**SDWAN - zWAN**

zWAN Director - Release Notes

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# **Component Information**

|  |  |
| --- | --- |
| **Project Tag Name** | **sdwan** |
| **Git Commit** | b6d3edbb |

# **Release Candidates**

1. zWAN Director Tag
2. zWAN Director - Release Notes

# Supported Devices

* NA

# System Requirements

**zWAN Server requirements**

* Standalone Server Configuration
  + Single server with the below configuration is recommended
    - Ubuntu Server/Desktop OS version 22.04
    - Storage - 256GB
    - RAM - 64GB
    - CPU - 16 cores
    - Two to Three 1 Gig Network Interfaces
* HA Servers Configuration
  + Three servers with the below configuration are recommended
    - Ubuntu Server/Desktop OS version 22.04
    - Storage - 256GB
    - RAM - 64GB
    - CPU - 16 cores
    - Two to Three 1Gig Network Interfaces

# FTP PATH

QA Qualified Director binaries can be found in the below location

FTP: USSFTP.AMZETTA.COM

Username: zWAN

Password: 0WGtbTrg

PATH : /sdwan-zwan-build/Production Team/Director

# GIT PATH

Documents and test reports can be found in the below location.

<https://gitlab.amzetta.com/sdwan/zwan-doc/-/tree/master/Production%20Team>

# Product Features

zWAN is Amzetta’s implementation of SDWAN solution. zWAN is targeted towards small to midsize enterprises that are looking to incorporate SDWAN into their networking infrastructure.

Amzetta’s zWAN is composed of two major parts

* A centralized management/orchestration server (or cluster of servers) director is responsible for the management plane and certain control plane activities.
* Edge controller management and configuration with Director.

# SALIENT FEATURES

* Standalone and HA Support.
* Edge Controller management by zero touch provisioning and secure shell
* Web Client of Edge Controller
* Monitoring and Reporting
* CPE Backup and Restore
* Auto Policy and On Demand Policy
* Topology support – Hub and spoke, hybrid topologies
* Firmware update of Edge Controller
* Multi-tenancy
* Director Backup and Restore
* System Metrics for Director Server
* Debug Dump of Director
* External Syslog and ipfix
* zID Authentication
  + Active Directory and LDAP
  + Radius Server based authentication
  + Tacacs Server based authentication
  + Google Authentication
  + Mullti-factor authentication
* Clustered Management and Orchestration Servers
  + Failover, load balancing.

|  |  |  |  |
| --- | --- | --- | --- |
| Feature | | Description | Status |
| Deployment |  |  |  |
|  | Standalone | zWAN Director can be installed in Ubuntu Server / Desktop OS  <https://gitlab.amzetta.com/sdwan/zwan-doc/-/blob/master/Deployment/DeploymentUserGuide.md> |  |
| HA Deployment | zWAN Director can be installed in Ubuntu Server / Desktop OS  <https://gitlab.amzetta.com/sdwan/zwan-doc/-/blob/master/Deployment/DeploymentUserGuide.md> |  |
| Offline Deployment | zWAN Director can be installed in Ubuntu Server / Desktop OS which has no internet  <https://gitlab.amzetta.com/sdwan/zwan-doc/-/blob/master/Deployment/OfflineTunnel/OfflineTunnel.md> |  |
| Cloud Deployment | NA | X |
|  | Standalone Update |  |  |
|  | HA Update |  |  |
|  | Offline Update |  |  |
|  | | | |
| Onboarding |  | <https://gitlab.amzetta.com/sdwan/zwan-doc/-/tree/master/Onboarding> |  |
|  | Zero Touch Provisioning |  |  |
|  | Edge controller Secure Shell |  |  |
|  | | | |
| Edge Controller |  |  |  |
| Group | Group based list |  |  |
|  | On demand Reporting |  |  |
|  | Group Logs |  |  |
| List | Web Client |  |  |
|  | EC Logs |  |  |
|  | On Demand Reporting |  |  |
|  | Reboot EC |  |  |
| Site Availability | Site Status |  |  |
|  | Tunnel Status |  |  |
|  | | | |
| Backup And Restore |  | <https://gitlab.amzetta.com/sdwan/zwan-doc/-/tree/master/CPE%20Backup%20and%20Restore> |  |
|  | EC Backup |  |  |
|  | EC Restore |  |  |
|  | | | |
| Users | Users |  |  |
| Actions | Centralized Actions |  |  |
| Policies | Auto Policy |  |  |
|  | On Demand Policy |  |  |
| Topology |  |  |  |
| Firmware Update | Firmware Update |  |  |
| SMTP Configuration | Outlook  Gmail |  |  |
|  | | | |
| zID Authentication |  | <https://gitlab.amzetta.com/sdwan/zwan-doc/-/tree/master/Zid> |  |
|  | Active Directory |  |  |
|  | LDAP |  |  |
|  | Radius Server |  |  |
|  | Tacacs Server |  |  |
|  | Google |  |  |
|  | Two-factor authentication |  |  |
|  | | | |
| MSP |  |  |  |
|  | Multi tenancy |  |  |
|  | User Management |  |  |
|  | Director Backup and Restore | <https://gitlab.amzetta.com/sdwan/zwan-doc/-/tree/master/Director%20Backup%20and%20Restore> |  |
|  | Debug Dump |  |  |
|  | Firmware update Configuration |  |  |
|  | Remote NMS | <https://gitlab.amzetta.com/sdwan/zwan-doc/-/tree/master/Remote%20NMS> |  |
|  | Audit Log Configuration |  |  |
| System Metrics |  |  |  |
|  | Director Server |  |  |
|  | Analytics Server |  |  |
|  | | | |
| Analytics |  |  |  |
| Alerting |  | https://gitlab.amzetta.com/sdwan/zwan-doc/-/tree/master/Alerting |  |
|  | Basic Configuration |  |  |
|  | Advanced Configuration |  |  |
| Overall Dashboard |  |  |  |
|  | Overview | Edge controller Bandwidth |  |
|  |  | Client /LAN PC Bandwidth |  |
|  |  | Network Overview |  |
|  | Top Apps/ Domains | App/domain view |  |
|  |  | App /Protocol View |  |
|  |  | LAN PC view |  |
|  |  | Services |  |
|  |  | Ingress (Downloads) |  |
|  |  | Egress (Uploads) |  |
|  | Threats |  |  |
|  | GeoIP |  |  |
|  | Traffic Details |  |  |
|  | Flow Records |  |  |
|  | Bandwidth |  |  |
| Overall Statistics |  |  |  |
| Overall | Data |  |  |
|  | Packets |  |  |
|  | Error |  |  |
|  | Logs and Events |  |  |
|  | Global Applications |  |  |
|  | Audit Logs |  |  |
| Edge Controller |  |  |  |
|  | Data |  |  |
|  | Packets |  |  |
|  | Error |  |  |
|  | Logs and Events |  |  |
|  | Link Status |  |  |
|  | Global Applications |  |  |
|  | | | |
| Reporting |  |  |  |
| On Demand | System |  |  |
|  | Interface |  |  |
|  | TWAMP |  |  |
|  | Application |  |  |
|  | Firewall Log |  |  |
|  | Log |  |  |
|  | Bandwidth |  |  |
|  | Site Status |  |  |
|  | Tunnel Status |  |  |
| Scheduled |  |  |  |
| Overall |  |  |  |
|  | System |  |  |
|  | Interface |  |  |
|  | TWAMP |  |  |
|  | Application |  |  |
|  | Firewall Log |  |  |
|  | Log |  |  |
|  | Bandwidth |  |  |
|  | Site Status |  |  |
|  | Tunnel Status |  |  |
| Group |  |  |  |
|  | System |  |  |
|  | Interface |  |  |
|  | TWAMP |  |  |
|  | Application |  |  |
|  | Firewall Log |  |  |
|  | Log |  |  |
|  | Bandwidth |  |  |
|  | Site Status |  |  |
|  | Tunnel Status |  |  |
| Edge Controller |  |  |  |
|  | System |  |  |
|  | Interface |  |  |
|  | TWAMP |  |  |
|  | Application |  |  |
|  | Firewall Log |  |  |
|  | Log |  |  |
|  | Bandwidth |  |  |
|  | Site Status |  |  |
|  | Tunnel Status |  |  |
|  | | | |
| Edge Controller |  |  |  |
|  | Overview |  |  |
|  | Dashboard | Edge controller Bandwidth |  |
|  |  | Client /LAN PC Bandwidth |  |
|  |  | Network Overview |  |
|  | Top Apps/ Domains | App/domain view |  |
|  |  | App /Protocol View |  |
|  |  | LAN PC view |  |
|  |  | Services |  |
|  |  | Ingress (Downloads) |  |
|  |  | Egress (Uploads) |  |
|  | Threats |  |  |
|  | GeoIP |  |  |
|  | Traffic Details |  |  |
|  | Flow Records |  |  |
|  | Bandwidth |  |  |
| Edge Controller Statistics |  |  |  |
|  | System |  |  |
|  | Interface |  |  |
|  | Logs and Events |  |  |
|  | Global Applications |  |  |
|  | Link Status |  |  |
|  | Signal Quality |  |  |
|  | TWAMP |  |  |
|  |  |  |  |

# New Features / Enhancements

* NA

# Bug Fixes

* Initial Release

# Known Issues

29193-Quick Select Tabular is Disappearing When Maximum Supported Character is Entered In Range Field and Apply

28464-No data is shown for CPU & Memory Utilization time series in pdf report generated for 3 days.

25883-The request for this panel failed in service bits chart on dashboard page.

29223-Chart data getting flickering when mouse focus on the values in top application chart under bandwidth report.

29160-Failed to delete the destination error is shown even after destination is deleted.

29077-Product name in Report is not visible and header/footer for the report is not looking good.

25019-Able to create email sender with negative port numbers.

25018-Remove email group does not prompt any confirmation or success message.

25017-Manage email group page gets weird when group name have more characters and hence needs character restriction.

25010- Delete destination does not have success message.

24997-No success message is shown for adding destination

24984-No success message is shown for creating trigger

24951-Able to delete trigger and its actions that are part of alerting without any confirmation.

25894-Message "Aborted" showing at syslog logs upon double click on refresh icon under system -> Logs -> Syslog

25027-Trigger functionality is not working as trigger condition is able to set with negative values.

25011-Delete button is pointed towards next destination after deleting a destination.

25009- Destination name field should have character limitation

24987-Delete destination confirmation pop up message is big and not looking good.

24962-Monitor name is not fully displayed when created with more characters.

24960-Update monitor does not show any success message.

# Limitations

* In HA, Two servers should be up always.
* In HA, Minimum 20 secs will be taking to shift the Host Keepalived incase if any of the k3s, openvpn or elk vm is not running.
* At first login of third party users like Active Directory, LDAP, Radius, Tacacs and google, it will show permission error and need to assign the user permission from super admin user.
* To manage edge controller with external public fqdn which is not registered in public, host entry needs to be added in /etc/hosts in k3sVM and Edge controller

# Notes & Recommendations

* NA