



SECURITY PROJECT #02

REPORT No.2

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SECURITY MONITORING WITH WAZUH AND ELASTIC STACK INTEGRATION

Elastic Login Screen: Accessing Elastic in web browser by using username and password that was generated during the installation. **(Fig: 01)**

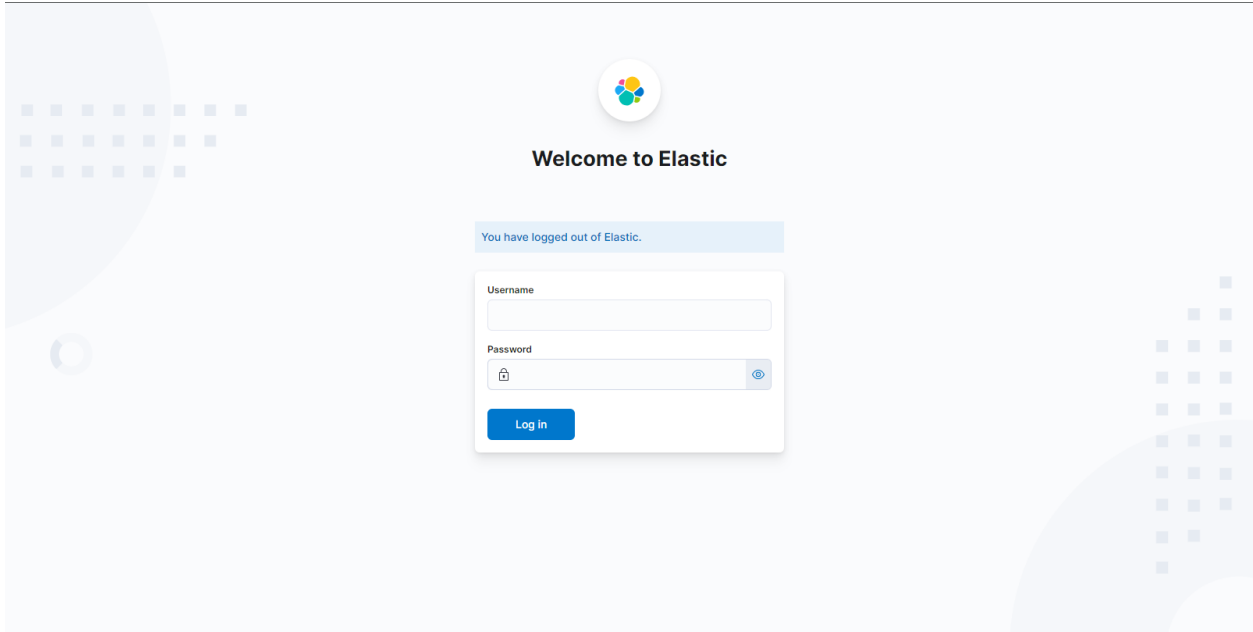
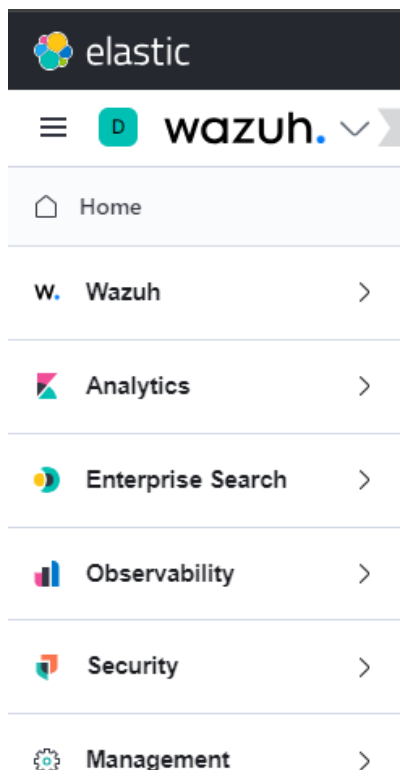


Fig: 01



Wazuh Interface in Elastic:

This shows that wazuh is successfully integrated with the ELK stack **(Fig: 02)**

Fig: 02

Wazuh Dashboard Overview: Displays agent status, security events, and regulatory compliance monitoring. (Fig: 03)

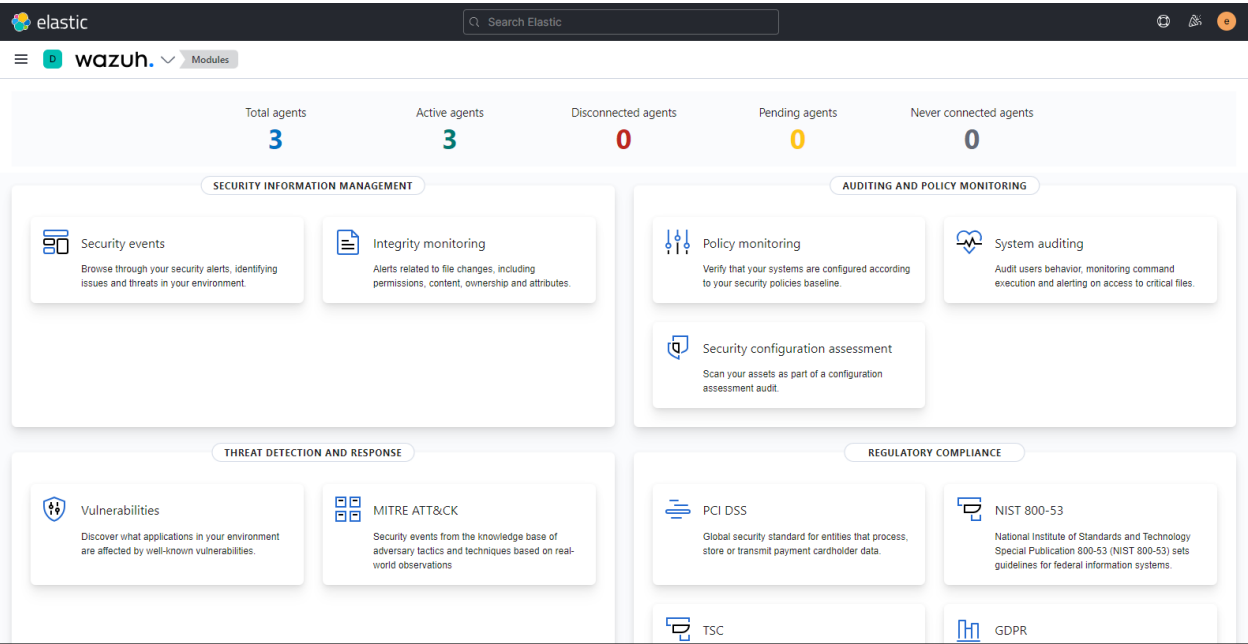


Fig:03

Wazuh Agent Dashboard

This dashboard shows the status, details, and evolution of 3 active Wazuh agents. (Fig: 04)

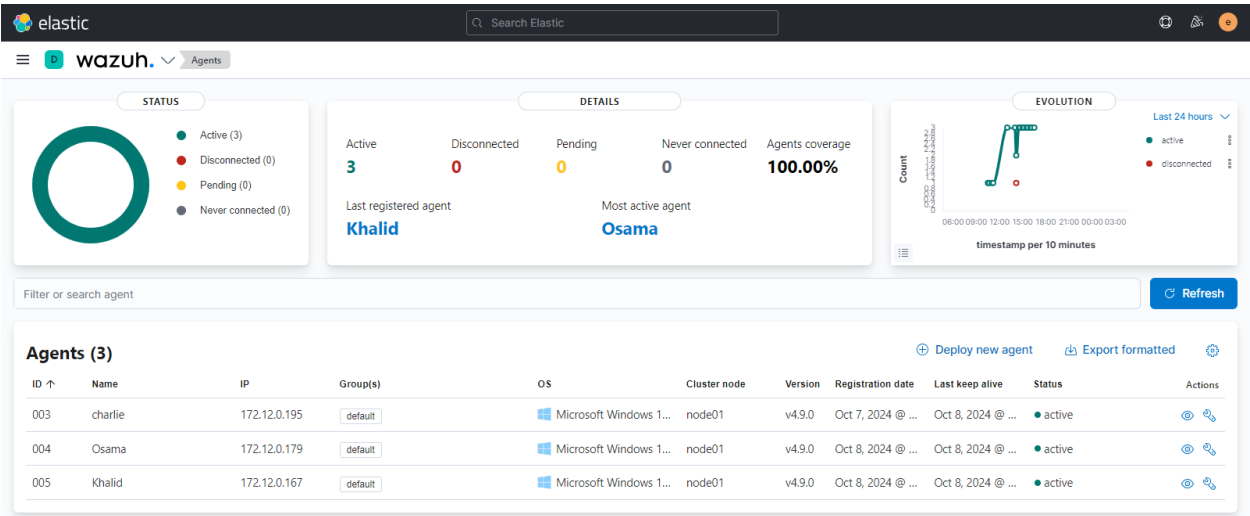


Fig:04

Wazuh Alerts Overview: Real-time monitoring of security alerts in Elastic with detailed event logs by using the Kibana . **(Fig: 05)**

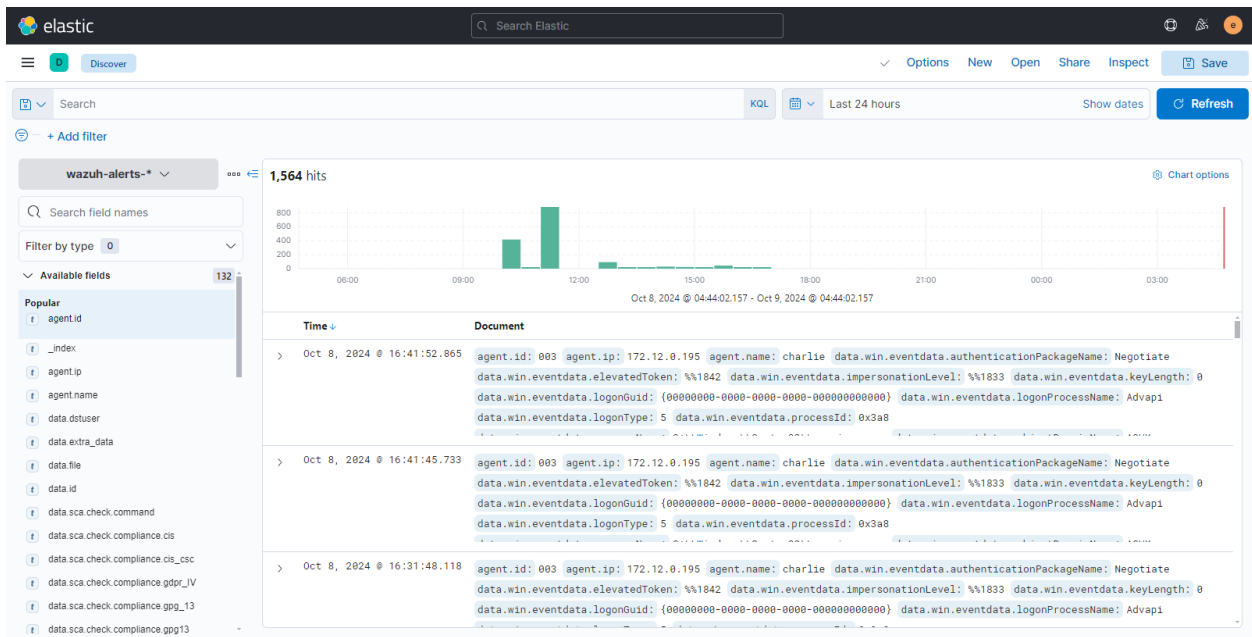


Fig 05

Log Detail: this is log data page, featuring a table with various columns and rows containing information about events or activities and details of the logs . **(Fig: 06 (a) & (b))**

The screenshot shows a detailed log entry in the Elastic Kibana interface. The table lists various fields and their values, including agent information and event data. Red circles highlight the agent.id, agent.ip, and agent.name fields, with an arrow pointing to a text box that says "These shows the id, Ip and name of agent window".

Field	Value
@timestamp	Oct 8, 2024 @ 16:41:52.865
agent.id	003
agent.ip	172.12.0.195
agent.name	charlie
data.win.eventdata.authenticationPackageName	Negotiate
data.win.eventdata.elevatedToken	%%1842
data.win.eventdata.impersonationLevel	%%1833
data.win.eventdata.keyLength	0
data.win.eventdata.logonGuid	{00000000-0000-0000-0000-000000000000}
data.win.eventdata.logonProcessName	Advapi
data.win.eventdata.logonType	5
data.win.eventdata.processId	0x3a8
data.win.eventdata.processName	C:\Windows\System32\services.exe
data.win.eventdata.subjectDomainName	ACUK
data.win.eventdata.subjectLogonId	0x3e7

Fig: 06 (a)

Search Elastic

Discover

wazuh-alerts-4.x-2024.10.08#Xn3va5lBoCGwczH5jvOQ

data.win.eventdata.subjectDomainName	ACUK
data.win.eventdata.subjectLogonId	0x3e7
data.win.eventdata.subjectUserName	CP-AKT-002907\$
data.win.eventdata.subjectUserSid	S-1-5-18
data.win.eventdata.targetDomainName	NT AUTHORITY
data.win.eventdata.targetLinkedLogonId	0x0
data.win.eventdata.targetLogonId	0x3e7
data.win.eventdata.targetUserName	SYSTEM
data.win.eventdata.targetUserSid	S-1-5-18
data.win.eventdata.virtualAccount	%%1843
data.win.system.channel	Security
data.win.system.computer	CP-AKT-002907.acuk.edu.pk
data.win.system.eventID	4624
data.win.system.eventRecordID	205069
data.win.system.keywords	0x8020000000000000

Event ID 4624 represents a successful logon in Windows

Event ID 4624 represents a successful login in Windows

Fig: 06 (b)

Data visualization Dashboard: A pie chart visualization [data visualization](#) showing the distribution of data points at different hours (**Fig: 07**)

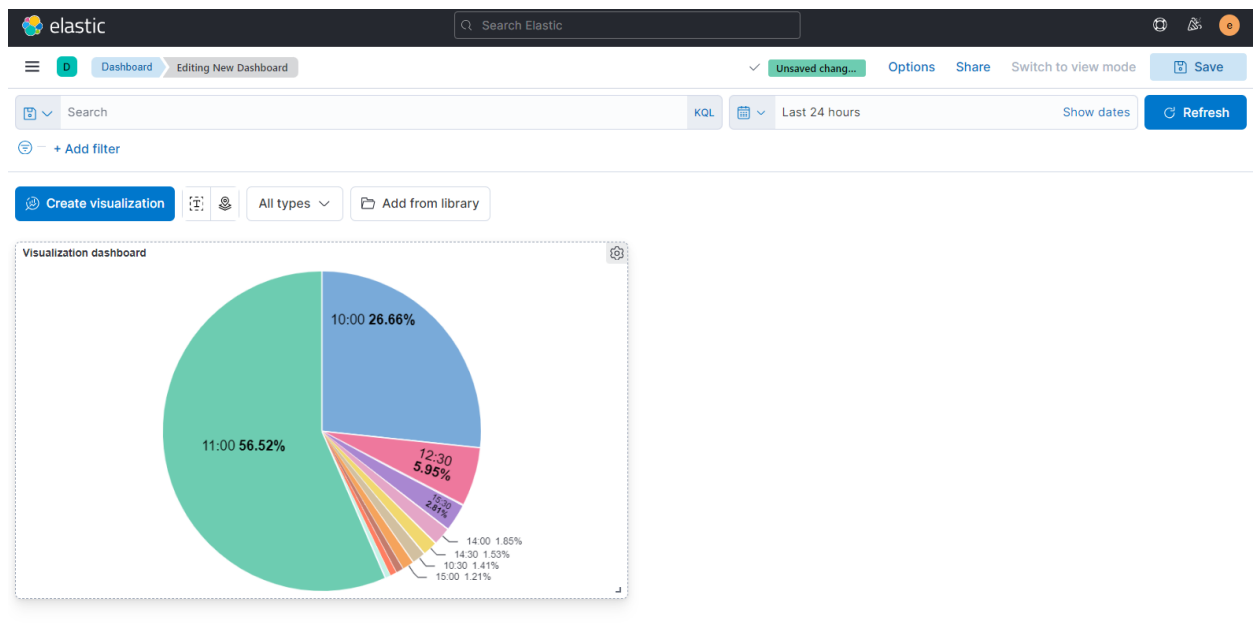


Fig: 07