

Enabling a Zero Incident Enterprise TM

Rapid Digitization and Impact on IT Operations



A company's ability to compete in the emerging digital economy will require faster-paced, forward-looking decisions



Application downtime costs Fortune 1000 firms \$1.25B to \$2.5B per year

- The avg. cost of infrastructure failure is \$10,000/hr.; 35% of companies take 1-12 hr. to fix an infrastructure outage
- > 17% need 2-7days to resolve an infrastructure failure

During an outage, 60% of companies took more than 15 min. to identify the team responsible for an outage

Data losses & outage cost enterprise \$1.7 Trillion globally

Enterprise IT teams are experiencing a significant amount of repeat IT incidents. More than a quarter of incidents had occurred earlier for 50% of companies

Modern enterprises need actionable and predictive insights to better manage vast IT operational datasets

Zero Incident Framework TM

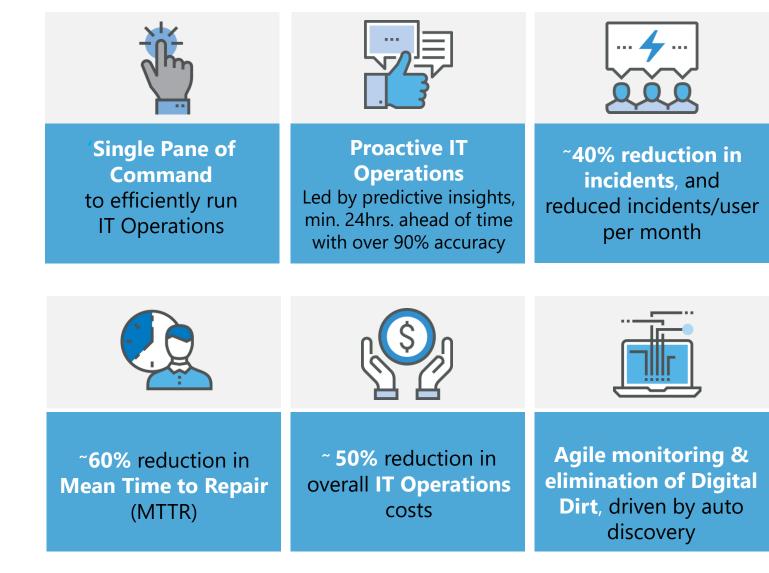


EXPLORE THE
POWER OF
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CERO INCIDENT ENTERPRISE™

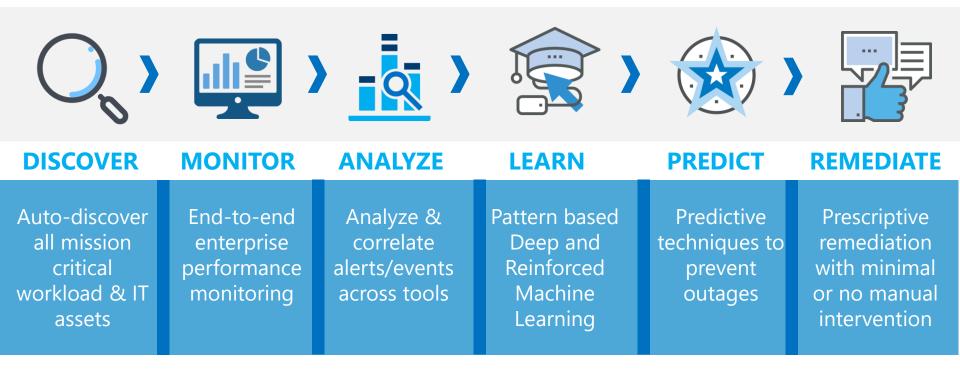
AlOps based TechOps platform that enables proactive detection and remediation of incidents helping organizations drive towards a Zero Incident Enterprise TM

Outcomes Delivered





Zero Incident Framework TM – Solution Components

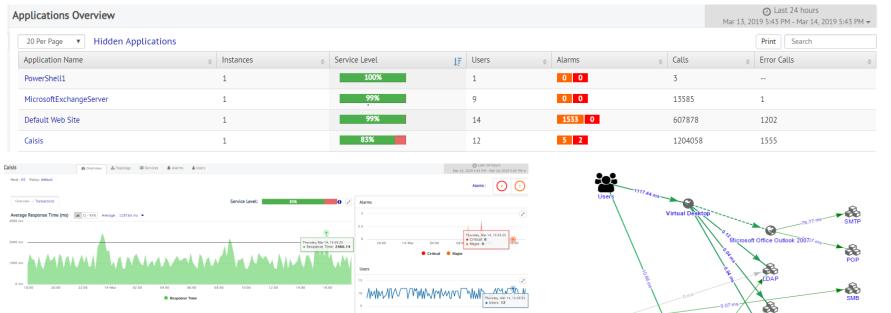


Comprehensive set-of features to enable a Zero Incident Enterprise ™

Discover

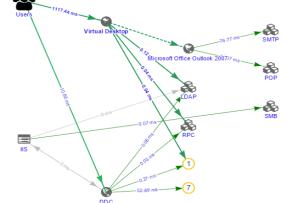


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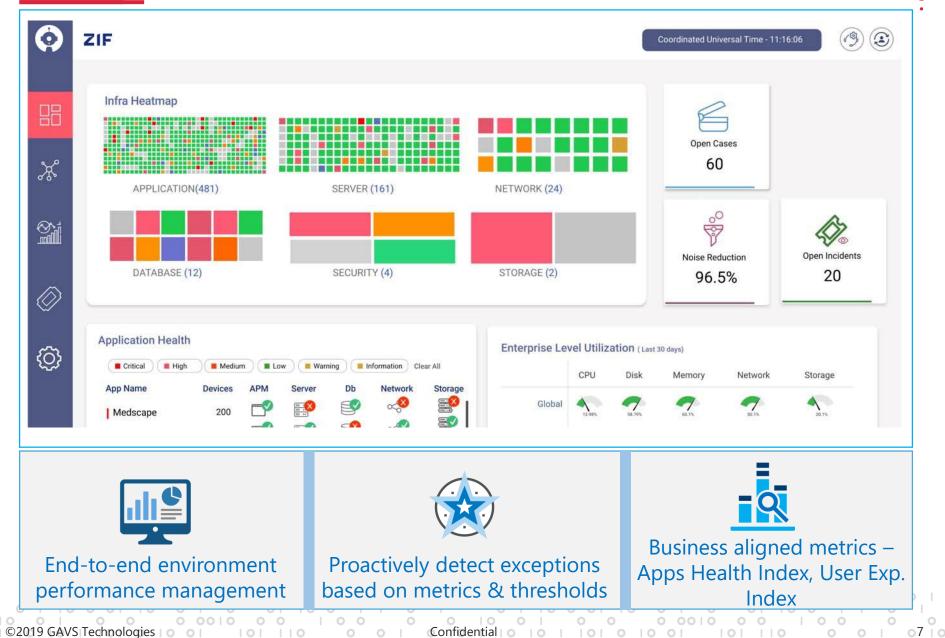
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APP Automatic application discovery Real-time topology across Microservices-aware layers - Infrastructure to & dependency mapping infrastructure-view **Microservices** actually running right now 100

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Monitor



Analyze

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	w Alerts 🕞 Case Management (20,988)											[*	411 E
•ø	GAVEL120930 FAILURE 8lt;ActCode>UX&It/ActCode>	4 55	13	% 5	14	Righ	Z 20mins	O 10mins	80%	95%		Analytics Automate	
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- ø	GAVEL120916 At least one HDB service of database July 13, 2018 16:12:26 Suggested Technician : Paul Pandey	∆ ₀9	24	% 16	2 9	Low	A2mins	O 33mins	2 83%	95%	5	Analytics	
• 8	GAVEL134530 Alarm 'Host memory usage' on June 15, 2018 13:32:56 June 15, 2018 24:00:00 Suggested Technician : Gibbs Muni	10	20	**	22	1 Medium	X 11mins	O 10mins	70%	¥. 85%		Analytics & Automate	•
۰ø	GAVEL125567 Database Connection Time. The average June 12, 2018 09:32:56 Sep 25, 2018 09:15:00 Suggested Technician : Paul Pandey	A	32	% 34	12	A High	X 11mins	O 10mins	70%	85%		Analytics & Automate	

- حجک -حجک -Advanced Intelligent Incident Analytics (AIIA)





Root cause analysis

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Learn

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4	🕽 Raw Alerts (1.157M) 🖄	Case Management				C.	ŧîţ	*	5
	Device / Application Name	Туре	Tool Name	Alert Description	Date / Time Stamp	Case	ID		
1	PhoneBanking	BUSINESS_TRAN	APPDYNAMICS	AppDynamics has detected a problem with Business Transaction &Itb>Phone - EAI.7	2019-03-13 14:13:55				
I	PhoneBanking	BACKEND	APPDYNAMICS	AppDynamics has detected a problem with Backend Phone - EAI - 777 - 000.8	2019-03-13 14:13:55				
ſ	IHYDSUNT5-08-LD01 669603225	GlobalZone	OPSCENTER	FileSystemUsage /Internet Banking monitoring /Internet Banking has reached 85.30566	2019-03-13 14:13:55				
	HYDFINNAPP01 Loans App	j2ee_application	OEM	The JZEE Application is down	2019-03-13 14:13:55				
	Loans App	APPLICATION	APPDYNAMICS	AppDynamics has detected a problem with Application Loans App	2019-03-13 14:13:55				
	GCAREQAAPP112		FOGLIGHT	Member Overall Cache Hit Ratio. The overall hit ratio is 54.04% for member 7 of databa	2019 <mark>-03-13 14:13:55</mark>				
	GCAREQAAPP115		FOGLIGHT	Database Connection Time. The average connection time to the database PM2 is 188.0	2019-03-13 14:13:55				
	HYDFINNAPP04 Loans App	j2ee_application	OEM	The J2EE Application is down	2019-03-13 14:13:55				
Ī	PhoneBanking	BUSINESS_TRAN	APPDYNAMICS	AppDynamics has detected a problem with Business Transaction &Itb>Phone - EAI.7	2019-03-13 14:13:55				
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i.	PhoneBanking	BUSINESS_TRAN	APPDYNAMICS	AppDynamics has detected a problem with Business Transaction ⁢b&qtPhone - EAI.7	2019-03-13 14:13:45				



Reinforced Learning



Automatic & iterative pattern identification

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Predict

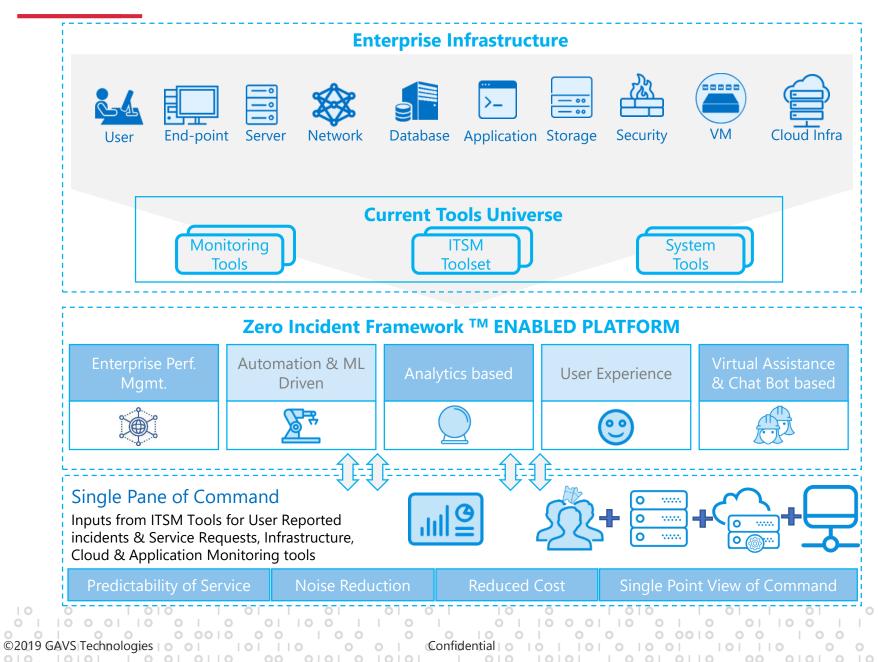
	Opportunities	erprise Overview				411 B		
	Predicted Risk (Warning) - ()	7	Currently at Risk (Critical) -	04	Processed / Void - 02			
× € €	Opp ID - 0000000878 ② 1 2 1 ③ 62 mins © 55 mins Cpu utilization of 'EPABCPV1' Device - ○ 0 1 ④ 1 ○ 0 1 ● 0 ○ 1 ● 1 ○ 1 ● 1 ○ 1 ● 1 ○ 1 ● 1 ○ 1 ● 1 ○ 61 mins ○ 50 mins Device "EPCP5SV1' is consuming more ○ 0 ● 0 ○ 1 ● 1 ○ 1 ● 1 ○ 1 ● 1 ○ 1 ● 1 ○ 1 ● 1 ○ 1 ● 1 ○ 1 ● 1 ○ 51 mins ○ 51 mins Device "EPW15's consuming more Memory ○ 0 ● 0	Opp ID - 0000000879	Opp ID - 0000000880	Opp ID - 0000000882	Opp ID - 000000872	Opp ID - 0000000874 P 1 2 1 1 1 Q -20 mins C 8 mins High CPU ulitzation will impact the M P P D I III 1 M P P IIII 1 M P P IIIII 1 M P P IIIIII 1 M P P IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
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Capacity planning & utilization			Automatic Orchestra		Predict & Prescribe to avoid application failure			

Remediate

٥	Raw Alerts 🖶 Case Management (2.540k)										🖽 🔣 💩 🖆 fil 🕱 🌱
ł	GAVEL21919 Critical - URL Respond State - Fail URL Fail to respo : 2019-02-19 11:49:01 : Suggested Technician : Paul Pandey	∆ 1	1	% 1	1	 Medium	Z 20mins	C 24mins	<u>∆</u> ⊘ 20%	36 93%	Automation - GAVEL0000021919
	GAVEL21884 Major - Server Up Time Status - 36 to 50 Days Serve : 2019-02-19 11:49:01 : 2019-02-19 11:49:01 Suggested Technician : Pooch Patrick	△ 4	1	% 1	2	n Medium	X 34mins	C 21mins	<u>∆</u> ⊘ 20%	Ж 93%	Dynamic Resource Allocation * Sub Category
1	GAVEL21867 Major - Server Up Time Status - 36 to 50 Days Serve : 2019-02-19 11:49:01 : Suggested Technician : Nick Xavy	△ 1	1	% 1	— 1	🔗 High	Z 21mins	C 21mins	∆ ⊘ 21%	36%	CPU Current Value
1	GAVEL21844 Major - Server Up Time Status - 36 to 50 Days Serve 론 : 2019-02-19 11:49:01 론 : Suggested Technician : Pooch Patrick	△ 1	1	% 1	2		X 38mins	C 32mins	∆ ⊘ 32%	266 90%	Units of Measure Percentage
^	GAVEL21808 Critical - URL Respond State - Fail URL Fail to respo 론 : 2019-02-19 11:49:01 문 : Suggested Technician : Abd Moham	∆ 1	1	% 1	1	- Medium	X 28mins	C 36mins	<u>∆</u> ∂ 36%	X 97%	Apply Cancel
Â	GAVEL21565 Directory Active status - In-Active Directory Fails = : 2019-02-14 07:52:49 = : 2019-02-19 11:49:01 Suggested Technician : Dhara Sam	∆ 2	1 1	% 1	1 1	🙈 High	Z 25mins	C 28mins	<u>∆</u> ∂ 29%	X 92%	C
	GAVEL21556 BC - Major - Event Monitoring - System Event Raise : 2019-02-14 07:52:49	△ 1	T T	*	1	Medium	28mins	C 23mins	<u>∆</u> ⊘ 40%	X	C
	amless automation of service actions	ſ	Runł		y c k al	X	ation			Aut	omation of complex workflows

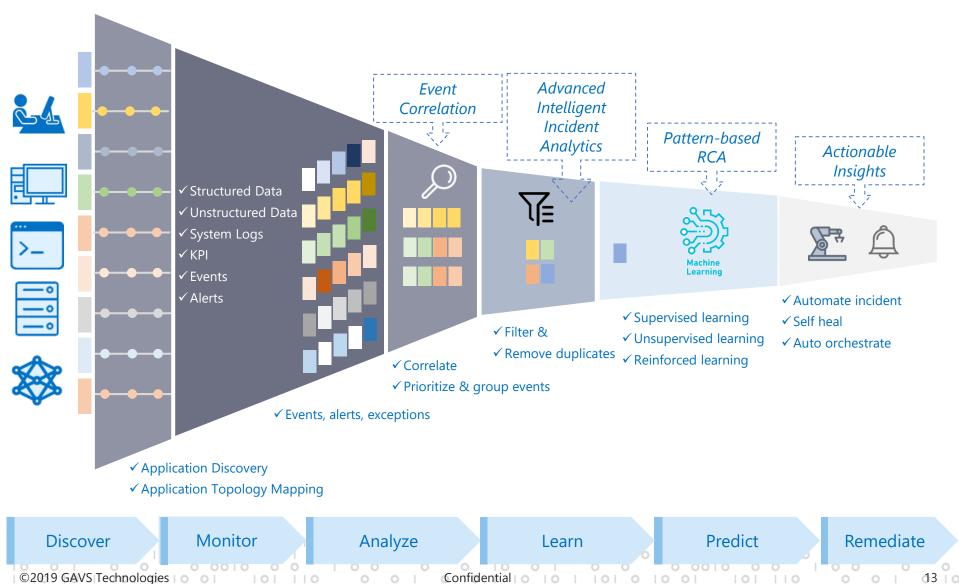
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Digital Infrastructure Operations



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Realizing Zero Incident Enterprise TM



19 GAVS rechnologies

Success Stories

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#1 – New-age ServiceDesk for a Leading Public Relations Firm



Problem Statement



3500+ employees across 67 locations; 65% millennial workforce



8,000-10,000 tickets per month, handled by a team of 30+ Agents



Poor user experience since no alignment between service metrics & business



Prolonged triage process due to roaming profiles

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High Costs





Next generation digital service desk integration with social media outlets

Virtual supervisor for automated triage



Self help and resolution pushed through BOTS

Integrated view of the ticket queue

Benefits

10,000 tickets reduced to 6,000 of which 2,400 are automated 40% reduction in tickets

Service desk team size reduced from 33 to 24

30% reduction in response and resolution times

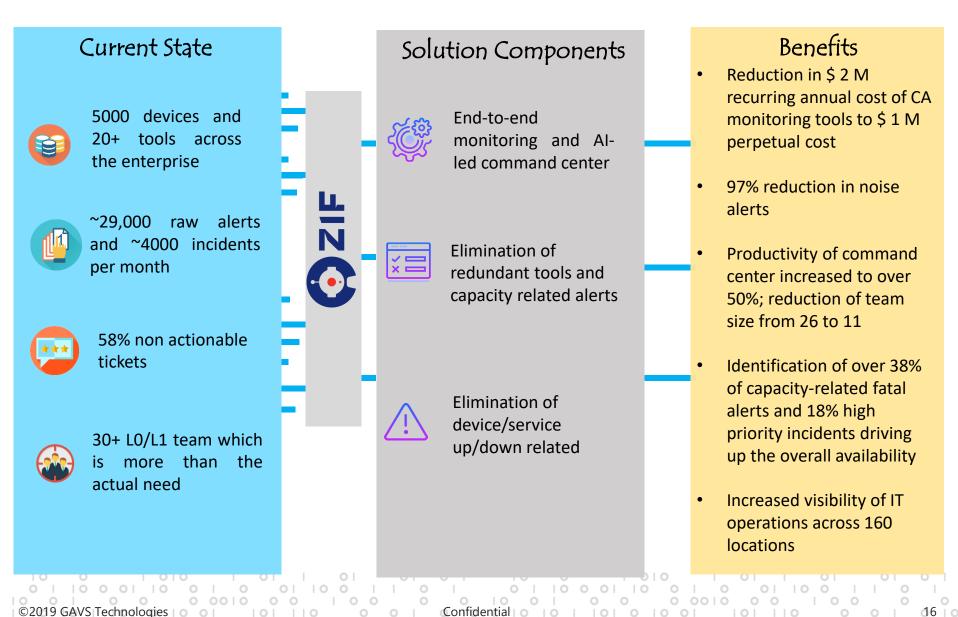


Ticket triage process reduced by 50%

Cost Reduction by over 40%

#2 – Incident Reduction through Predictive Analytics a multinational manufacturer of household cleaning supplies





Challenges



application Each monitored by 15+ monitoring tools



Siloed operations team with no tool integration resulting in no real-time alert correlation and 3-5 days of remediation



support

NOC Reactive

viewable Currently, only by the NOC & Monitoring team and lack of a complete view for **Business** owners



Benefits

360° view of the performance of different infrastructure layers

Near 80% accuracy in Event correlation

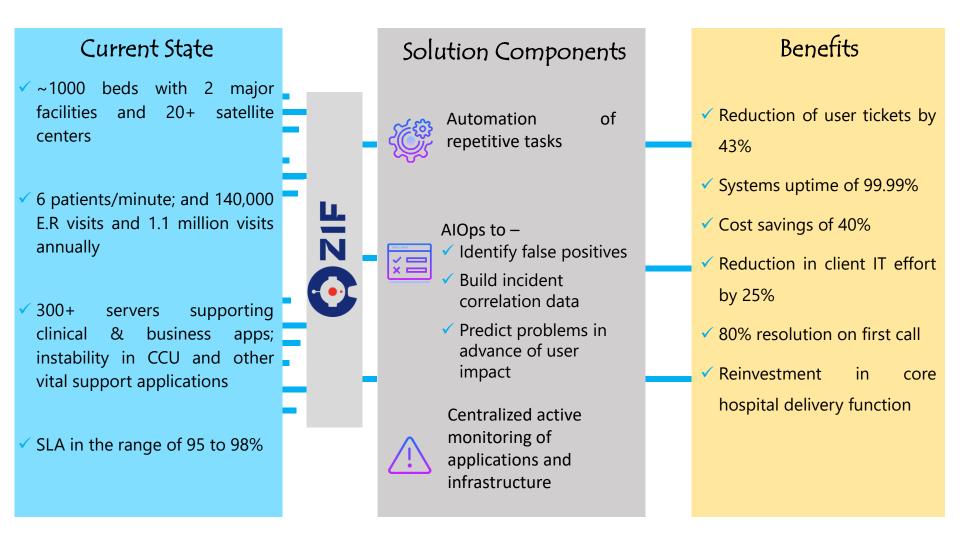
Time for root cause analysis reduced from days to hours

Single dashboard integrating all events and alerts from multiple tools enhancing collaboration across teams

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#4 – Incident Reduction for a major New York Hospital





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ZERO is the new Normal

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