Worldwide Distribution

NOC Teams needs to react to real events

Management needs periodic reports

## Deployment

20 Minute interval monitoring including:

CPU – Per Core

Interface Throughput (including per VS)

Interface Errors and Drops

Connection Table

RAM Usage

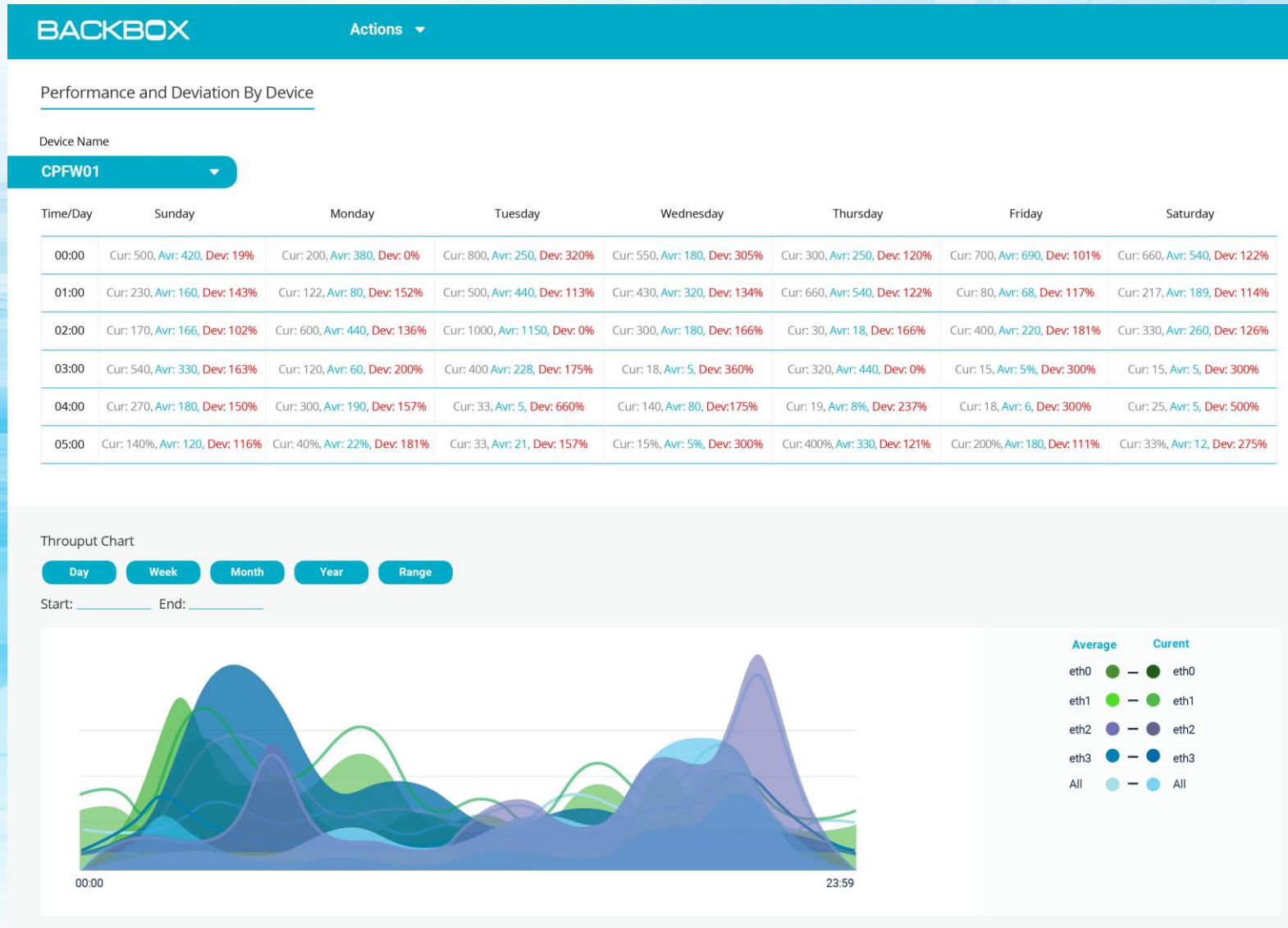
SWAP Usage

## Result

Real-Time Alerting on Deviation from averages based on time

Weekly reporting on environment growth

# Deviation report



# Time-Efficient Versioning Challenges

## Pre-Upgrade Operations

Backup, file upload,  
verification

## Pre-Upgrade Checks

Application Availability  
unknown

## Upgrade prone to failure

Bad code, disk space, human  
error, validation failure

## Post Upgrade Operations

Version, System  
Parameters

## Post-Upgrade Checks

Application Availability

# Time-Efficient Versioning Customer Story

## Environment

800 Clusters

Each Cluster takes 4 Hours

2 Maintenance Windows per week

4 Cluster upgrades per maintenance window (4 engineers)

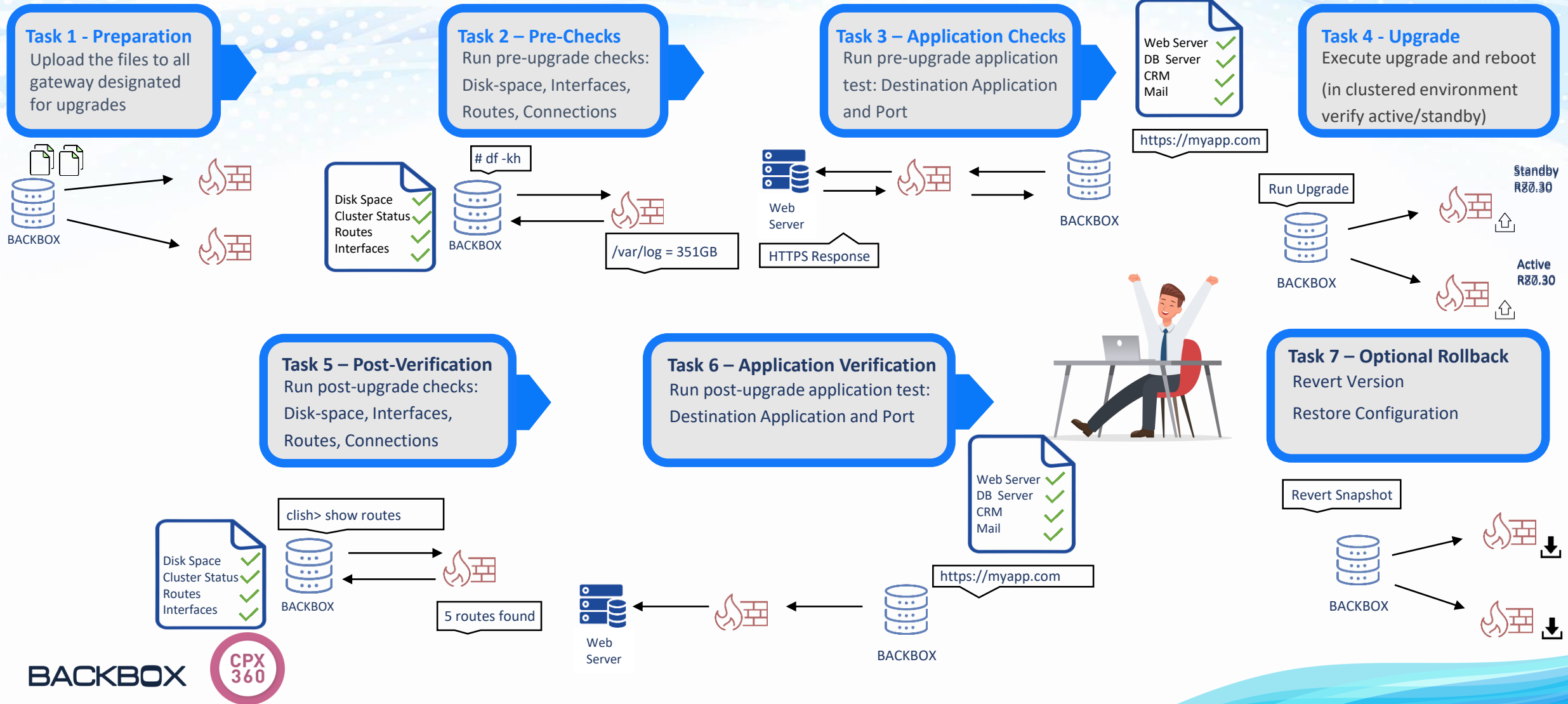
## Full Environment Upgrade

Engineer Time – 3200 Hours

Calendar Time – 100 Weeks



# Time-Efficient Versioning Solution





# Full Environment Upgrade



Engineer Time – 3200 Hours Calendar Time – 100 Weeks



**Engineer Time Savings** – 3 Hours per cluster  
**Total effort** - 800 Hours  
**Calendar Time** – 20 Weeks

# Thank you

---

BackBox Intelligent Automation Platform  
for Security and Network Devices

[backbox.com](https://backbox.com)

