

# Working with the server

- Architecture
  - Server core (WCS Core)
  - Main commands
- Core settings
  - Settings file flashphoner.properties
  - Settings file loadbalancing.xml
  - Settings file log4j.properties
  - Settings file watchdog.properties
  - Settings file watchdog.log4j.properties
  - Settings file rtsp.auth
  - Key store wss.jks
  - File flashphoner.serverid
  - Certificate myflashphoner-ca
  - WCS.version
  - Settings file wcs-core.properties
  - SDP settings files
  - Settings file database.yml
- SSL certificates management
  - Websocket SSL
  - HTTPS
  - Receiving and importing Let's Encrypt SSL certificate
- Logging
  - WCS Core logs
- Monitoring
  - Using SSH tunnel
  - Connecting from JConsole
  - Connecting from Visual VM
  - Connecting from Java Mission Control
  - WCS integration to Prometheus
  - WCS to Zabbix integration
  - Load and resource usage information
  - Information about errors and configuration parameters
  - Stream parameters monitoring with REST API
  - Server health check
  - Centralized stream statistics and CDN events collection to MySQL DB
  - Centralized server data logging to ClickHouse DB
- Command line interface
  - Using and accessing command line
  - Access restriction from certain interfaces
  - Complete list of CLI commands
  - Public key authorization
  - Users management
  - Applications management
  - Server settings management
- CLI v 2
  - Using and accessing CLI v 2
  - Access restriction to CLI v2 from certain interfaces
  - Complete list of CLI v 2 commands
  - Streams management
  - Connections management
  - CDN node management
- Network traffic analysis
  - Websocket
  - REST / HTTP
  - SIP
  - WebRTC
  - RTMFP
  - RTP
  - RTSP / RTP
  - RTMP
  - HLS
- Server domain name support as external address
- HTTP interfaces access restriction
- Websocket connections restriction by domain
- Stream publishing and playback restriction by name
- Websocket client URI configuration
- Media ports management
- Server ports configuration to accept client connections
- Diagnostics and troubleshooting
  - Preparing an error report
  - Possible problems and how to solve them
  - Accessory tools
  - How to get license number
  - CPU load investigation
  - Stack trace logging
  - DNS testing and caching
- Server tuning recommendations
- Memory management in Java
- Server performance testing

- Before moving to production