

Application and Network Monitoring with Zabbix

Duration: 3 Days (8Hours per day)

Hands-On Format: This hands-on class is approximately 80/20 lab to lecture ratio, combining engaging lecture, demos, group activities and discussions with comprehensive machine-based practical programming labs and project work.

- Provisioning a Linux to Install Zabbix Server
- Download and Install the Zabbix Repository
- Install Zabbix Server, Frontend and Agent
- Create the Initial Database
- Log in and Configure Zabbix Server Front End
- Configure a Domain Name for the Zabbix Server
- Install Zabbix Agent on Same Network as Zabbix Server
- Install Zabbix Agent on CentOS on a Different Cloud Provider
- Zabbix Agent Auto Registration
- Install and Configure Zabbix Proxy
- Configure Zabbix Agent on the Zabbix Proxy
- Zabbix Server Health
- Zabbix Proxy Health
- Enable PSK Encryption for Zabbix Agents
- Enable PSK Encryption for Zabbix Proxy
- Creating Host Items
- Creating Host Triggers
- Set Up the Email Media Type
- Creating Host Graphs
- Convert Host Items, Triggers and Graphs To A Template
- Template Dashboards
- Monitoring Dashboards
- Creating a Network Map
- Reading Window Event Logs
- Item Preprocessing with Regex
- Item Preprocessing with JavaScript
- Item Cloning to Create a PCI DSS Windows Template
- Importing Templates
- Slack Media Type
- Telegram Media Type
- Customizing Trigger Alert Messages with Macros
- Add Disk Space History Graph to OS Linux Template
- Trigger Prototypes and Triggering within a Range
- Configure Trigger 'OK Event Generation' to Minimize Alert Flapping
- Remote HTTP Monitoring with the HTTP Agent Item
- Log File Monitoring – NGINX Proxy HTTP Status Codes
- Dependent Items
- Execute Bat File on Remote Windows Host with Zabbix Agent
- Execute Python Script on Remote Linux Host with Zabbix Agent
- Execute a Shell Script using Zabbix Agent
- User Defined Parameters
- Administration Scripts
- Execute PowerShell Scripts to Check Windows Updates
- Calculated Items
- Creating Custom Low level Discovery Rules
- Setup SNMP Hosts in Zabbix
- Query SNMP Hosts using OIDs
- Query SNMP Hosts using MIBs
- Set up a Network Discovery Rule and Action to Auto Configure SNMP Devices
- Setup SNMP Traps
- Triggers on SNMP Traps



Using the Zabbix Get Command
Zabbix Sender and Trapper
Setup MySQL Monitoring
Users, Groups and Roles
Grafana Zabbix Plugin
Prometheus Node Exporter