

## Assignment Day 13

### Incident Management

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**Incident management processes** are the procedures and actions taken to respond to and resolve incidents. This includes who is responsible for response, how incidents are detected and communicated to IT teams, and what tools are used.

When designed well, incident management processes ensure that all incidents are addressed quickly and that a certain quality standard is maintained. Processes can also help teams improve their current operations to prevent future incidents.



**There are five standard steps to any incident resolution process. These steps ensure that no aspect of an incident is overlooked and help teams respond to incidents effectively.**

#### **1. Incident Identification, Logging, and Categorization**

Incidents are identified through user reports, solution analyses, or manual identification. Once identified, the incident is logged and investigation and categorization can begin. Categorization is important to determining how incidents should be handled and for prioritizing response resources.

## **2. Incident Notification & Escalation**

Incident alerting takes place in this step although the timing may vary according to how incidents are identified or categorized. Additionally, if incidents are minor, details may be logged or notifications sent without an official alert. Escalation is based on the categorization assigned to an incident and who is responsible for response procedures. If incidents can be automatically managed, escalation can occur transparently.

## **3. Investigation and Diagnosis**

Once incident tasks are assigned, staff can begin investigating the type, cause, and possible solutions for an incident. After an incident is diagnosed, you can determine the appropriate remediation steps. This includes notifying any relevant staff, customers, or authorities about the incident and any expected disruption of services.

## **4. Resolution and Recovery**

Resolution and recovery involve eliminating threats or root causes of issues and restoring systems to full functioning. Depending on incident type or severity, this may require multiple stages to ensure that incidents don't reoccur.

For example, if the incident involves a malware infection, you often cannot simply delete the malicious files and continue operations. Instead, you need to create a clean copy of your infected systems, isolate the infected components, and fully replace systems to ensure that the infection doesn't spread.

## **5. Incident Closure**

Closing incidents typically involves finalizing documentation and evaluating the steps taken during response. This evaluation helps teams identify areas of improvement and proactive measures that can help prevent future incidents.

Incident closure may also involve providing a report or retrospective to administrative teams, board members, or customers. This information can help rebuild any trust that may have been lost and creates transparency regarding your operations.

## ➤ LIFE CYCLE OF INCIDENT MANAGEMENT

This most recent version discusses the 5 steps you should be following throughout an incident management lifecycle:

1. Incident identification
2. Incident logging
3. Incident categorization
4. Incident prioritization
5. Incident response



### 1. Incident Identification and Logging:

Incident Identification is either done via testing (using tools or otherwise), user feedback, infrastructure monitoring, etc.

Logging an incident simply means recording the following info:

- Exact/Appropriate date and time of occurrence.
- Incident title along with type and brief description
- Name of the person who logged the incident and more detailed description with error codes when applicable
- Details of the person assigned to the incident for follow up
- Current Status of the incident
- Attachments including technical discussions, decisions and approvals

### 2. Classification and Prioritization:

Classification of incidents helps us partition them based on their type (software, hardware, service request, etc.) so it makes for easier reporting and analysis. Prioritization helps to identify the order/priority of incidents to be

handled. It depends on the impact, severity and most importantly the Risk Factor.

### **3. Investigation and Analysis**

This step is to better understand the problem so we not only fix it right now, but gather information for preventing from re-occurrence.

### **4. Resolution and Recovery**

Steps are taken to remove the incident and bring the system back to its previous working condition.

### **5. Incident Closure**

The resolution is retested and in case the system is working as intended, the incident is closed.

### **6. Incident Management System**

Incident management can very well be done manually or statically using spread sheets but it is much more effective, dynamic and systematic when done via a tool.

## **TOOLS USED IN INCIDENT MANAGEMENT**

ManageEngine ServiceDesk Plus

Zendesk

HaloITSM

BigPanda

OnPage

NinjaRMM

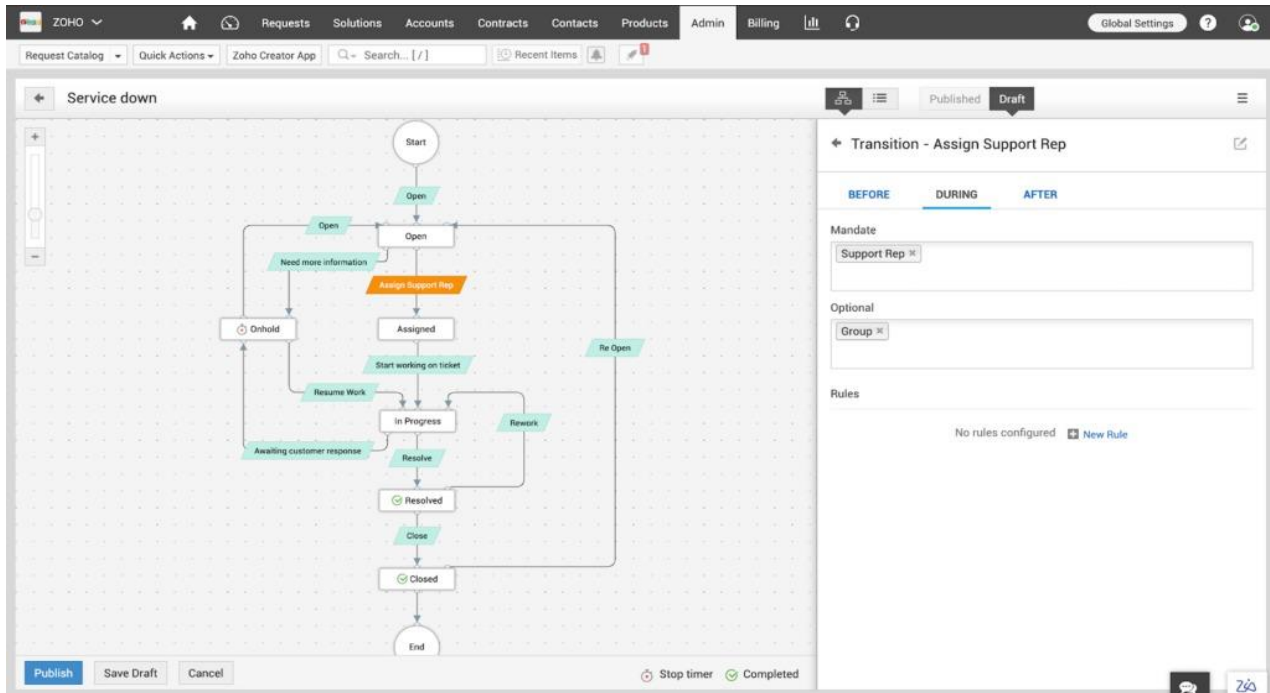
Rundeck

ServiceNow

Issuetrak

Spiceworks

## 1. ManageEngine ServiceDesk Plus – Best for multi-channel incident logging



ServiceDesk Plus is the full-stack ITSM solution from ManageEngine, the enterprise IT management division of Zoho Corporation. ServiceDesk Plus has received Pink Elephant’s ITIL® 4 compatibility certification for its Incident Management practice, meeting 100% of the evaluation criteria.

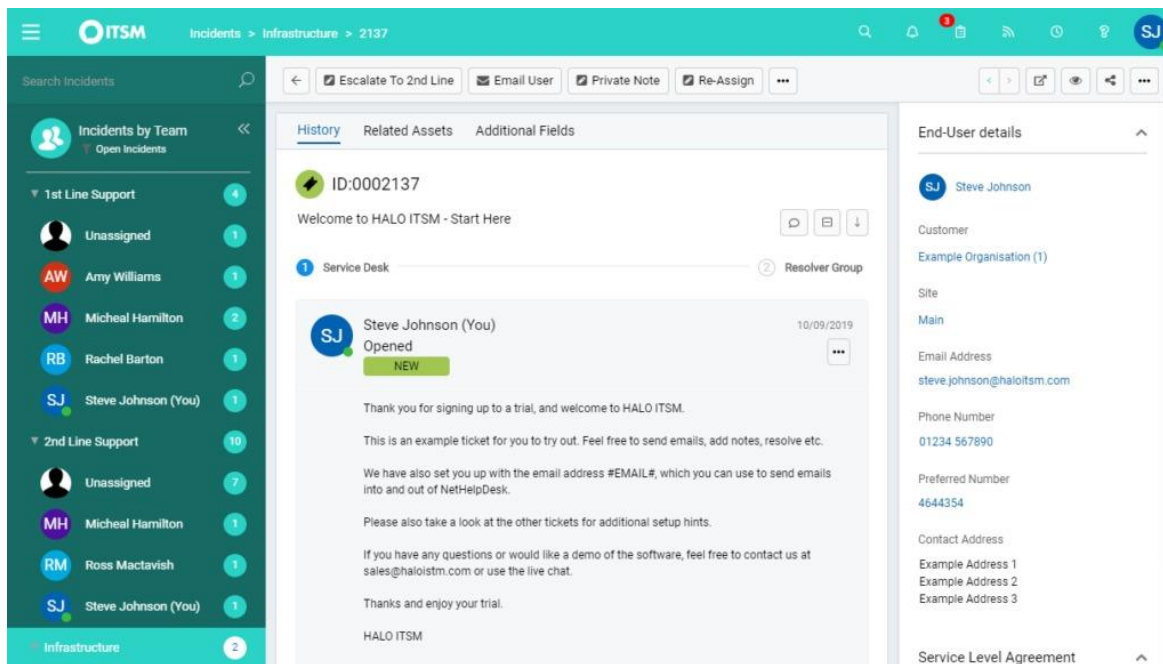
## 2. Zendesk – Best for small to medium businesses

The screenshot shows the Zendesk interface. On the left, a sidebar lists various views such as 'WhatsApp conversations - Assign...', 'Email Tickets', 'Returns' (21 tickets), and 'Tier 1 Support' (930 tickets). The main area displays a list of tickets under the 'Returns' view. A detailed view of ticket #2080 is shown, including the subject 'Hi, could you help me with my new shoes? They don't fit...', the requester 'Peter Tailby', and the status 'PENDING'. The ticket content includes a request for a replacement and a link to the help center page.

ID	Subject	Channel	Ticket form	Requester	Requested	Assignee
#2138	Chat with Visitor 1570139948	Web form	Returns	Jane Dough	Oct 03	Imaadh S
#2137	return policy	Web form	General Request	Courtney Barnett	Oct 03	-
#2132	return policy	Web form	General Request	Courtney Barnett	Oct 03	-
#2092	Return (Bergman)	Web Widget	Returns	Sarah Johnson	Sep 25	-
#2080	Hi, could you help me with my new shoes? They don't fit...	WhatsApp	General Request	Peter Tailby	Sep 24	Peter Tai
#1923	Hi, could you help me with my new shoes? They don't fit. I need a replacement.	WhatsApp	General Request	JP	Sep 06	Daniel Rl
#1733	Hi, could you help me with my new shoes? They don't fit. I need a replacement.	WhatsApp	General Request	Mariana Portela	Aug 07	Daniel Rl
#1711	Hi, could you help me with my new shoes? They don't fit. I need a replacement.	WhatsApp	General Request	Renato Rojas	Aug 05	Abhi Bas
#1532	Latest comment	WhatsApp	General Request	Sample customer	Jul 11	Santhosh
#1441	Latest comment	WhatsApp	General Request	Phillip Jordan	Jun 24	-
#1306	To learn more about our returns policy, please visit our help center page here: https://z3n-showcase.zendesk.com/hc/en-us/categories/360000313031>Returns-Exchanges	WhatsApp	General Request	Franz Decker	May 28	-
#1150	Latest comment	WhatsApp	General Request	John Customer	Apr 08	-
#1149	Can I return my shoes?	Web Widget	Returns	Emily Customer	Apr 08	-
#1142	Return	Web Widget	Returns	Jane Dough	Apr 04	-

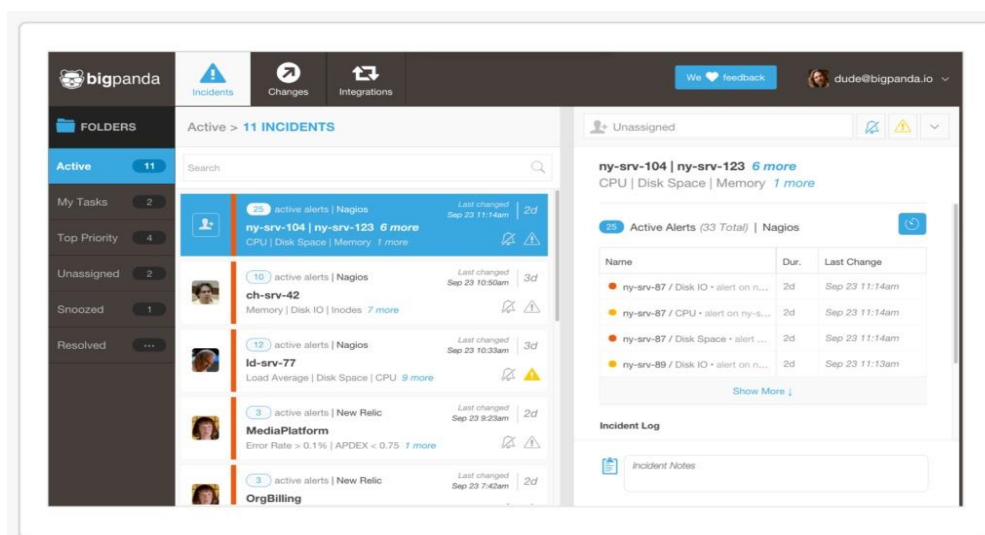
The Zendesk Support Suite allows your team to work seamlessly with a single set of tools and processes that work the same on any channel: email, chat, voice, and even social messaging apps like Facebook, WhatsApp, Twitter, WeChat, and more.

### 3. HaloITSM – Best for Enterprises



HaloITSM is a leading IT service management (ITSM) solution that can cover all of your service management needs, including incident management and enterprise service management. This award-winning software boasts customers like Siemens, The University of Cambridge, NHS, and Suzuki.

### 4. BigPanda – Best for machine learning and autonomous operations



BigPanda's autonomous operations platform can help capture alerts, changes, and topology data from all your tools and uses machine learning to detect problems and identify their root cause in real-time so that users have fewer outages and faster resolution.

### 5. OnPage – Best for usability and customer support



OnPage is the industry-leading HIPAA to secure an incident alert management system. Built around the incident resolution lifecycle, the platform enables organizations to get the most out of their digitization investments, ensuring that sensors and monitoring systems and people have a reliable means to escalate abnormality notifications to the right person immediate